

# TRIBAY® EU60/OU60

23" SPUN ALUMINUM  
REFLECTOR

Cat. #		Approvals
Job	Type	



### APPLICATIONS

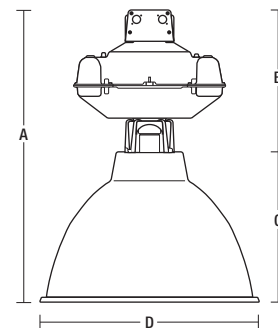
- Medium to high mounting heights.

### SPECIFICATIONS

- CH-EU60 Series enclosed & gasketed.
- CH-OU60 Series open, flow-through design.
- Heavy-duty, die cast Lektrocote® aluminum ballast housing stands up to the toughest environments for years of maintenance-free industrial service.
- Optically superior 23" Anodal® finished aluminum reflector.
- Extended thermal certification (65°C) assures long service life for ballast and electrical components.
- Optional Quick-Zone® electrical disconnect sets a new convenience standard for installation and maintenance.

### LISTINGS

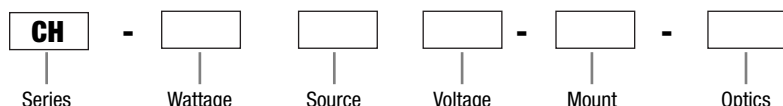
- EU60 suitable for wet locations.
- OU60 suitable for damp locations.
- Minimum 105°C supply conductors.



A	B	C	D
30 <sup>13</sup> / <sub>16</sub> "	15 <sup>3</sup> / <sub>16</sub> "	15 <sup>5</sup> / <sub>8</sub> "	23"
783 mm	386 mm	397 mm	584 mm

## ORDERING INFORMATION

ORDERING EXAMPLE: CH-10H5-M-EU60



### SERIES

**CH** Tribay®

### WATTAGE

**10** 1000 watt MH or Pulse Start MH or HPS<sup>1</sup>

### SOURCE

**H** MH - standard PLA  
**S** Standard CWA  
**D** MH, CWI (Canda)  
**P** Pulse Start MH

### VOLTAGE

**5** 480V  
**6** Tri-Tap® 120/277/347V  
**8** Quad-Tap® 120/208/240/277V

<sup>1</sup> 55°C standard, for 65°C use -HA option.  
 NOTE: Bottom enclosures are required unless lamps designated as "suitable for open use" are used.  
 NOTE: Options must be added as suffix to Catalog Number. Accessories must be ordered separately.

### MOUNT

**D** Quick Zone™ Electrical Disconnect wiring box shipped w/ fixture  
**E** Quick Zone™ Electrical Disconnect wiring box not shipped w/ fixture (box shipped as accessory **-CH-Q**)  
**L** Less Wiring Box (box shipped as accessory **-CH-B**)  
**M** With Wiring Box (standard construction)

### OPTICS

**EU60** 23" Enclosed Highbay Reflector (wet location)  
**OU60** 23" Open Highbay Reflector (damp location)  
**NA** No Optics, enclosed highbay  
**NB** No Optics, open highbay

### ACCESSORIES

Order separately

Catalog Number	Description
<b>CH-B</b>	Wiring Box with no electrical disconnect
<b>CH-Q</b>	Wiring Box with electrical disconnect (Quick-Zone®)
<b>CH-ENG-23</b>	Tempered Glass Lens Door for open 23"
<b>CH-LLR</b>	Lower Luminaire Retainer (for field installation)
<b>WG-23A</b>	Wire Guard for 23" highbay reflectors
<b>CH-TLR6</b>	6' Top Luminaire Retainer (for field installation)
<b>CH-TLR10</b>	10' Top Luminaire Retainer (for field installation)
<b>CH-TLR12</b>	12' Top Luminaire Retainer (for field installation)
<b>CH-TLR16</b>	16' Top Luminaire Retainer (for field installation)
<b>CH-F</b>	Single Fuse Kit - 120, 277, 347V (fuses not included)
<b>CH-FF</b>	Double Fuse Kit - 208, 240, 480V (fuses not incl.) (not for Canada)

### BOTTOM ENCLOSURE

**CH-ENG-23** Bottom Enclosure (OU only)

**OPTIONS FOR TRIBAY SERIES**

Factory installed — order with fixture by adding suffix

Suffix	Description
-AN	Anodized Housing/Reflector
-CFB	Charcoal Filter Breather (for enclosed reflectors only)
-C4HL	4' Cord, Hook/Loop - SO cord wired thru hook
-C6HL	6' Cord, Hook/Loop - SO cord wired thru hook
-C8HL	8' Cord, Hook/Loop - SO cord wired thru hook
-C10HL	10' Cord, Hook/Loop - SO cord wired thru hook
-C12HL	12' Cord, Hook/Loop - SO cord wired thru hook

CORD, HOOK/LOOP & 20A PLUG - SO CORD W/ PLUG WIRED THRU HOOK

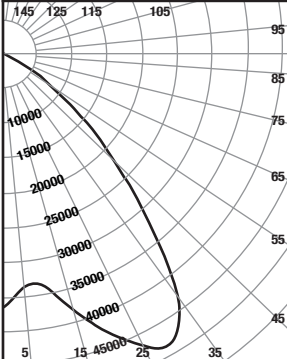
	LENGTH	X=	120V	208V	240V	277V	480V	347V
-C4HLP (X)	4'		1	2	3	4	5	C
-C6HLP (X)	6'		1	2	3	4	5	C
-C8HLP (X)	8'		1	2	3	4	5	C
-C10HLP (X)	10'		1	2	3	4	5	C
-C12HLP (X)	12'		1	2	3	4	5	C

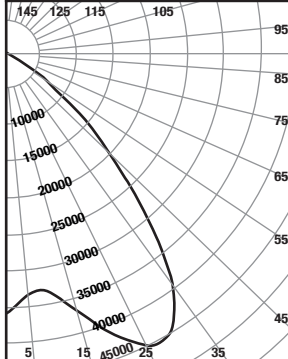
CORD, HOOK/LOOP & 15A 120V PLUG - SO CORD W/ PLUG WIRED THRU HOOK

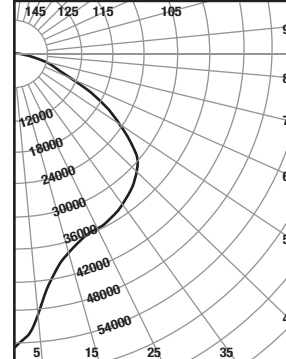
	LENGTH	X=	120V	208V	240V	277V	480V	347V
-C4HLPX-15A	4'		1	2	3	4	5	C
-C6HLPX-15A	6'		1	2	3	4	5	C
-C8HLPX-15A	8'		1	2	3	4	5	C
-C10HLPX-15A	10'		1	2	3	4	5	C
-C12HLPX-15A	12'		1	2	3	4	5	C

Suffix	Description
-DS	Intelligent Ignitor External Replacement Ignitor
-EM	Emergency Quartz Lamp Socket
-EX	Exclusionary Mogul Socket
-F1	Fusing 120 volt
-F2	Fusing 208 volt (not for Canada)
-F3	Fusing 240 volt (not for Canada)
-F4	Fusing 277 volt
-F5	Fusing 480 volt (not for Canada)
-FF	Fusing 347 volt
-LL	Shipped Less Lamp (250, 350, 400 watt MH Electro-Reg® and 600 watt HPS only)
-LRI	Lower Luminaire Retainer (installed)
-PC	Polycarbonate Refractor (LM only)
-QSS	Quartz Standby
-QST	Quartz Standby with time delay
-SLD-1	Switch Level Dimming with 120V control
-SLD-2	Switch Level Dimming with 24V control
-SLD-3	Switch Level Dimming with 277V control
-TRI(6)	6' Top Luminaire Retainer (installed)
-TRI(10)	10' Top Luminaire Retainer (installed)
-TRI(12)	12' Top Luminaire Retainer (installed)
-TRI(16)	16' Top Luminaire Retainer (installed)

**TRIBAY® EU60/OU60** For complete spacing-to-mounting height ratios, visit our web site at [www.hubbell-ltg.com](http://www.hubbell-ltg.com)

PHOTOMETRIC REPORT CAT. NO.: CH-10-H-X-X-OU60		CANDELA DISTRIBUTION																																											
		<table border="1"> <tr><td>0</td><td>36908</td></tr> <tr><td>5</td><td>34172</td></tr> <tr><td>15</td><td>38695</td></tr> <tr><td>25</td><td>47223</td></tr> <tr><td>35</td><td>43825</td></tr> <tr><td>45</td><td>22707</td></tr> <tr><td>55</td><td>8358</td></tr> <tr><td>65</td><td>1068</td></tr> <tr><td>75</td><td>252</td></tr> <tr><td>85</td><td>129</td></tr> <tr><td>90</td><td>143</td></tr> <tr><td>95</td><td>213</td></tr> <tr><td>105</td><td>120</td></tr> <tr><td>115</td><td>342</td></tr> <tr><td>125</td><td>242</td></tr> <tr><td>135</td><td>136</td></tr> <tr><td>145</td><td>123</td></tr> <tr><td>155</td><td>128</td></tr> <tr><td>165</td><td>158</td></tr> <tr><td>175</td><td>145</td></tr> <tr><td>180</td><td>0</td></tr> </table>		0	36908	5	34172	15	38695	25	47223	35	43825	45	22707	55	8358	65	1068	75	252	85	129	90	143	95	213	105	120	115	342	125	242	135	136	145	123	155	128	165	158	175	145	180	0
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TEST NO.: HP-06171A LUMINAIRE: Tribay-OU Optics: PILLAR 2 Reflective material: ALUMINUM Finish: BRIGHT, DIFFUSE Closure: OPEN LAMP(S): ONE MVR-1000/U EACH RATED: 110,000 LUMENS LINE POWER: 1080 WATTS		<b>ZONAL LUMEN SUMMARY</b> <table border="1"> <thead> <tr> <th>DEG ZONE</th> <th>LUMENS</th> <th>% LAMP</th> <th>% FIXT</th> </tr> </thead> <tbody> <tr><td>0-30</td><td>36112</td><td>32.8</td><td>39.6</td></tr> <tr><td>0-40</td><td>63076</td><td>57.3</td><td>68.2</td></tr> <tr><td>0-60</td><td>88374</td><td>80.3</td><td>97.0</td></tr> <tr><td>0-90</td><td>89917</td><td>81.7</td><td>98.7</td></tr> <tr><td>90-120</td><td>806</td><td>0.6</td><td>0.7</td></tr> <tr><td>90-180</td><td>1191</td><td>1.1</td><td>1.3</td></tr> <tr><td>0-180</td><td>91108</td><td>82.8</td><td>100.0</td></tr> </tbody> </table>		DEG ZONE	LUMENS	% LAMP	% FIXT	0-30	36112	32.8	39.6	0-40	63076	57.3	68.2	0-60	88374	80.3	97.0	0-90	89917	81.7	98.7	90-120	806	0.6	0.7	90-180	1191	1.1	1.3	0-180	91108	82.8	100.0										
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**  
EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20

RC	80	70	60	50	40	30	20	10	0		
0	70	50	30	10	50	30	10	50	30	10	0
1	93	91	88	86	91	89	87	85	85	84	82
2	88	84	80	77	86	82	79	76	80	77	75
3	84	78	73	70	82	77	73	69	74	71	68
4	78	71	66	63	77	70	65	62	68	64	61
5	74	66	60	56	72	65	60	56	63	59	56
6	69	61	55	51	68	60	55	51	58	54	50
7	64	55	50	46	63	55	49	46	54	49	45
8	60	51	45	41	59	50	45	41	49	44	41
9	56	46	40	39	54	46	40	36	44	39	36
10	50	40	34	30	49	39	34	30	39	33	30

**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**  
EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20

RC	80	70	60	50	40	30	20	10	0		
0	70	50	30	10	50	30	10	50	30	10	0
1	86	83	81	79	84	81	80	78	78	77	75
2	81	77	74	71	79	76	73	70	73	71	69
3	77	72	68	65	75	71	67	64	68	65	63
4	72	66	61	58	71	65	61	58	63	60	57
5	68	61	56	53	67	60	56	52	59	55	52
6	64	56	51	48	63	56	51	48	54	50	47
7	60	52	47	43	59	51	46	43	50	46	43
8	56	48	42	39	55	47	42	39	46	42	38
9	52	43	38	35	51	43	38	35	42	38	35
10	47	38	32	29	46	37	32	29	37	32	29

**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**  
EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20

RC	80	70	60	50	40	30	20	10	0		
0	70	50	30	10	50	30	10	50	30	10	0
1	91	87	85	82	88	86	83	81	82	80	78
2	84	79	74	70	82	77	73	69	74	71	68
3	78	71	65	61	76	70	64	60	67	63	60
4	72	63	57	52	70	62	56	52	60	55	51
5	66	57	50	45	65	56	50	45	54	49	45
6	61	51	45	40	60	50	44	40	49	43	39
7	56	46	39	35	55	45	39	35	44	38	34
8	52	42	35	30	51	41	35	30	40	34	30
9	48	38	31	27	47	37	31	27	36	31	27
10	44	33	27	22	43	33	26	22	32	26	22

## QUICK ESTIMATOR CH-OU60

LAMP QTY-LU/LP INPUT WATTS	SC @2/@4 LLF TEST #	ROOM WIDTH -/- MOUNTING HEIGHT (above floor)	ILLUMINANCE (MAINTAINED)				
			APPROXIMATE AREA PER LUMINAIRE (SQ. FT.) / APPROXIMATE WATTS PER SQ. FT. (w/Blst. Losses)				
			10 fc	20 fc	50 fc	75 fc	100 fc
MH1000/U	1.6/1.4	5 or more	5196 / 0.21	2598 / 0.42	1039 / 1.04	693 / 4.56	520 / 2.08
1 @ 110000	0.56	2	4157 / 0.26	2079 / 0.52	831 / 1.30	554 / 1.95	416 / 2.60
1080	HP-06171A	1	3301 / 0.33	1651 / 0.65	660 / 1.64	440 / 2.45	330 / 3.27

## QUICK ESTIMATOR CH-EU60

LAMP QTY-LU/LP INPUT WATTS	SC @2/@4 LLF TEST #	ROOM WIDTH -/- MOUNTING HEIGHT (above floor)	ILLUMINANCE (MAINTAINED)				
			APPROXIMATE AREA PER LUMINAIRE (SQ. FT.) / APPROXIMATE WATTS PER SQ. FT. (w/Blst. Losses)				
			10 fc	20 fc	50 fc	75 fc	100 fc
MH1000/U	1.5/1.3	5 or more	4662 / 0.23	2331 / 0.46	932 / 1.16	622 / 1.74	466 / 2.32
1 @ 110000	0.54	2	3766 / 0.29	1883 / 0.57	753 / 1.43	502 / 2.15	377 / 2.87
1080	HP-06186A	1	2989 / 0.36	1494 / 0.72	598 / 1.81	398 / 2.71	299 / 3.61

To determine the number of luminaires required for a given illuminance level:

**Step 1:** Determine room size per column three below as 5 or more (Large Room), 2 (Medium Room) or 1 (Small Room).

**Step 2:** For desired footcandle level, per room size, divide floor area of space by "Approximate Area per Luminaire" from chart.

**Step 3:** If required, adjust result of Step 2 to "whole number." Result is quantity of luminaires required to provide approximate, average maintained illuminance selected.

Due to our continued efforts to improve our products, product specifications are subject to change without notice.

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**Industrial Lighting**

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