

# HMPALPRO-LKFS

## Lumen and Kelvin Field Multi-Purpose Area Light Pro

### Features:

- Field selectable 3000k (warm white), 4000k (neutral white), and 5000k (cool white) color temperatures.\*
- Initial lumen output ( $L_{70}$ ), and 49,000 hours with at least 90% of initial lumen output ( $L_{90}$ ).\*\*
- LED chromaticity based on < 6-step ANSI quadrangles.
- LED color maintenance  $\leq 0.002$  chromaticity shift ( $\Delta u'v'$ ) over the initial 6,000 hours of operation.
- Provides a range of 14,000 to 40,000 nominal lumens.\*
- IES roadway distributions include types III & V.
- Universal 120-277V (50/60Hz) or 277-480V (50/60Hz) AC voltage with 6-foot incoming power cords.
- 0-10vdc dimming drivers are standard.
- Watertight, compression-type electrical connectors.
- Power factor > 0.90.
- Total harmonic distortion < 20%.
- Color rendering index ( $R_a$ ) > 80.
- Optional NEMA photocell receptacle & photocell.
- Wall mount brackets and tenon adapters available (see page 6).
- Die cast aluminum housing with dark bronze powder coat finish.
- Polycarbonate lens.
- Easy installation in new construction or retrofit.
  - \* Contact factory for other color temperatures and lumen packages.

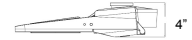
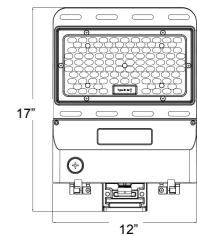
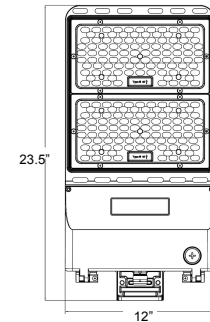
\*\*  $L_{70}$  hours are IES TM-21-11 calculated hours.

### WARRANTY&LISTINGS

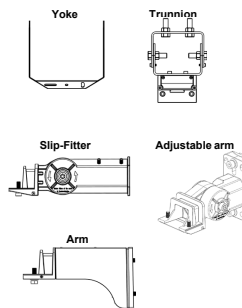
- cULus listed for wet locations in ambient temperatures from -40°C to 50°C (-40°F to 122°F).
- DLC premium approved.
- Rated for 3G vibration.
- Lenses are rated IK08.
- Input transient surge protection (6kV).
- Complies with FCC Part 15, class A.
- IP65 rated for ingress protection.
- 5-year warranty of all electronics and housing.



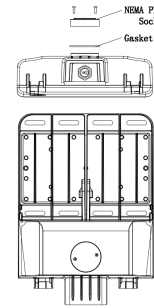
### DIMENSIONS



### MOUNTING OPTIONS



### NEMA PHOTOCELL



### EFFECTIVE PROJECTED AREAS (EPA's)

24L

Front = 1.4 square feet Side = 0.5 square feet Face = 0.3 square feet

40L

Front = 2.0 square feet Side = 0.7 square feet Face = 0.3 square feet

### ORDERING INFORMATION

Example: HMPALPRO-24L-LKFS-T3-P

| Series   | Nominal Lumen Output Selectable | Select               | Distribution    | Input Voltage | NEMA Photocell Receptacle*          | Mounting Means (One Required - Order Separately)* |
|----------|---------------------------------|----------------------|-----------------|---------------|-------------------------------------|---------------------------------------------------|
| HMPALPRO | 24L                             | 24,000/20,000/14,000 | LKFS   3K/4K/5K | T3   Type III | Blank                               | MPAL-ARM   Arm mount                              |
|          | 40L                             | 40,000/34,000/28,000 | T5   Type V     | UNC   277-480 | P   3-pin NEMA photocell receptacle | MPAL-ARM-A   Arm mount adjustable                 |
|          |                                 |                      |                 |               |                                     | MPAL-SF   Slip-fitter mount                       |
|          |                                 |                      |                 |               |                                     | MPAL-TM   Trunnion mount                          |
|          |                                 |                      |                 |               |                                     | MPALPRO-YM   Yoke mount                           |

\*NEMA photocell sold separately: JL-205C23-IP65

\*Pole tenons and tenon adapters available (see page 6)



Job Name:

Type:

Part #:

Notes:

ELECTRICAL DATA

| Model#               | Measurements      | Low Lumens   |              |              | Mid Lumens   |              |              | High Lumens  |              |              |
|----------------------|-------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
|                      |                   | 3000K        | 4000K        | 5000K        | 3000K        | 4000K        | 5000K        | 3000K        | 4000K        | 5000K        |
| HMPALPRO-24L-LKFS-T3 | Lumens            | 14,649       | 16,173       | 15,115       | 20,273       | 22,824       | 20,939       | 24,056       | 26,598       | 24,591       |
|                      | Watts             | 101          | 100          | 102          | 150          | 146          | 152          | 186          | 178          | 187          |
|                      | Efficacy          | 145          | 162          | 148          | 135          | 156          | 138          | 130          | 150          | 131          |
|                      | Input Current (A) | 120V = 0.84A | 120V = 0.83A | 120V = 0.85A | 120V = 1.25A | 120V = 1.22A | 120V = 1.27A | 120V = 1.55A | 120V = 1.48A | 120V = 1.56A |
|                      |                   | 240V = 0.42A | 240V = 0.42A | 240V = 0.43A | 240V = 0.63A | 240V = 0.61A | 240V = 0.63A | 240V = 0.78A | 240V = 0.74A | 240V = 0.78A |
|                      |                   | 277V = 0.36A | 277V = 0.36A | 277V = 0.37A | 277V = 0.54A | 277V = 0.53A | 277V = 0.55A | 277V = 0.67A | 277V = 0.64A | 277V = 0.68A |
| Model#               | Measurements      | Low Lumens   |              |              | Mid Lumens   |              |              | High Lumens  |              |              |
|                      |                   | 3000K        | 4000K        | 5000K        | 3000K        | 4000K        | 5000K        | 3000K        | 4000K        | 5000K        |
| HMPALPRO-24L-LKFS-T5 | Lumens            | 15,049       | 16,748       | 15,656       | 20,616       | 23,398       | 21,498       | 24,156       | 26,788       | 25,153       |
|                      | Watts             | 101          | 100          | 102          | 150          | 145          | 151          | 186          | 178          | 187          |
|                      | Efficacy          | 149          | 167          | 154          | 137          | 161          | 142          | 130          | 150          | 134          |
|                      | Input Current (A) | 120V = 0.84A | 120V = 0.83A | 120V = 0.85A | 120V = 1.25A | 120V = 1.21A | 120V = 1.26A | 120V = 1.55A | 120V = 1.48A | 120V = 1.56A |
|                      |                   | 240V = 0.42A | 240V = 0.42A | 240V = 0.43A | 240V = 0.63A | 240V = 0.60A | 240V = 0.63A | 240V = 0.78A | 240V = 0.74A | 240V = 0.78A |
|                      |                   | 277V = 0.36A | 277V = 0.36A | 277V = 0.37A | 277V = 0.54A | 277V = 0.52A | 277V = 0.55A | 277V = 0.67A | 277V = 0.64A | 277V = 0.68A |
| Model#               | Measurements      | Low Lumens   |              |              | Mid Lumens   |              |              | High Lumens  |              |              |
|                      |                   | 3000K        | 4000K        | 5000K        | 3000K        | 4000K        | 5000K        | 3000K        | 4000K        | 5000K        |
| HMPALPRO-40L-LKFS-T3 | Lumens            | 28,924       | 32,211       | 30,104       | 33,874       | 37,248       | 35,140       | 40,091       | 44,173       | 41,188       |
|                      | Watts             | 204          | 198          | 204          | 248          | 232          | 247          | 303          | 284          | 303          |
|                      | Efficacy          | 142          | 163          | 148          | 137          | 160          | 142          | 132          | 156          | 136          |
|                      | Input Current (A) | 120V = 1.70A | 120V = 1.65A | 120V = 1.70A | 120V = 2.07A | 120V = 1.93A | 120V = 2.06A | 120V = 2.53A | 120V = 2.37A | 120V = 2.53A |
|                      |                   | 240V = 0.85A | 240V = 0.82A | 240V = 0.85A | 240V = 1.03A | 240V = 0.97A | 240V = 1.03A | 240V = 1.26A | 240V = 1.18A | 240V = 1.26A |
|                      |                   | 277V = 0.74A | 277V = 0.71A | 277V = 0.74A | 277V = 0.90A | 277V = 0.84A | 277V = 0.89A | 277V = 1.09A | 277V = 1.03A | 277V = 1.09A |
| Model#               | Measurements      | Low Lumens   |              |              | Mid Lumens   |              |              | High Lumens  |              |              |
|                      |                   | 3000K        | 4000K        | 5000K        | 3000K        | 4000K        | 5000K        | 3000K        | 4000K        | 5000K        |
| HMPALPRO-40L-LKFS-T5 | Lumens            | 29,447       | 33,006       | 30,873       | 34,329       | 37,862       | 35,862       | 39,723       | 44,079       | 41,462       |
|                      | Watts             | 204          | 197          | 203          | 247          | 231          | 246          | 298          | 283          | 297          |
|                      | Efficacy          | 144          | 168          | 152          | 139          | 164          | 146          | 133          | 156          | 140          |
|                      | Input Current (A) | 120V = 1.70A | 120V = 1.64A | 120V = 1.69A | 120V = 2.06A | 120V = 1.93A | 120V = 2.05A | 120V = 2.48A | 120V = 2.36A | 120V = 2.48A |
|                      |                   | 240V = 0.85A | 240V = 0.82A | 240V = 0.85A | 240V = 1.03A | 240V = 0.96A | 240V = 1.03A | 240V = 1.24A | 240V = 1.18A | 240V = 1.24A |
|                      |                   | 277V = 0.74A | 277V = 0.71A | 277V = 0.73A | 277V = 0.89A | 277V = 0.83A | 277V = 0.89A | 277V = 1.08A | 277V = 1.02A | 277V = 1.07A |

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Job Name:

Type:

Part #:

Notes:

ELECTRICAL DATA

| Model#                   | Measurements      | Low Lumens   |              |              | Mid Lumens   |              |              | High Lumens  |              |              |
|--------------------------|-------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
|                          |                   | 3000K        | 4000K        | 5000K        | 3000K        | 4000K        | 5000K        | 3000K        | 4000K        | 5000K        |
| HMPALPRO-24L-LKFS-T3-UNC | Lumens            | 13,690       | 14,765       | 14,335       | 20,219       | 22,312       | 21,049       | 24,196       | 26,737       | 24,925       |
|                          | Watts             | 99           | 96           | 100          | 153          | 149          | 155          | 192          | 183          | 193          |
|                          | Efficacy          | 139          | 154          | 143          | 132          | 150          | 135          | 126          | 146          | 129          |
|                          | Input Current (A) | 277V = 0.36A | 277V = 0.35A | 277V = 0.36A | 277V = 0.55A | 277V = 0.54A | 277V = 0.56A | 277V = 0.69A | 277V = 0.66A | 277V = 0.70A |
|                          |                   | 347V = 0.29A | 347V = 0.28A | 347V = 0.29A | 347V = 0.44A | 347V = 0.43A | 347V = 0.45A | 347V = 0.55A | 347V = 0.53A | 347V = 0.56A |
|                          |                   | 480V = 0.21A | 480V = 0.20A | 480V = 0.21A | 480V = 0.32A | 480V = 0.31A | 480V = 0.32A | 480V = 0.40A | 480V = 0.38A | 480V = 0.40A |
|                          |                   |              |              |              |              |              |              |              |              |              |
| Model#                   | Measurements      | Low Lumens   |              |              | Mid Lumens   |              |              | High Lumens  |              |              |
|                          |                   | 3000K        | 4000K        | 5000K        | 3000K        | 4000K        | 5000K        | 3000K        | 4000K        | 5000K        |
| HMPALPRO-24L-LKFS-T5-UNC | Lumens            | 13,916       | 14,870       | 14,480       | 20,405       | 22,381       | 21,093       | 24,505       | 26,840       | 25,382       |
|                          | Watts             | 98           | 95           | 99           | 152          | 147          | 153          | 192          | 183          | 193          |
|                          | Efficacy          | 142          | 157          | 147          | 134          | 153          | 138          | 128          | 147          | 131          |
|                          | Input Current (A) | 277V = 0.35A | 277V = 0.34A | 277V = 0.36A | 277V = 0.55A | 277V = 0.53A | 277V = 0.55A | 277V = 0.69A | 277V = 0.66A | 277V = 0.70A |
|                          |                   | 347V = 0.28A | 347V = 0.27A | 347V = 0.29A | 347V = 0.44A | 347V = 0.42A | 347V = 0.44A | 347V = 0.55A | 347V = 0.53A | 347V = 0.56A |
|                          |                   | 480V = 0.20A | 480V = 0.20A | 480V = 0.21A | 480V = 0.32A | 480V = 0.31A | 480V = 0.32A | 480V = 0.40A | 480V = 0.38A | 480V = 0.40A |
|                          |                   |              |              |              |              |              |              |              |              |              |
| Model#                   | Measurements      | Low Lumens   |              |              | Mid Lumens   |              |              | High Lumens  |              |              |
|                          |                   | 3000K        | 4000K        | 5000K        | 3000K        | 4000K        | 5000K        | 3000K        | 4000K        | 5000K        |
| HMPALPRO-40L-LKFS-T3-UNC | Lumens            | 28,485       | 31,402       | 29,907       | 33,629       | 36,449       | 35,047       | 39,660       | 43,432       | 40,963       |
|                          | Watts             | 203          | 198          | 202          | 246          | 236          | 246          | 297          | 283          | 296          |
|                          | Efficacy          | 140          | 159          | 148          | 137          | 154          | 142          | 133          | 154          | 138          |
|                          | Input Current (A) | 277V = 0.73A | 277V = 0.71A | 277V = 0.73A | 277V = 0.89A | 277V = 0.85A | 277V = 0.89A | 277V = 1.07A | 277V = 1.02A | 277V = 1.07A |
|                          |                   | 347V = 0.59A | 347V = 0.57A | 347V = 0.58A | 347V = 0.71A | 347V = 0.68A | 347V = 0.71A | 347V = 0.86A | 347V = 0.82A | 347V = 0.85A |
|                          |                   | 480V = 0.42A | 480V = 0.41A | 480V = 0.42A | 480V = 0.51A | 480V = 0.49A | 480V = 0.51A | 480V = 0.62A | 480V = 0.59A | 480V = 0.62A |
|                          |                   |              |              |              |              |              |              |              |              |              |
| Model#                   | Measurements      | Low Lumens   |              |              | Mid Lumens   |              |              | High Lumens  |              |              |
|                          |                   | 3000K        | 4000K        | 5000K        | 3000K        | 4000K        | 5000K        | 3000K        | 4000K        | 5000K        |
| HMPALPRO-40L-LKFS-T5-UNC | Lumens            | 28,731       | 31,840       | 30,214       | 33,918       | 36,884       | 35,413       | 39,890       | 44,057       | 41,651       |
|                          | Watts             | 202          | 197          | 202          | 246          | 235          | 246          | 302          | 283          | 299          |
|                          | Efficacy          | 142          | 161          | 150          | 138          | 157          | 144          | 132          | 156          | 139          |
|                          | Input Current (A) | 277V = 0.73A | 277V = 0.71A | 277V = 0.73A | 277V = 0.89A | 277V = 0.85A | 277V = 0.89A | 277V = 1.09A | 277V = 1.02A | 277V = 1.08A |
|                          |                   | 347V = 0.58A | 347V = 0.57A | 347V = 0.58A | 347V = 0.71A | 347V = 0.68A | 347V = 0.71A | 347V = 0.87A | 347V = 0.82A | 347V = 0.86A |
|                          |                   | 480V = 0.42A | 480V = 0.41A | 480V = 0.42A | 480V = 0.51A | 480V = 0.49A | 480V = 0.51A | 480V = 0.63A | 480V = 0.59A | 480V = 0.62A |
|                          |                   |              |              |              |              |              |              |              |              |              |

## PHOTOMETRIC DATA

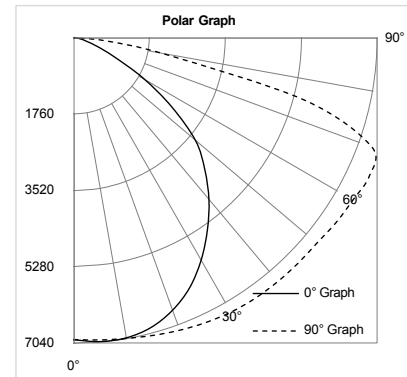
### HMPALPRO-24L-LKFS-T3

#### Luminaire Data

|                             |                                               |
|-----------------------------|-----------------------------------------------|
| Description                 | Multi Purpose Area Light PRO - LKFS 24L 5K T3 |
| Total Lumens                | 24,601                                        |
| Input Wattage               | 187                                           |
| Efficacy (lm/W)             | 131                                           |
| Max. Cd.                    | 7588.58 (90H, 67V)                            |
| IES Classification          | Type III                                      |
| Longitudinal Classification | Medium                                        |

#### Luminaire Classification Systems (LCS)

| LCS Zone     | Lumens        | %Lum          |
|--------------|---------------|---------------|
| FL 0-30      | 2,904         | 11.8%         |
| FM 30-60     | 6,494         | 26.4%         |
| FH 60-80     | 3,240         | 13.2%         |
| FVH 80-90    | 323           | 1.3%          |
| BL 0-30      | 2,684         | 10.9%         |
| BM 30-60     | 5,794         | 23.6%         |
| BH 60-80     | 2,933         | 11.9%         |
| BVH 80-90    | 229           | 0.9%          |
| UL 90-100    | 0             | 0.0%          |
| UH 100-180   | 0             | 0.0%          |
| <b>Total</b> | <b>24,601</b> | <b>100.0%</b> |
| BUG Rating   | B4-U0-G4      |               |



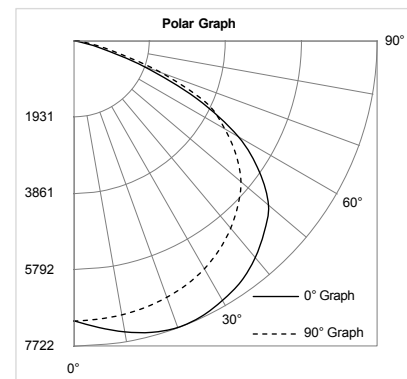
### HMPALPRO-24L-LKFS-T5

#### Luminaire Data

|                             |                                               |
|-----------------------------|-----------------------------------------------|
| Description                 | Multi Purpose Area Light PRO - LKFS 24L 5K T5 |
| Total Lumens                | 25,157                                        |
| Input Wattage               | 187                                           |
| Efficacy (lm/W)             | 135                                           |
| Max. Cd.                    | 7742.22 (337.5H, 22V)                         |
| IES Classification          | Type VS                                       |
| Longitudinal Classification | Very Short                                    |

#### Luminaire Classification Systems (LCS)

| LCS Zone     | Lumens        | %Lum          |
|--------------|---------------|---------------|
| FL 0-30      | 3,101         | 12.3%         |
| FM 30-60     | 7,290         | 29.0%         |
| FH 60-80     | 2,486         | 9.9%          |
| FVH 80-90    | 42            | 0.2%          |
| BL 0-30      | 2,784         | 11.1%         |
| BM 30-60     | 6,505         | 25.9%         |
| BH 60-80     | 2,884         | 11.5%         |
| BVH 80-90    | 66            | 0.3%          |
| UL 90-100    | 0             | 0.0%          |
| UH 100-180   | 0             | 0.0%          |
| <b>Total</b> | <b>25,157</b> | <b>100.0%</b> |
| BUG Rating   | B4-U0-G2      |               |



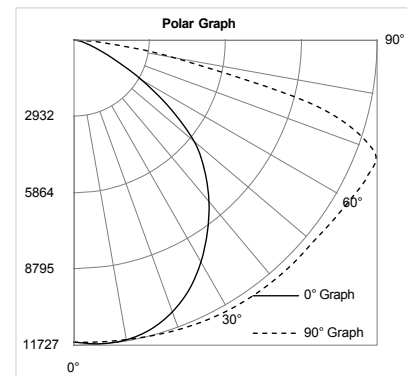
### HMPALPRO-40L-LKFS-T3

#### Luminaire Data

|                             |                                               |
|-----------------------------|-----------------------------------------------|
| Description                 | Multi Purpose Area Light PRO - LKFS 40L 5K T3 |
| Total Lumens                | 41,239                                        |
| Input Wattage               | 302                                           |
| Efficacy (lm/W)             | 136                                           |
| Max. Cd.                    | 12840.24 (270H, 67V)                          |
| IES Classification          | Type III                                      |
| Longitudinal Classification | Medium                                        |

#### Luminaire Classification Systems (LCS)

| LCS Zone     | Lumens        | %Lum          |
|--------------|---------------|---------------|
| FL 0-30      | 4,831         | 11.7%         |
| FM 30-60     | 10,848        | 26.3%         |
| FH 60-80     | 5,398         | 13.1%         |
| FVH 80-90    | 483           | 1.2%          |
| BL 0-30      | 4,488         | 10.9%         |
| BM 30-60     | 9,786         | 23.7%         |
| BH 60-80     | 5,010         | 12.1%         |
| BVH 80-90    | 394           | 1.0%          |
| UL 90-100    | 0             | 0.0%          |
| UH 100-180   | 0             | 0.0%          |
| <b>Total</b> | <b>41,239</b> | <b>100.0%</b> |
| BUG Rating   | B5-U0-G5      |               |



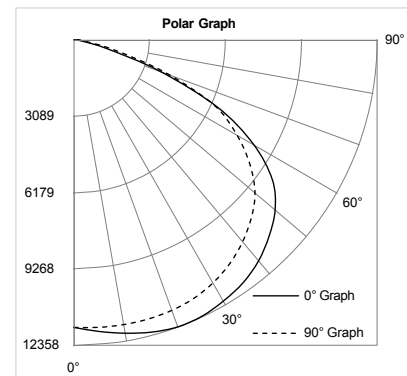
### HMPALPRO-40L-LKFS-T5

#### Luminaire Data

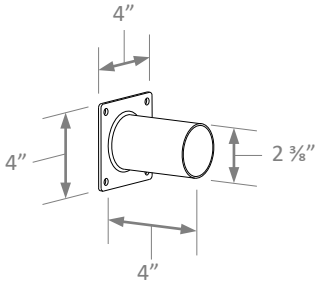
|                             |                                               |
|-----------------------------|-----------------------------------------------|
| Description                 | Multi Purpose Area Light PRO - LKFS 40L 5K T5 |
| Total Lumens                | 41,980                                        |
| Input Wattage               | 302                                           |
| Efficacy (lm/W)             | 139                                           |
| Max. Cd.                    | 12368.81 (360H, 22V)                          |
| IES Classification          | Type VS                                       |
| Longitudinal Classification | Very Short                                    |

#### Luminaire Classification Systems (LCS)

| LCS Zone     | Lumens        | %Lum          |
|--------------|---------------|---------------|
| FL 0-30      | 5,024         | 12.0%         |
| FM 30-60     | 12,076        | 28.8%         |
| FH 60-80     | 4,397         | 10.5%         |
| FVH 80-90    | 79            | 0.2%          |
| BL 0-30      | 4,671         | 11.1%         |
| BM 30-60     | 11,064        | 26.4%         |
| BH 60-80     | 4,581         | 10.9%         |
| BVH 80-90    | 89            | 0.2%          |
| UL 90-100    | 0             | 0.0%          |
| UH 100-180   | 0             | 0.0%          |
| <b>Total</b> | <b>41,980</b> | <b>100.0%</b> |
| BUG Rating   | B5-U0-G2      |               |

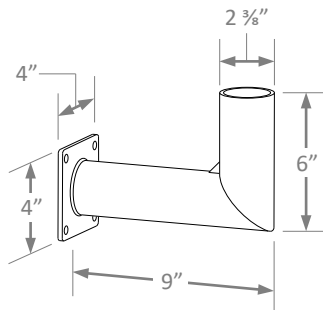


## MOUNTING ACCESSORIES



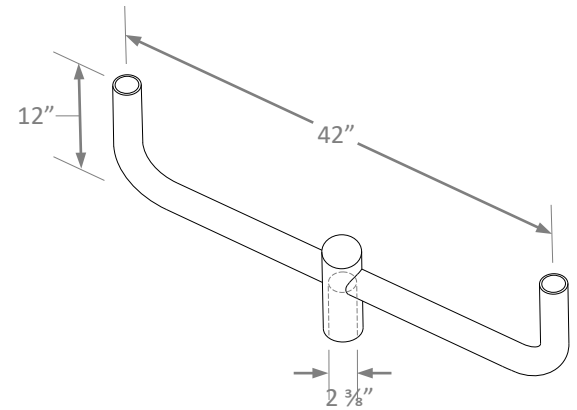
### Wall Mount Bracket

HMPALPRO-WMB



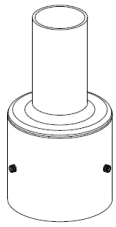
### Wall Mount Bracket, 90°

HMPALPRO-WMB90

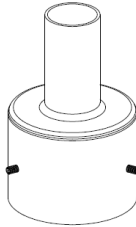


### Double 180° Bullhorn Mounting Bracket

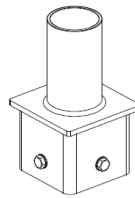
HMPALPRO-D180BH  
Bullhorn requires slip-fitter mount



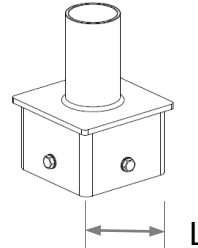
4SQR-SP-D



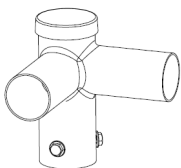
5SQR-SP-D



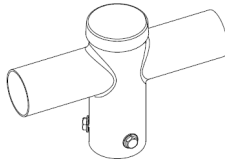
4SQ-SP-D



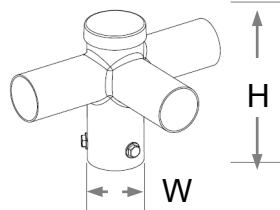
5SQ-SP-D



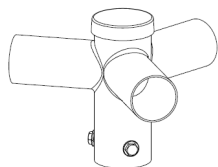
R60-SP2-90-D



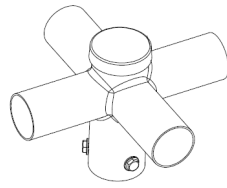
R60-SP2-180-D



R60-SP3-90-D



R60-SP3-120-D



R60-SP4-90-D

| Part Number   | Description                 | L    | W       | H    |
|---------------|-----------------------------|------|---------|------|
| 4SQR-SP-D     | 4" round pole tenon         | -    | 4.2"    | 8.6" |
| 5SQR-SP-D     | 5" round pole tenon         | -    | 5.2"    | 8.6" |
| 4SQ-SP-D      | 4" square pole tenon        | 3.6" | 3.6"    | 7.2" |
| 5SQ-SP-D      | 5" square pole tenon        | 4.6" | 4.6"    | 7.2" |
| R60-SP2-90-D  | Tenon adapter 90° double    | -    | ID 2.5" | 7.3" |
| R60-SP2-180-D | Tenon adapter 180° double   | -    | ID 2.5" | 7.3" |
| R60-SP3-90-D  | Tenon adapter 90° triple    | -    | ID 2.5" | 7.3" |
| R60-SP3-120-D | Tenon adapter 120° triple   | -    | ID 2.5" | 7.3" |
| R60-SP4-90-D  | Tenon adapter 90° quadruple | -    | ID 2.5" | 7.3" |