| Project | Catalog # | Туре | |
|-------------|-----------|------|--|
| Prepared by | Notes | Date | |



HALO Commercial

HC4 | HM4 | 41/41PS

4-inch LED downlight and wall wash

Typical Applications

Office • Healthcare • Hospitality • Institutional • Mixed-Use/Retail

Interactive Menu

- Order Information page 2
- Product Specifications page 4
- Photometric Data page 5
- Energy & Performance Data page 8
- Connected Systems page 10
- Product Warranty

Product Certification













Product Features





Control Compatibility

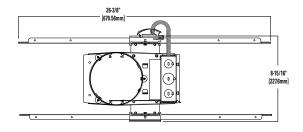




Top Product Features

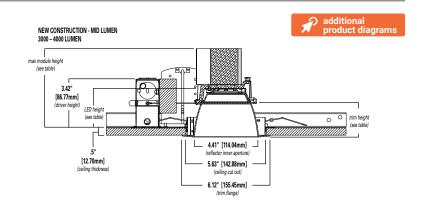
- New construction/remodel series; 500 to 6,000 lumens
- · Narrow, Medium and Wide distributions; Wall wash with rotatable linear spread lens
- 2700K, 3000K, 3500K, 4000K and 5000K CCT; 80 or 90 CRI
- Universal voltage 120V-277V; Standard 0-10V driver dims to 1%
- · Mounting frame converts to remodel that installs from below the ceiling
- Quick Spec emergency backup mounting frames fast delivery option

Dimensional and Mounting Details



Mid Lumen (3000 - 4000 Lumens)

| Distribution | Max. Module Height | Trim Height | LED Height |
|--------------|-----------------------|-------------|------------|
| Narrow | 5.6" | 2.5" | 2.9" |
| Medium | 5.7" | 2.6" | 3.0" |
| Wide | 5.5" | 2.4" | 2.8" |
| Baffle | 5.5" | 2.4" | 2.8" |



Mounting Frame Order Information

Sample Number: HC420D010REM7 - HM40525930 - 41MDC

A complete luminaire consists of a housing frame, LED module, and reflector (ordered separately)

| Mounting Frame | Lumens | Driver Options | Factory Installed Emergency & Connected Lighting Options | Accessories (Order & Install Separately) |
|--|--|--|---|--|
| HC4 = 4" new construction downlight housing HC4CP = 4" new construction housing, Chicago Plenum - CCEA compliant | 05 = 500 lm 07 = 750 lm 10 = 1000 lm 15 = 1500 lm 20 = 2000 lm 25 = 2500 lm 30 = 3000 lm 35 = 3500 lm 40 = 4000 lm 45 = 4500 lm 55 = 5500 lm 70 60 = 6000 lm | D010=UNV 120-277V, 50/60Hz, 0-10V 1%-100% dimming at 120-277V on 0-10V controls Canada Option 500-4000 lumens: D010347 = 347VAC 50/60Hz 0-10V 1%-100% dimming. For 500, 750, 1000, 1500, 2000, 2500, 3000, 3500, 4000lm models only ⁽¹⁾ Canada Option 4500-6000 lumens: D010X347 = step down transformer factory installed (with standard "D010" 120V-277V LED driver). For 4500, 5000, 5500, 6000lm models only ⁽¹⁾ DLV = Distributed Low Voltage dimming driver 1%-100%, 1000-4000 lumens only. For use with DLVP system only, refer to DLVP specifications for details. ⁽¹⁾ | REM7 = 7 watt emergency battery pack with remote test / indicator light, use with D010 only (1) (2) (6) REM14 = 14 watt emergency battery pack with remote test / indicator light, use with D010 only (1) (2) (6) IEM7 = 7 watt emergency battery pack with integral test / indicator light, use with D010 only (1) (2) (6) (10) IEM14 = 14 watt emergency battery pack with integral test / indicator light, use with D010 only (1) (2) (6) (10) B0D7ST = 7.5 watt Bodine self-test emergency battery pack with remote test / indicator light, use with D010 only (1) (2) (6) (10) WTA = Factory WaveLinx PR0 Tilemount Sensor Kit (6) WTK = Factory WaveLinx LITE Tilemount Sensor Kit (8) WPN = WaveLinx PR0 Wireless Node without Sensor (11) WLN = WaveLinx LITE Wireless Node without Sensor (12) REMV7 = 7 watt emergency battery pack with remote test / indicator light, use with DLV only (1) (2) (8) (8) IEMV7 = 7 watt emergency battery pack with remote test / indicator light, use with DLV only (1) (2) (8) (8) IEMV7 = 7 watt emergency battery pack with integral test / indicator light, use with DLV only (1) (2) (8) (10) IEMV14 = 14 watt emergency battery pack with integral test / indicator light, use with DLV only (1) (2) (8) (12) IEMV14 = 14 watt emergency battery pack with integral test / indicator light, use with DLV only (1) (2) (8) (12) | HB128APK = L channel hanger bar, 26", pair (replacement) RMB22 = Adjustable wood joist mounting bars, pair, extend to 22" long H347 = 347 to 120V step down transformer, 75VA H347200 = 347 to 120V step down transformer, 200VA WTA = Field WaveLinx PRO Tilemount Sensor Kit (9) WTK = Field WaveLinx LITE Tilemount Sensor Kit (9) |
| Notes | Notes | Notes | Notes | Notes |
| | (7) Marked Spacing: Center to Center of Adjacent Luminaires = 36" Center of Luminaire to Building Member = 18" Minimum overhead = 0.5 | (1) Not available with CP models | (1) Not available with CP models (2) Not available with D010347 (347V models) (3) Utus for U.S. only (4) WTA = WaveLinx tilemount sensor kit for daylight dimming, PIR motion sensing, and optional RUTS - Real Time Location Services, use with D010 only (Refer to WaveLinx specifications) (5) WTK = WaveLinx LITE tilemount sensor kit for daylight dimming, PIR motion sensing, use with D010 only (Refer to WaveLinx LITE specifications) (6) Emergency battery backup options are Non-IC only, and rated for a minimum starting temperature of 0°C (10) IEM option requires compatible IEM reflector or baffle trim. See Trim Ordering below. (11) WPN = WaveLinx PRO wireless node provides luminaire-level control with scene and zone configuration without an integrated sensor; Connects wirelessly with daylight dimming sensor and PIR motion sensor if desired. Use with 0-10V driver only, Not compatible with 347V or Chicago plenum. (Refer to WaveLinx PRO specifications.) (12) WLN = WaveLinx LITE wireless node provides luminaire-level control with seen and zone configuration without an integrated sensor; Connects wirelessly with daylight dimming sensor and PIR motion sensor if desired. Use with 0-10V driver only, Not compatible with 347V or Chicago plenum. (Refer to WaveLinx LITE specifications.) | (4) WTA = WaveLinx PRO tilemount sensor kit for daylight dimming, PIR motion sensing, and option- al RLTS - Real Time Location Services, use with D010 only. (Refer to WaveLinx PRO specifications.) (5) WTK = WaveLinx LITE tilemount sensor kit for daylight dimming, PIR motion sensing, use with D010 only. (Refer to WaveLinx LITE specifications.) |

Quick Spec Emergency Mounting Frame Order Information

Sample Number:

Quick Spec Emergency Mounting Frame: RR-HC420D010REM7

LED module and reflectors are ordered separately

Order separately: LED Module: HM40525835 | Reflector. 41MDC

Select from the Quick Spec Mounting Frame ordering information to receive the **Fast Delivery** option for the frame.

| Quick Spec Code | Mounting Frame | Lumens | Driver Options | Factory Installed Emergency Options | Accessories (Order & Install Separately) |
|---------------------------------------|--|--|--|---|--|
| RR = East Region BRR = West Region | HC4 = 4" new construction downlight housing | 10 = 1000 lm 15 = 1500 lm 20 = 2000 lm 30 = 3000 lm 40 = 4000 lm | D010 =UNV 120-277V, 50/60Hz, 0-10V 1%-100% dimming at 120-277V on 0-10V controls | REM7 = 7 watt emergency battery pack with remote test / indicator light, use with D010 only ⁽²⁾ (6) REM14 = 14 watt emergency battery pack with remote test / indicator light, use with D010 only ⁽²⁾ (6) IEM7 = 7 watt emergency battery pack with integral test / indicator light, use with D010 only ⁽²⁾ (6) (10) IEM14 = 14 watt emergency battery pack with integral test / indicator light, use with D010 only ⁽²⁾ (6) (10) | HB128APK = L channel hanger bar, 26", pair (replacement) RMB22 = Adjustable wood joist mounting bars, pair, extend to 22" long |
| | Notes | Notes | Notes | Notes | Notes |
| | | | | (2) Not available with D010347 (347V models) (6) Emergency battery backup options are Non-IC only, and rated for a minimum starting temperature of 0°C (10) IEM option requires compatible IEM reflector or baffle trim. See Trim Ordering below. | |



LED Module Order Information

| LED Module | Lumens | CRI/CCT | |
|---------------------|---|--|--|
| LED Module | Lumens | CRI/CCT | |
| HM4 = 4" LED module | 0525 = 500 - 2500 lumen 3040 = 3000-4000 lumen 4560 = 4500-6000 lumen | 827 = 80CRI, 2700K 830 = 80CRI, 3000K 835 = 80CRI, 3500K 840 = 80CRI, 4000K 850 = 80CRI, 5000K | 927 = 90CRI, 2700K 930 = 90CRI, 3000K 935 = 90CRI, 3500K 940 = 90CRI, 4000K 950 = 90CRI, 5000K |
| Notes | Notes | No | tes |
| | | | |

Trim Order Information

| Reflector | Distribution ⁽⁸⁾ | Finish | Flange | Accessories |
|---------------------------|--|--|---|--|
| 41 = 4" conical reflector | ND = narrow 50° beam angle 0.84 SC (nominal) MD = medium 60° beam angle 1.00 SC (nominal) WD = wide 75° beam angle 1.24 SC (nominal) RWW = rotatable wall wash with linear spread lens | C = Specular clear H = Semi-specular clear W = White | Blank = Polished flange standard with C & H reflectors Blank = White flange standard with W reflectors WF = White flange option available with C & H reflectors BF = Black Flange option available with C, H & W reflectors | 41RWWPK = Replacement part kit - wall wash lens insert - for use with 41RWW* only. |
| Notes | Notes | Notes | Notes | Notes |
| | (8) Values are nominal for white reflector, others may vary. | | | |

| Baffle | Distribution ⁽⁸⁾ | Finish | Flange | Accessories |
|--------------------------|---|--|---|--|
| 41 = 4" baffle reflector | WD = wide 75° beam angle 1.24 SC (nominal) RWW = rotatable wall wash with linear spread lens | BB = Black baffle WB = White baffle | Blank = White flange standard with BB, & WB reflectors BF = Black flange option available with BB reflectors | 41RWWPK = Replacement part kit - wall wash lens insert - for use with 41RWW* only. |
| Notes | Notes | Notes | Notes | Notes |
| | (8) Values are nominal for white reflector, others may vary. | | | |

| Reflector | Distribution ⁽⁸⁾ | Finish | Flange |
|---|--|-----------|---|
| 41PS = 4" non-conductive polymer 'dead front' conical reflector [®] | MD = medium 60° beam angle 1.00 SC (nominal) | W = White | Blank = White flange standard with W reflectors BF = Black Flange option available with W reflectors |
| Notes | Notes | Notes | Notes |
| (9) 41PS* is 1000-3000 lumens Non-IC rated. 500 & 750 lumens IC rated. 41PS is not for use over 3000 lumens in Non-IC or over 750 lumens in IC. | (8) Values are nominal for white reflector, others may vary. | | |

| IEM Reflector | Distribution ⁽⁸⁾ | Finish | Flange | Integral Emergency |
|---|--|--|--|---|
| 41 = 4" conical reflector for integral emergency only | ND = narrow 50° beam angle 0.84 SC (nominal) MD = medium 60° beam angle 1.00 SC (nominal) WD = wide 75° beam angle 1.24 SC (nominal) | C = Specular clear H = Semi-specular clear W = White | Blank = Polished flange standard with C & H reflectors Blank = White flange standard with W reflectors WF = White flange option available with C & H reflectors BF = Black flange option available with C, H, & W reflectors | IEM = Reflector for use with integral emergency housings only. Provides access hole for integral emergency test switch. |
| Notes | Notes | Notes | Notes | Notes |
| | (8) Values are nominal for white reflector, others may vary. | | | |

| IEM Baffle | Distribution ⁽⁸⁾ | Finish | Flange | Integral Emergency |
|--|--|--|---|--|
| 41 = 4" baffle reflector for integral emergency only | WD = wide 75° beam angle 1.24 SC (nominal) | BB = Black baffle WB = White baffle | Blank = White flange standard with BB, & WB reflectors BF = Black flange option with BB reflectors | IEM = Reflector for use with integral emergency housings only. Provides access hole for integral emergency test switch. |
| Notes | Notes | Notes | Notes | Notes |
| | (8) Values are nominal for white reflector, others may vary. | | | |

Product Specifications

Housing Frame

- · Boat shaped galvanized steel plaster frame with adjustable plaster lip
- Accommodates 1/2" to 1-1/2" thick ceilings
- · Installs in new construction or from below the finished ceiling (non-accessible) for remodeling
- · Provided with two remodel clips to secure the frame to the ceiling

Universal Mounting Bracket

- · Adjusts 2" vertically from above and below the
- Use with the included mounting bars or with 1/2" Electric Metallic Tube (EMT)
- Removable to facilitate remodeling installation from below the finished ceiling

Mounting Bars

- Captive pre-installed No Fuss™ mounting bars lock to T-grid with screwdriver or pliers
- Centering detents allow for consistent positioning of fixtures

LED Module

- · Proximity phosphors over chip on board LEDs provide a uniform source with high efficiency and
- Available in 80 or 90 color rendering index (CRI)
- · Color accuracy within 3 SDCM provides color consistency and uniformity
- 90 CRI option: R9>50 (refer to chromaticity information for details)
- Available in 2700K, 3000K, 3500K, 4000K and 5000K correlated color temperature (CCT)
- · Lumen options include 500, 750, 1000, 1500, 2000, 2500, 3000, 3500, 4000, 4500, 5000, 5500, 6000 lumens (nominal)
- Passive thermal management achieves 60,000 hours at 70% lumen maintenance (L70) in insulated ceilings (IC) and non-IC applications
- Integral diffuse lens provides visual shielding
- · Integral connector allows quick connection to housing flex

Reflector

- Self-flanged aluminum reflectors available in narrow, medium or wide distribution patterns
- · Medium distribution polymer non-conductive matte white reflector may be used to meet local codes for 'dead front' applications (500 & 750 lumen max. in IC and 3000 lumen max. in Non-IC)
- Wall wash reflector features a rotatable linear spread lens for alignment of vertical illumination
- Reflectors attach to LED module with three speed
- · Available in multiple painted or plated finishes

Reflector/Module Retention

· Reflector/module assembly is securely retained in the housing with two torsion springs

- · Field-replaceable constant current driver provides low noise operation
- · Universal 120-277VAC 50/60Hz input standard
- · Continuous, 1% to 100% dimming with 0-10V analog control
- Optional low-voltage DC driver for use with Distributed Low Voltage Power (DLVP) system
- · Distributed Low Voltage Power (DLVP) system combines power, lighting and controls with ease of installation (refer to DLVP Design Guide at www.cooperlighting.com for details)

Canada Options

- 347VAC 50/60Hz; 1% dimming on 0 -10V analog control, for 500, 750, 1000, 1500, 2000, 2500, 3000, 3500, 4000 lumen models only
- · 347V step down transformer factory installed with the standard "D010" 120V-277V, LED driver on 4500, 5000, 5500, 6000 lumen models only

Emergency Option

- · Provides 90 minutes of standby lighting, meeting most life safety codes for egress lighting
- · Available with integral or remote charge indicator and test switch
- Available Self-Test (self-diagnostic) with remote charge indicator and test switch
- Quick Spec emergency ordering option for quickturn projects

Connected Lighting System

Two WaveLinx connected solutions to choose from. Refer to WaveLinx system specifications and application guides for details.

WaveLinx PRO Tilemount Sensor Kit

· WaveLinx PRO WTA tilemount sensor kit offers daylight dimming, PIR motion sensing, scene and zone configuration, automatic commissioning: and optional RLTS - Real Time Location Services available.

WaveLinx PRO Wireless Node

WaveLinx PRO WPN wireless node provides luminaire-level control with scene and zone configuration without an integrated sensor; Connects wirelessly with daylight dimming sensor and PIR motion sensor if desired. Use with 0-10V driver only. Note: Not compatible with 347V or Chicago plenum.

WaveLinx LITE Tilemount Sensor Kit

· WaveLinx LITE WTK tilemount sensor kit offers daylight dimming and PIR motion sensing, scene and grouping configuration.

WaveLinx LITE Wireless Node

· WaveLinx LITE WLN wireless node provides luminaire level control with scene and zone configuration without an integrated sensor: Connects wirelessly with daylight dimming sensor and PIR motion sensor if desired. Use with 0-10V driver only. Note: Not compatible with 347V or Chicago plenum.

WaveLinx Tilemount Sensor Kits Application

- The WTA and WTK tilemount sensor kits include a control module mounted on the luminaire junction box via 1/2" knock-out, and a tilemount sensor on 54-inch whip; for ceiling installation by directmount spring clips or via mounting bracket in octagon ceiling boxes.
- The WTA and WTK tilemount sensor kits may be ordered as factory installed on the luminaire, or ordered separately as a field installed accessory kit.
- Note: WaveLinx PRO devices are only compatible with the WaveLinx PRO system.
- Note: WaveLinx LITE devices are only compatible with the WaveLinx LITE system.

Junction Box

- Galvanized steel junction box
- 20 in³ internal volume excluding voltage barrier
- 25 in³ internal total volume
- · Voltage barrier for 0-10V dimming wires (occupies one 1/2" pry-out space)
- Listed for eight #12 AWG (four in. four out) 90°C conductors and feed-thru branch wiring
- Three 1/2" and two 3/4" trade size pry-outs
- Three 4-port push wire nuts for mains voltage with 1-port for fixture connection

Compliance

- cULus Certified to UL 1598 / C22.2 No. 250.0, suitable for damp locations and wet locations in covered ceilings only
- Emergency options provided with UL Listed emergency drivers to UL 924 / C22.2 No. 141, suitable for indoor/damp locations
- IP20 Above finished ceiling; IP64 Below finished ceilina
- Non-Insulated ceiling (Non-IC) rated for 2000, 2500, 3000, 3500, 4000, 4500, 5000, 5500, 6000 lumen models (insulation must be kept 3" from top and sides)
- Insulated ceiling (IC) rated for 500, 750, 1000, 1500 lumen models and suitable for direct contact with air permeable insulation* (IC models are also suitable for Non-IC installations)
- Non-IC marked spacing required for 4500, 5000, 5500, 6000 lumen models
- Marked Spacing Center to Center of Adjacent Luminaires = 36
- Center of Luminaire to Building Member = 18"
- Minimum overhead = 0.5"
- · Airtight per ASTM-E283-04
- Suitable for use in clothes closets when installed in accordance with the NEC 410.16 spacing requirements
- EMI/RFI emissions FCC CFR Title 47 Part 15 Class A at 120/277V
- · Contains no mercury or lead and RoHS compliant
- · Photometric testing completed in accordance of
- · Lumen maintenance projection in accordance of IES LM-80-08 and TM-21-11
- 1,000 and 1,500 lumen, 90 CRI, ICAT models may be used to comply with State of California Title 24 residential code, per JA8 certification standards
- May be used to comply with State of California Title 24 non-residential code as a dimmable LED
- ENERGY STAR® certified, reference certified light fixtures database
 - *Not for use in direct contact with spray foam insulation, consult NEMA LSD57-2013

Warranty

Five year limited warranty, consult website for details. www.cooperlighting.com/legal

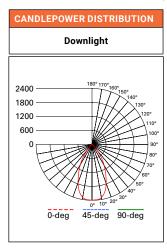


Photometric Data



NARROW DISTRIBUTION - SPECULAR CLEAR FINISH, 2000 LUMEN MODEL, 80 CRI, 3500K

| NARROW (50° BEAM*) | | | | |
|--------------------|------------|--|--|--|
| Test Number | P571728 | | | |
| Housing | HC420D010 | | | |
| Module | HM40525835 | | | |
| Reflector | 41NDC | | | |
| Lumens | 2010 Lm | | | |
| Efficacy | 100.5 Lm/W | | | |
| SC | 0.84 | | | |
| UGR | 12.2 | | | |
| | | | | |



| CONE OF LIGHT | | | | | |
|---------------|------|-----|-----|--|--|
| 0° D | | | | | |
| МН | FC | L | W | | |
| 5.5' | 79.3 | 4.6 | 4.6 | | |
| 7' | 49 | 5.8 | 5.8 | | |
| 8' | 37.5 | 6.6 | 6.6 | | |
| 9' | 29.6 | 7.4 | 7.4 | | |
| 10' | 24 | 8.4 | 8.4 | | |
| 12' | 16.7 | 10 | 10 | | |
| | | | | | |

| CANDELA TABLE | |
|---------------------|---------|
| Degrees Vertical | Candela |
| 0 | 2400 |
| 5 | 2387 |
| 15 | 2110 |
| 25 | 1368 |
| 35 | 676 |
| 45 | 152 |
| 55 | 23 |
| 65 | 5 |
| 75 | 1 |
| 85 | 0 |
| 90 | 0 |

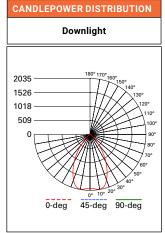
| ZONAL LUMEN SUMMARY | | | |
|---------------------|--------|-----------|--|
| Zone | Lumens | % Fixture | |
| 0-30 | 1436 | 71.5 | |
| 0-40 | 1848 | 92 | |
| 0-60 | 2002 | 99.6 | |
| 0-90 | 2010 | 100 | |
| 90-180 | 0 | 0 | |
| 0-180 | 2010 | 100 | |
| | | | |

| LUMINANCE | | |
|-------------------------------|-------------------------|--|
| Average Candela Degrees | Average 0° Luminance | |
| 45 | 26514 | |
| 55 | 4968 | |
| 65 | 1576 | |
| 75 | 667 | |
| 85 | 0 | |

*Value are nominal for specular clear reflectors, other may vary. SC = Spacing Criteria UGR = Unified Glare Rating

MEDIUM DISTRIBUTION - SPECULAR CLEAR FINISH, 2000 LUMEN MODEL, 80 CRI, 3500K

MEDIUM (60° BEAM*) Test P571727 Number Housing HC420D010 Module HM40525835 Reflector 41MDC Lumens 2096 Lm 104.8 Lm/W Efficacy SC 1.0 UGR 13.6



| EEI OMER DISTRIBUTION | C | ONE |
|-------------------------------|------|-----|
| Downlight | | |
| 180° 170° 160° 150° 140° 130° | 09 | |
| 120° | МН | F |
| 100° | 5.5' | 65 |
| 90° | 7' | 40 |
| 70° | 8' | 30 |
| 50° | 9' | 24 |
| 0° 10° 20° 30° | 10' | 19 |
| 0-deg 45-deg 90-deg | 12' | 13 |
| | | |

| 0° D | | | |
|-----------------|---|---|--|
| FC | L | W | |
| 65.3 | 5.4 | 5.4 | |
| 40.3 | 6.8 | 6.8 | |
| 8' 30.9 7.8 7.8 | | | |
| 24.4 | 8.8 | 8.8 | |
| 19.8 | 9.8 | 9.8 | |
| 13.7 | 11.8 | 11.8 | |
| | FC 65.3 40.3 30.9 24.4 19.8 | FC L 65.3 5.4 40.3 6.8 30.9 7.8 24.4 8.8 19.8 9.8 | |

| CANDELA TABLE | | |
|---------------------|---------|--|
| Degrees Vertical | Candela | |
| 0 | 1969 | |
| 5 | 1997 | |
| 15 | 1974 | |
| 25 | 1467 | |
| 35 | 800 | |
| 45 | 192 | |
| 55 | 26 | |
| 65 | 4 | |
| 75 | 1 | |
| 85 | 0 | |
| 90 | 0 | |

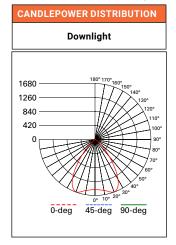
| ZONAL LUMEN SUMMARY | | |
|---------------------|--------|-----------|
| Zone | Lumens | % Fixture |
| 0-30 | 1408 | 67.1 |
| 0-40 | 1899 | 90.6 |
| 0-60 | 2091 | 99.7 |
| 0-90 | 2096 | 100 |
| 90-180 | 0 | 0 |
| 0-180 | 2096 | 100 |

| LUMINANCE | | |
|-------------------------------|-------------------------|--|
| Average Candela Degrees | Average 0° Luminance | |
| 45 | 33405 | |
| 55 | 5548 | |
| 65 | 1197 | |
| 75 | 667 | |
| 85 | 0 | |

*Value are nominal for specular clear reflectors, other may vary. SC = Spacing Criteria UGR = Unified Glare Rating

WIDE DISTRIBUTION - SPECULAR CLEAR FINISH, 2000 LUMEN MODEL, 80 CRI, 3500K

| WIDI | E (75° BEAM*) |
|----------------|---------------|
| Test Number | P571730 |
| Housing | HC420D010 |
| Module | HM40525835 |
| Reflector | 41WDC |
| Lumens | 2304 Lm |
| Efficacy | 115.2 Lm/W |
| SC | 1.25 |
| UGR | 15.7 |
| | |



| CONE OF LIGHT | | | |
|---------------|------|------|------|
| o° | | | |
| МН | FC | L | W |
| 5.5' | 49.9 | 6.8 | 6.8 |
| 7' | 30.8 | 8.6 | 8.6 |
| 8' | 23.6 | 9.8 | 9.8 |
| 9' | 18.6 | 11.2 | 11.2 |
| 10' | 15.1 | 12.4 | 12.4 |
| 12' | 10.5 | 14.8 | 14.8 |

| Degrees Vertical Candela 0 1509 5 1525 15 1630 25 1603 35 1012 45 369 55 44 65 5 75 1 |
|---|
| 5 1525 15 1630 25 1603 35 1012 45 369 55 44 65 5 |
| 15 1630 25 1603 35 1012 45 369 55 44 65 5 |
| 25 1603 35 1012 45 369 55 44 65 5 |
| 35 1012 45 369 55 44 65 5 |
| 45 369 55 44 65 5 |
| 55 44 65 5 |
| 65 5 |
| |
| 75 1 |
| |
| 85 0 |
| 90 0 |

| ZONAL LUMEN SUMMARY | | | |
|---------------------|--------|-----------|--|
| Zone | Lumens | % Fixture | |
| 0-30 | 1334 | 57.9 | |
| 0-40 | 1960 | 85.1 | |
| 0-60 | 2296 | 99.7 | |
| 0-90 | 2304 | 100 | |
| 90-180 | 0 | 0 | |
| 0-180 | 2304 | 100 | |
| | | | |

| LUMINANCE | | | |
|-------------------------------|-------------------------|--|--|
| Average Candela Degrees | Average 0° Luminance | | |
| 45 | 64437 | | |
| 55 | 9355 | | |
| 65 | 1576 | | |
| 75 | 667 | | |
| 85 | 0 | | |

*Value are nominal for specular clear reflectors, other may vary. SC = Spacing Criteria UGR = Unified Glare Rating

Photometric Multipliers (Nominal Lumen Values)

| | | | • | | | | |
|------------|------------|------------|------------|------------|------------|------------|------------|
| 500 Lumen | 750 Lumen | 1000 Lumen | 1500 Lumen | 2000 Lumen | 2500 Lumen | 3000 Lumen | 3500 Lumen |
| 0.33 | 0.44 | 0.54 | 0.74 | 1.00 | 1.24 | 1.54 | 1.85 |
| 4000 Lumen | 4500 Lumen | 5000 Lumen | 5500 Lumen | 6000 Lumen | | | |
| 2.15 | 2.28 | 2.44 | 2.52 | 2.62 |] | | |

Multipliers for relative lumen values with other series models.

Color Finish Multipliers

| Finish code C | | Н | W/WB | ВВ |
|---------------|----------------|---------------|-----------------------------|--------------|
| Finish | Specular Clear | Semi-Specular | Matte White White Baffle | Black Baffle |
| Multiplier | 1.00 | 0.94 | 0.88 | 0.76 |

Multipliers for relative lumen values with other color finishes.

CCT Multipliers - 80CRI

| 2700K | 3000K | 3500K | 4000K | 5000K |
|-------|-------|-------|-------|-------|
| 0.89 | 0.96 | 1.00 | 1.03 | 1.03 |

Multipliers for relative lumen values with other series color temperatures.

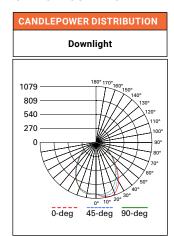
CCT Multipliers - 90CRI

| 2700K | 3000K | 3500K | 4000K | 5000K |
|-------|-------|-------|-------|-------|
| 0.76 | 0.85 | 0.89 | 0.93 | 0.93 |

Multipliers for relative lumen values with other series color temperatures.

WALL WASH DISTRIBUTION - SPECULAR CLEAR FINISH, 2000 LUMEN MODEL, 80 CRI, 3500K

| W | WALL WASH | | | | |
|----------------|------------|--|--|--|--|
| Test Number | P571729 | | | | |
| Housing | HC420D010 | | | | |
| Module | HM40525835 | | | | |
| Reflector | 41RWWC | | | | |
| Lumens | 2094 Lm | | | | |
| Efficacy | 104.7 Lm/W | | | | |
| sc | 1.15 | | | | |
| | | | | | |



| CANDEL | A TABLE |
|---------------------|---------|
| Degrees Vertical | Candela |
| 0 | 1005 |
| 5 | 1041 |
| 15 | 1079 |
| 25 | 980 |
| 35 | 743 |
| 45 | 494 |
| 55 | 312 |
| 65 | 180 |
| 75 | 80 |
| 85 | 10 |
| 90 | 0 |

| ZONAL LUMEN SUMMARY | | | | | | |
|---------------------|--------|-----------|--|--|--|--|
| Zone | Lumens | % Fixture | | | | |
| 0-30 | 789 | 37.7 | | | | |
| 0-40 | 1221 | 58.3 | | | | |
| 0-60 | 1872 | 89.4 | | | | |
| 0-90 | 2094 | 100 | | | | |
| 90-180 | 0 | 0 | | | | |
| 0-180 | 2094 | 100 | | | | |

| LUMINANCE | | | |
|-------------------------------|-------------------------|--|--|
| Average Candela Degrees | Average 0° Luminance | | |
| 45 | 86207 | | |
| 55 | 67159 | | |
| 65 | 52681 | | |
| 75 | 38173 | | |
| 85 | 13445 | | |

SC = Spacing Criteria, nominal for specular clear reflector, other may vary.

| SINGLE UNIT FOOTCANDLES | | | | | | | |
|---|------|------|------|-----|-----|-----|-----|
| 2.5' from wall (distance from fixture along wall) | | | | | | | |
| 1 | 18.7 | 13.6 | 6.1 | 2.3 | 0.8 | 0.3 | 0.1 |
| 2 | 28.4 | 22.3 | 12.2 | 5.7 | 2.6 | 1.2 | 0.6 |
| 3 | 25.9 | 21.4 | 13.3 | 7.2 | 3.8 | 2 | 1.1 |
| 4 | 19.6 | 16.9 | 11.6 | 7 | 4.1 | 2.4 | 1.4 |
| 5 | 13.6 | 12.3 | 9.2 | 6.2 | 3.9 | 2.5 | 1.5 |
| 6 | 9.3 | 8.6 | 7 | 5.1 | 3.5 | 2.3 | 1.6 |
| 7 | 6.4 | 6.1 | 5.2 | 4.1 | 3 | 2.1 | 1.5 |
| 8 | 4.6 | 4.4 | 3.9 | 3.2 | 2.5 | 1.8 | 1.3 |
| 9 | 3.3 | 3.2 | 2.9 | 2.5 | 2 | 1.6 | 1.2 |
| 10 | 2.5 | 2.4 | 2.2 | 2 | 1.7 | 1.4 | 1.1 |

| MULTIPLE UNIT FO | | | | | | |
|--|------|------|------|--|--|--|
| 2.5' from wall (Distance from fixture along wall) 3 | | | | | | |
| 1 | 21 | 18.8 | 21 | | | |
| 2 | 34.1 | 34.1 | 34.1 | | | |
| 3 | 33.1 | 34.4 | 33.1 | | | |
| 4 | 26.7 | 28.7 | 26.7 | | | |
| 5 | 19.8 | 21.7 | 19.8 | | | |
| 6 | 14.4 | 15.8 | 14.4 | | | |
| 7 | 10.5 | 11.4 | 10.5 | | | |
| 8 | 7.8 | 8.3 | 7.8 | | | |
| 9 | 5.8 | 6.2 | 5.8 | | | |
| 10 | 4.4 | 4.7 | 4.4 | | | |

| OOTCANDLES | | | | | | | |
|------------|--|------|------|--|--|--|--|
| | 2.5' from wall (Distance from fixture along wall) 4 | | | | | | |
| | 19.5 | 12.1 | 19.5 | | | | |
| | 31 | 24.4 | 31 | | | | |
| | 29.7 | 26.5 | 29.7 | | | | |
| | 23.7 | 23.3 | 23.7 | | | | |
| | 17.5 | 18.5 | 17.5 | | | | |
| | 12.8 | 14 | 12.8 | | | | |
| | 9.4 | 10.4 | 9.4 | | | | |
| | 7 | 7.7 | 7 | | | | |
| | 5.4 | 5.9 | 5.4 | | | | |
| | 4.1 | 4.5 | 4.1 | | | | |

Photometric Multipliers (Nominal Lumen Values)

| 500 Lumen | 750 Lumen | 1000 Lumen | 1500 Lumen | 2000 Lumen | 2500 Lumen | 3000 Lumen | 3500 Lumen |
|------------|------------|------------|------------|------------|------------|------------|------------|
| 0.33 | 0.44 | 0.54 | 0.74 | 1.00 | 1.24 | 1.54 | 1.85 |
| 4000 Lumen | 4500 Lumen | 5000 Lumen | 5500 Lumen | 6000 Lumen | | | |

2 62

Multipliers for relative lumen values with other series models.

2.28

Color Finish Multipliers

2.15

| Finish code | С | Н | W/WB | ВВ | | | | |
|---------------------|------|---------------|-----------------------------|--------------|--|--|--|--|
| Finish Specular Cle | | Semi-Specular | Matte White White Baffle | Black Baffle | | | | |
| Multiplier | 1.00 | 0.94 | 0.88 | 0.76 | | | | |

2 44

Multipliers for relative lumen values with other color finishes.

CCT Multipliers - 80CRI

| 2700K | 3000K | 3500K | 4000K | 5000K |
|-------|-------|-------|-------|-------|
| 0.89 | 0.96 | 1.00 | 1.03 | 1.03 |

Multipliers for relative lumen values with other series color temperatures.

CCT Multipliers - 90CRI

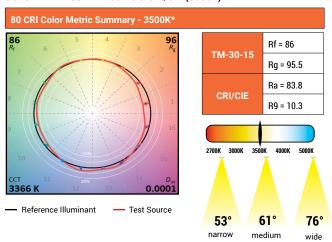
| 2700K | 3000K | 3500K | 4000K | 5000K |
|-------|-------|-------|-------|-------|
| 0.76 | 0.85 | 0.89 | 0.93 | 0.93 |

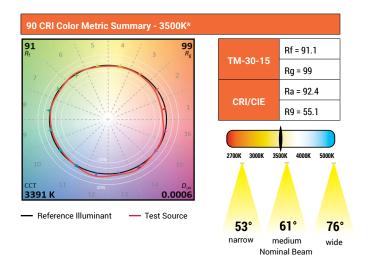
Multipliers for relative lumen values with other series color temperatures.



Energy & Performance Data

COLOR METRICS - TM-30-15 & CRI/CIE (3500K)





* Color values are based on 61WDWB reflector, other finishes and field results may vary.

ENERGY DATA

| Series | 500 l | umen | 750 l | umen | 1000 | lumen | 1500 | umen | 2000 | umen |
|--------------------------|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| Input Voltage 120-277VAC | 120V | 277V | 120V | 277V | 120V | 277V | 120V | 277V | 120V | 277V |
| Input Current (A) | 0.051 | 0.026 | 0.067 | 0.036 | 0.083 | 0.039 | 0.119 | 0.053 | 0.171 | 0.077 |
| Input Power (W) | 6.1 | 6.5 | 7.9 | 8.3 | 10 | 10.4 | 14.5 | 14.5 | 20.9 | 20.6 |
| In-rush (A) | 1.9 | 8.4 | 2 | 8.4 | 2.2 | 8.5 | 2.7 | 8.5 | 2.1 | 9.7 |
| Inrush duration (µs) | 251 | 135 | 237 | 133 | 250 | 134 | 250 | 139 | 245 | 131 |
| THD (%) | 6.2 | 13.5 | 7.4 | 8.8 | 5.4 | 10.3 | 10 | 6.7 | 6.5 | 7.9 |
| PF | ≥ 0.99 | ≥ 0.9 | ≥ 0.98 | ≥ 0.92 | ≥ 0.99 | ≥ 0.95 | ≥ 0.99 | ≥ 0.97 | ≥ 0.99 | ≥ 0.96 |

| Series | 2500 | umen | 3000 | lumen | 3500 | lumen | 4000 | umen | 4500 | lumen |
|--------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Input Voltage 120-277VAC | 120V | 277V |
| Input Current (A) | 0.23 | 0.103 | 0.24 | 0.107 | 0.292 | 0.152 | 0.351 | 0.159 | 0.384 | 0.172 |
| Input Power (W) | 27.5 | 27.5 | 28.6 | 28.5 | 34.6 | 35.1 | 42.1 | 42.1 | 45.9 | 45.6 |
| In-rush (A) | 2.5 | 5.6 | 2.5 | 11.6 | 3.4 | 13.9 | 3.1 | 14.7 | 3.1 | 14.8 |
| Inrush duration (µs) | 232 | 123 | 216 | 111 | 183 | 95 | 200 | 98 | 202 | 100 |
| THD (%) | 6.5 | 8.1 | 7.8 | 8.3 | 5.6 | 10 | 4.1 | 9.5 | 4.5 | 8.5 |
| PF | ≥ 0.99 | ≥ 0.96 | ≥ 0.99 | ≥ 0.96 | ≥ 0.99 | ≥ 0.93 | ≥ 0.99 | ≥ 0.94 | ≥ 0.99 | ≥ 0.95 |

| Series | 5000 lumen | | 5500 l | lumen | 6000 lumen | |
|--------------------------|------------|--------|--------|--------|------------|--------|
| Input Voltage 120-277VAC | 120V | 277V | 120V | 277V | 120V | 277V |
| Input Current (A) | 0.419 | 0.186 | 0.457 | 0.201 | 0.489 | 0.214 |
| Input Power (W) | 50.1 | 49.5 | 54.6 | 53.7 | 58.4 | 57.4 |
| In-rush (A) | 3.1 | 15 | 3.2 | 14.8 | 3.4 | 14.8 |
| Inrush duration (µs) | 202 | 117 | 196 | 131 | 192 | 121 |
| THD (%) | 5.5 | 7.6 | 7 | 7.2 | 8.1 | 7.2 |
| PF | ≥ 0.99 | ≥ 0.96 | ≥ 0.99 | ≥ 0.96 | ≥ 0.99 | ≥ 0.97 |

Nominal Beam

Minimum starting temperature -30°C (-22°F)*

(Nominal input 120-277VAC & 100% of rated output power)

Sound Rating: Class A standards

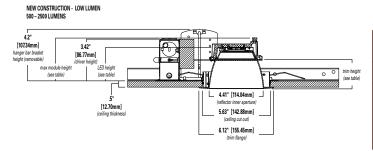
Notes:

* Emergency Battery packs are rated for a minimum starting temperature of 0°C.



Dimensional and Mounting Details

NEW CONSTRUCTIONS - LOW LUMEN 500 - 2500 LUMENS



Low Lumen (500 - 2500 Lumens)*

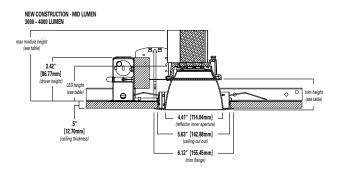
| Distribution | Max. Module Height | Trim Height | LED Height |
|--------------|-----------------------|-------------|------------|
| Narrow | 3.6" | 2.5" | 2.7" |
| Medium | 3.7" | 2.6" | 2.8" |
| Wide | 3.5" | 2.4" | 2.6" |
| Baffle | 3.1" | 2.4" | 2.6" |



Low Lumen Module

*Max. height w/removable hanger bar bracket 4.2"

NEW CONSTRUCTIONS - MID LUMEN 3000 - 4000 LUMENS



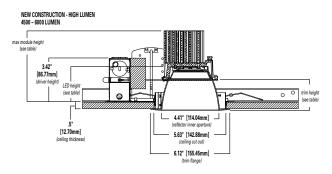
Mid Lumen (3000 - 4000 Lumens)

| Distribution | Max. Module Height | Trim Height | LED Height |
|--------------|-----------------------|-------------|------------|
| Narrow | 5.6" | 2.5" | 2.9" |
| Medium | 5.7" | 2.6" | 3.0" |
| Wide | 5.5" | 2.4" | 2.8" |
| Baffle | 5.5" | 2.4" | 2.8" |



Mid Lumen Module

NEW CONSTRUCTIONS - HIGH LUMEN 4500 - 6000 LUMENS



High Lumen (4500 - 6000 Lumens)

| Distribution | Max. Module Height | Trim Height | LED Height | |
|--------------|-----------------------|-------------|------------|--|
| Narrow | 5.9" | 2.5" | 2.9" | |
| Medium | 6.0" | 2.6" | 3.0" | |
| Wide | 5.8" | 2.4" | 2.8" | |
| Baffle | 5.8" | 2.4" | 2.8" | |



High Lumen Module

Connected Solutions

WaveLinx Lite O COOPER

WaveLinx LITE - WTK Tilemount Sensor

WaveLinx LITE devices only compatible with the WaveLinx LITE system.

- · Intuitive Android™ or Apple® iOS® app for basic system code compliant set up and configuration via Bluetooth
- Up to 28 unique areas per project site (WaveLinx LITE Bluetooth network)
- Up to 50 devices for an area, any one of 16 control zones, up to 6 occupancy sets, and custom lighting scenes
- Automatic occupancy or vacancy, sensor sensitivity, daylight dimming, etc. configurable through the app
- Refer to the WaveLinx system specifications for details









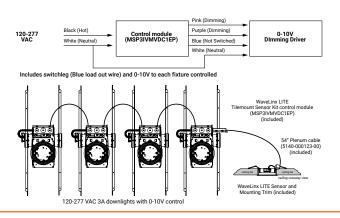








WaveLinx LITE WTK Tilemount Wiring Diagram



WaveLinx LITE Bluetooth Enabled System * **∦** <-8 8

WaveLinx PRO - WTA Tilemount Sensor

WaveLinx PRO devices only compatible with the WaveLinx PRO system.

- WaveLinx PRO tilemount functionality configures zones and customizes settings from one secure mobile app
- Automatic code commissioning that meets the strictest codes
- Fixtures and sensors integrate with Wireless Area Controller, Wall Stations, and Control Devices
- Stand-Alone Offices or Entire Building Network Installations



WaveLinx mobile app settings











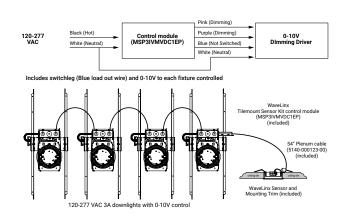




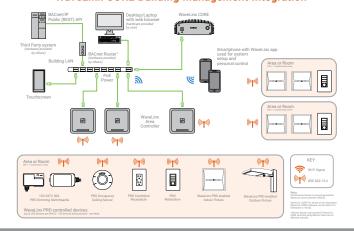




WaveLinx WTA Tilemount Wiring Diagram



WaveLinx CORE Building Management Integration



Connected Solutions



WaveLinx LITE Wireless Node - WLN

WaveLinx LITE devices only compatible with the WaveLinx LITE system.

- Intuitive Android™ or Apple® iOS® app for basic system code compliant set up and configuration via Bluetooth
- Up to 28 unique areas per project site (WaveLinx LITE Bluetooth network)
- Up to 50 devices for an area, any one of 16 control zones, up to 6 occupancy sets, and custom lighting scenes
- · Refer to the WaveLinx system specifications for details

WaveLinx mobile app settings







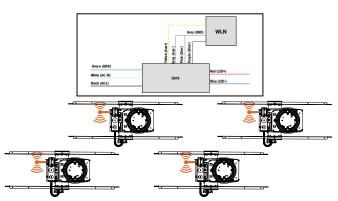








WaveLinx LITE Wireless Node (WLN) Wiring Diagram





Cooper Lighting Solutions Cooper Lighting Solutions The Coop

WaveLinx PRO Wireless Node - WPN

WaveLinx PRO devices only compatible with the WaveLinx PRO system.

- WaveLinx Wireless functionality configures zones and customizes settings from one secure mobile app
- · Automatic code commissioning that meets the strictest codes
- · Fixtures and sensors integrate with WaveLinx Area Controller, Wall Stations, and Control Devices
- Stand-Alone Offices or Entire Building Network Installations



WaveLinx mobile app settings









Receptacle Control

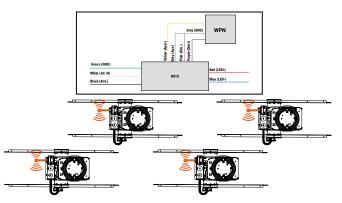




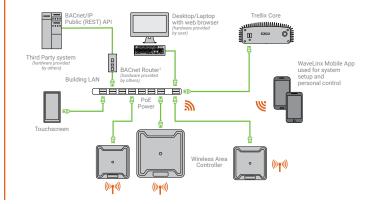




WaveLinx PRO Wireless Node (WPN) Wiring Diagram



WaveLinx CORE Building Management Integration





www.cooperlighting.com