

**TRIBAY®**  
**EU/OU SERIES**  
 19" SPUN ALUMINUM  
 REFLECTOR

Cat. #		Approvals
Job	Type	



**APPLICATIONS**

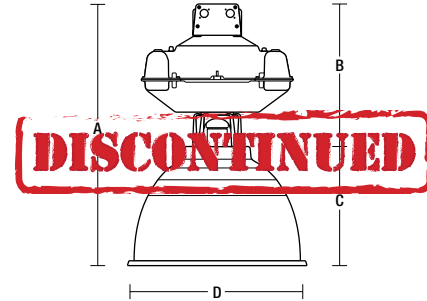
- Low to medium mounting heights.

**SPECIFICATIONS**

- CH-EU Series enclosed & gasketed.
- CH-OU 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 19" 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**

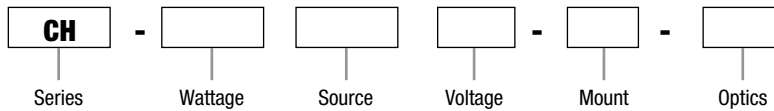
- EU suitable for wet locations.
- OU suitable for damp locations
- 250 to 400W requires minimum 90°C supply wire.
- 400W plus to 750W requires minimum 105°C supply wires.



A	B	C	D
27 <sup>7</sup> / <sub>8</sub> "	15 <sup>3</sup> / <sub>16</sub> "	12 <sup>7</sup> / <sub>8</sub> "	19"
708 mm	386 mm	327 mm	483 mm

**ORDERING INFORMATION**

ORDERING EXAMPLE: CH-40P8-M-OU



**SERIES**

**CH** Tribay®

**WATTAGE**

- 25** 250 watt, Pulse Start MH, HPS
- 32** 320 watt Pulse Start MH only
- 35** 350 watt Pulse Start MH
- 40** 400 watt, Pulse Start MH, HPS
- 45** 450 watt Pulse Start MH only
- 75** 750 watt Pulse Start MH only<sup>2</sup>

**SOURCE**

- S** Standard CWA, AL, HPS
- F** HPS, CWI (Canada)
- D** MH, CWI (Canada)
- P** Pulse Start MH

<sup>1</sup> Single voltage designations for isolated secondary ballast only..

<sup>2</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.

**VOLTAGE**

- 1** 120V<sup>1</sup>
- 2** 208V<sup>1</sup>
- 3** 240V<sup>1</sup>
- 4** 277V<sup>1</sup>
- 5** 480V<sup>1</sup>
- 6** Tri-Tap® 120/277/347V
- 7** 600V (isolated secondary only)
- 8** Quad-Tap® 120/208/240/277V
- O** Less Ballast & Cap (250 & 400W only)
- E** 220/240V 50 Hz
- F** 347V<sup>1</sup>

**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
- M** With Wiring Box (standard const.)

**OPTICS**

- EU** 19" Enclosed Highbay Reflector (wet location)
- OU** 19" 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-ENC-19</b>	Tempered Glass Lens Door for open 19"
<b>CH-LLR</b>	Lower Luminaire Retainer (for field installation)
<b>WG-19</b>	Wire Guard for 19" 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-ENC-19** Bottom Enclosure (OU only)

**OPTIONS FOR TRIBAY SERIES**

Factory installed — order with fixture by adding suffix

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

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

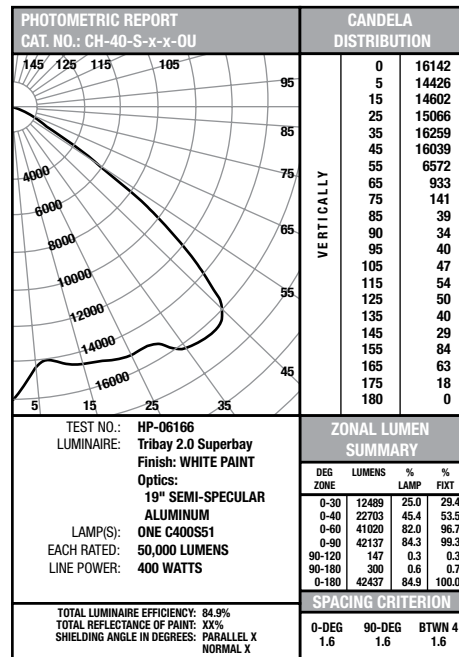
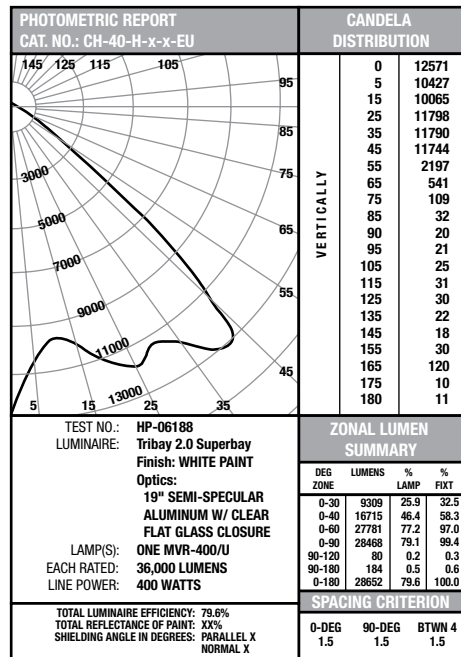
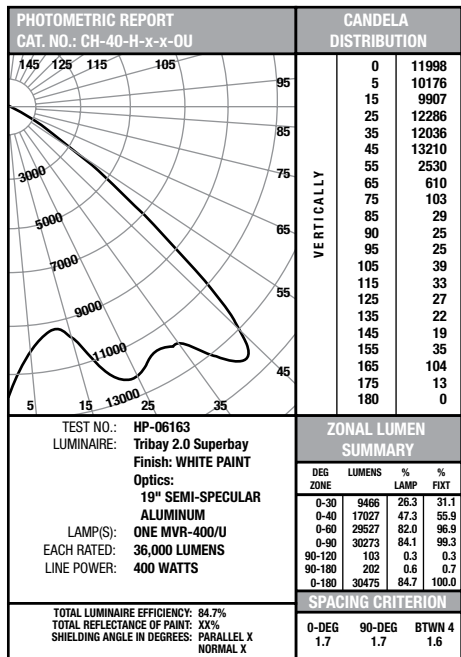
	LENGTH	X=	120V	208V	240V	277V	480V	347V
<b>-C4HLP (X)</b>	4'		1	2	3	4	5	C
<b>-C6HLP (X)</b>	6'		1	2	3	4	5	C
<b>-C8HLP (X)</b>	8'		1	2	3	4	5	C
<b>-C10HLP (X)</b>	10'		1	2	3	4	5	C
<b>-C12HLP (X)</b>	12'		1	2	3	4	5	C

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

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

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

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



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	70	50	30	10	0
1	101	101	101	98	98	98	94	94	90
2	89	82	89	87	83	88	86	85	83
3	84	77	72	68	82	76	71	68	74
4	78	70	64	60	76	69	64	60	67
5	72	64	58	53	71	63	57	53	61
6	67	58	52	47	66	57	51	47	56
7	62	52	46	41	61	52	46	41	49
8	57	47	41	36	56	46	40	36	45
9	52	42	35	31	51	41	35	31	39
10	46	35	29	25	45	35	29	25	34

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	70	50	30	10	0
1	89	87	84	82	87	85	83	81	81
2	84	79	76	73	82	78	75	72	70
3	79	73	68	65	77	72	68	64	70
4	74	66	61	57	72	65	61	57	64
5	69	61	55	51	67	60	55	51	58
6	64	55	49	45	62	54	49	45	53
7	59	50	44	40	58	49	44	40	48
8	54	45	39	35	53	44	39	35	43
9	50	40	34	30	49	40	34	30	38
10	44	34	28	24	43	34	28	24	33

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	70	50	30	10	0
1	95	92	89	87	93	90	88	85	86
2	89	84	80	77	87	82	79	75	79
3	83	77	71	67	81	75	71	67	73
4	77	69	63	59	75	68	63	58	66
5	72	63	56	52	70	62	56	52	60
6	66	57	50	46	65	56	50	45	54
7	61	51	44	40	60	50	44	39	48
8	56	46	39	34	55	45	39	34	44
9	51	41	34	30	50	40	34	30	38
10	46	35	29	24	45	34	28	24	33

## QUICK ESTIMATOR CH-OU

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
			MS250/BU/PS (ENC) 1 @ 23800 292	2.0/1.7 0.57 HP-06476	5 or more 2 1	1075 / 0.27 830 / 0.35 613 / 0.48	538 / 0.54 415 / 0.70 306 / 0.95
MS400/BU/PS 1 @ 44000 452	1.7/1.6 0.60 HP-06163	5 or more 2 1	2265 / 0.20 1764 / 0.26 1317 / 0.34	1132 / 0.40 882 / 0.51 658 / 0.69	453 / 1.00 353 / 1.28 263 / 1.72	302 / 1.50 235 / 1.92 176 / 2.57	226 / 2.00 176 / 2.56 132 / 3.43
MH400/U 1 @ 36000 458	1.7/1.6 0.57 HP-06163	5 or more 2 1	1774 / 0.26 1382 / 0.33 1031 / 0.44	887 / 0.52 691 / 0.66 516 / 0.89	355 / 1.29 276 / 1.66 206 / 2.22	236 / 1.94 184 / 2.49 137 / 3.33	177 / 2.58 138 / 3.31 103 / 4.44

## QUICK ESTIMATOR CH-EU

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
			MS250/BU/PS 1 @ 23800 292	1.9/1.6 0.59 HP-06467	5 or more 2 1	1128 / 0.26 877 / 0.33 655 / 0.45	564 / 0.52 439 / 0.67 327 / 0.89
MS400/BU/PS 1 @ 44000 452	1.5/1.5 0.59 HP-06188	5 or more 2 1	2086 / 0.22 1648 / 0.27 1236 / 0.37	1043 / 0.43 824 / 0.55 618 / 0.73	417 / 1.08 330 / 1.37 247 / 1.83	278 / 1.63 220 / 2.06 165 / 2.74	209 / 2.17 165 / 2.74 124 / 3.66
MH400/U 1 @ 36000 458	1.5/1.5 0.56 HP-06188	5 or more 2 1	1633 / 0.28 1291 / 0.35 968 / 0.47	817 / 0.56 645 / 0.71 484 / 0.95	327 / 1.40 258 / 1.77 194 / 2.37	218 / 2.10 172 / 2.66 129 / 3.55	163 / 2.80 129 / 3.55 97 / 4.73

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