

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: EPHESUS

Report Number: P574942

Luminaire Tested: **EPH-VN-04-750-U-5WQ**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574942
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-04-750-U-5WQ
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ 5WQ distribution lens
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

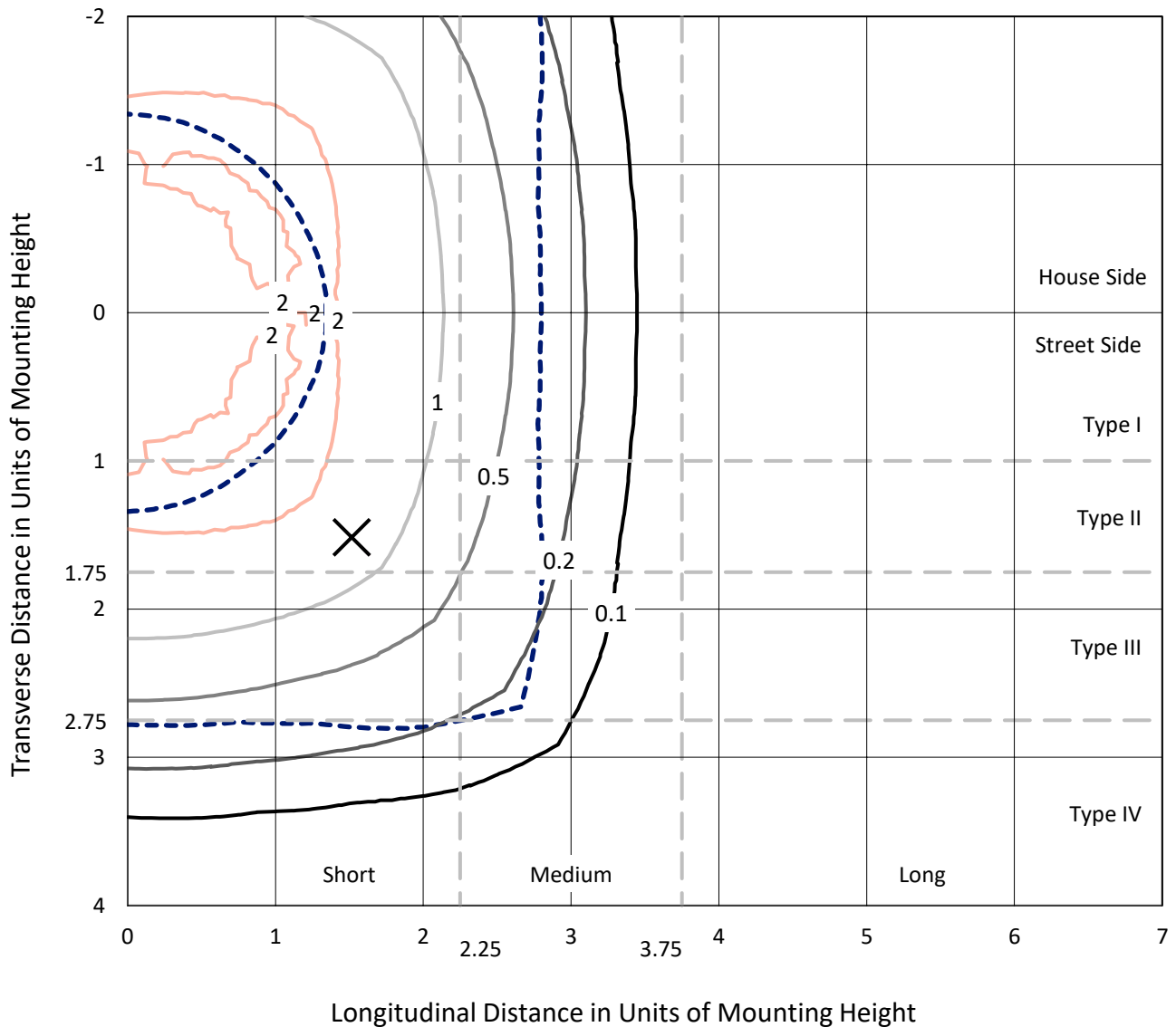
Lumens per Lamp: N/A
Luminaire Lumens: 36712.6 lumens
Efficiency: N/A
Efficacy: 120.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 303.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Iso-Footcandle Lines of Horizontal Illumination

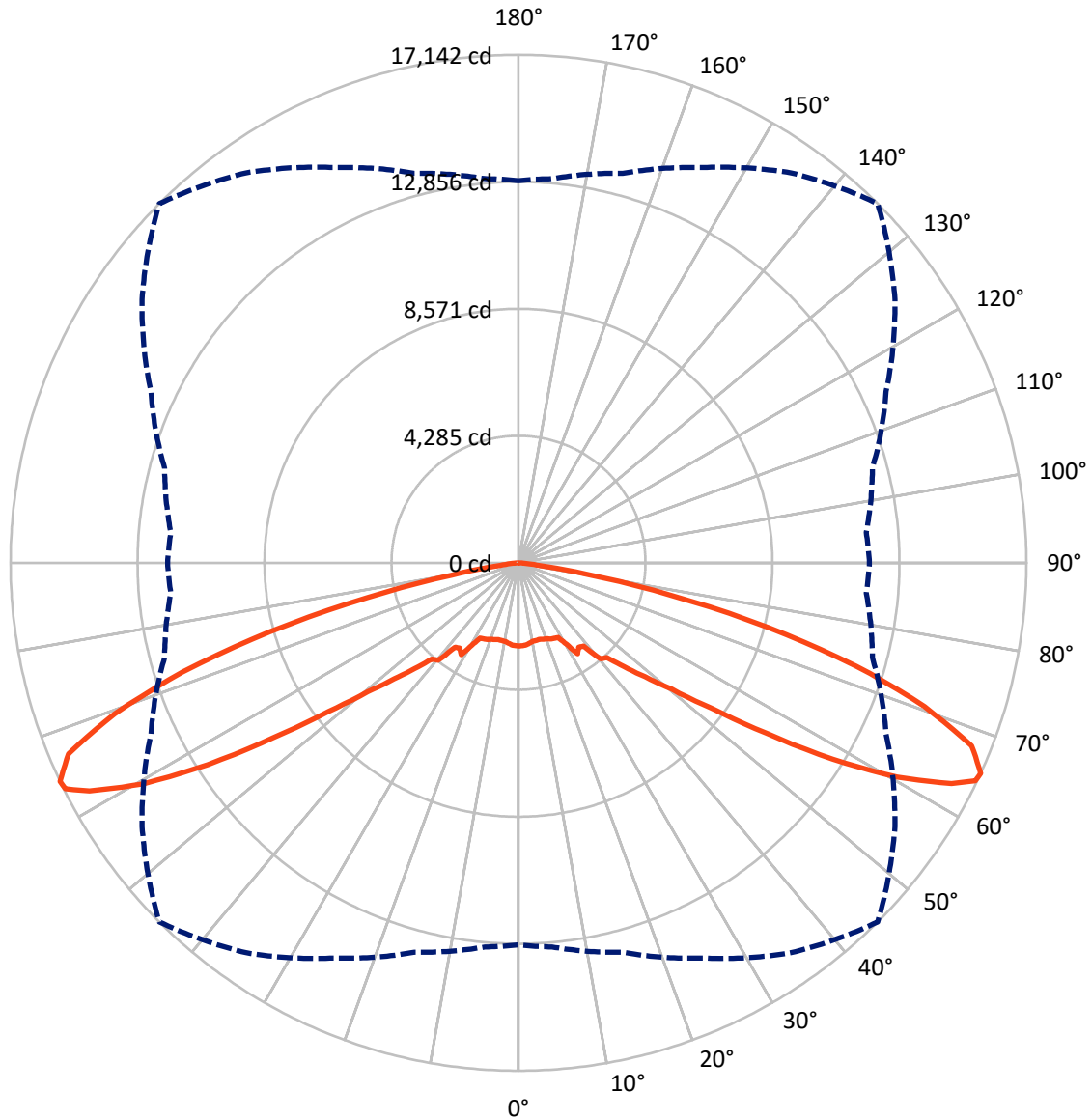
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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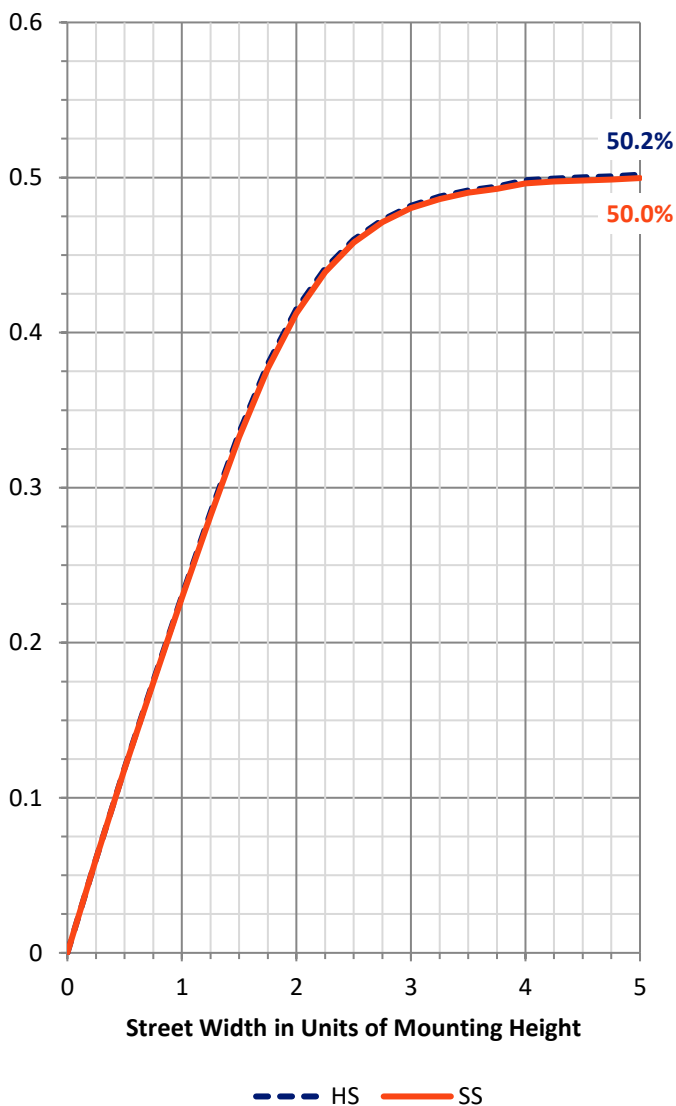
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18356.3	0.0	18356.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18356.3	0.0	18356.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	36712.6	0.0	36712.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.4	0.7
10°-20°	773.8	2.1
20°-30°	1339.3	3.6
30°-40°	2227.0	6.1
40°-50°	4017.9	10.9
50°-60°	8950.5	24.4
60°-70°	13339.1	36.3
70°-80°	5527.9	15.1
80°-90°	273.8	0.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	36712.6	100.0
0°-180°	36712.6	100.0

Coefficient of Utilization

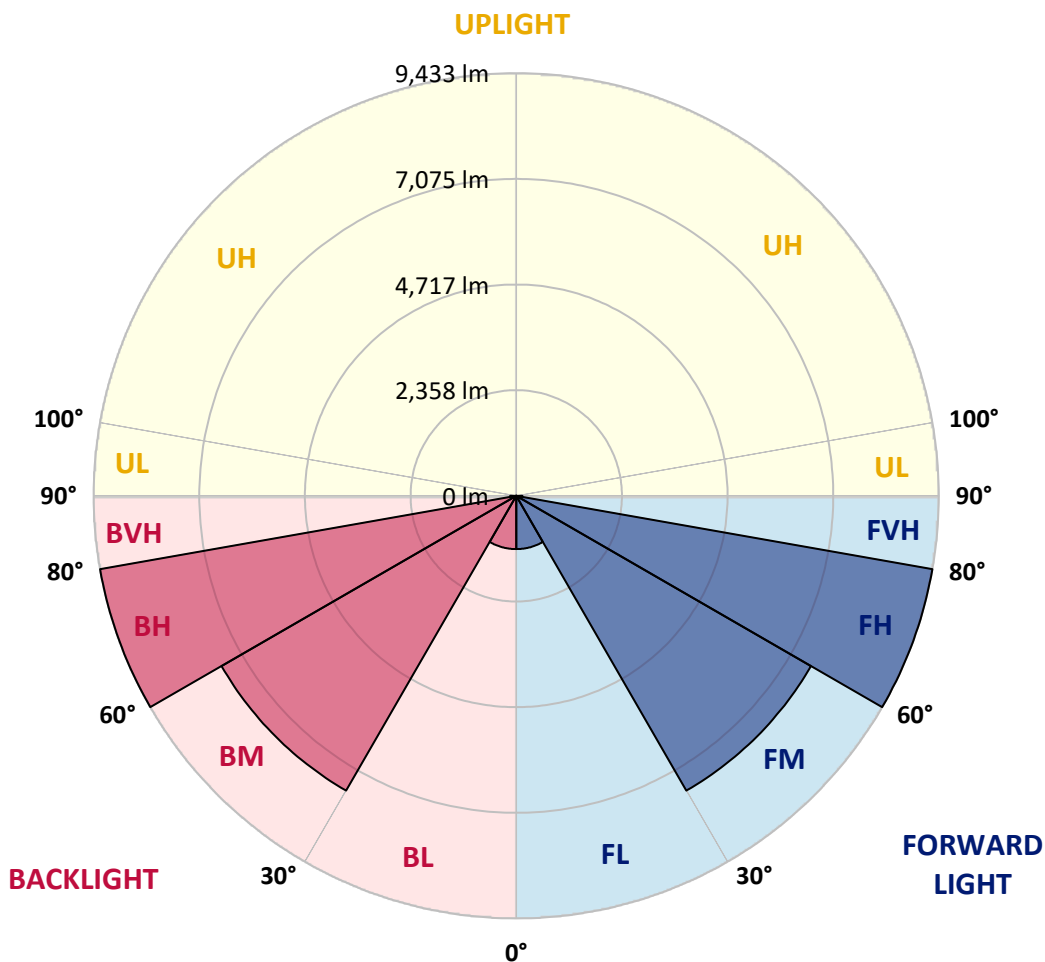


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1188.2	3.2			
FM (30°-60°)	7597.7	20.7			
FH (60°-80°)	9433.5	25.7			G4/12000
FVH (80°-90°)	136.9	0.4			G2/225
BL (0°-30°)	1188.2	3.2	B3/2500		
BM (30°-60°)	7597.7	20.7	B4/8500		
BH (60°-80°)	9433.5	25.7	B5		G4/12000
BVH (80°-90°)	136.9	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2806.9	2806.9	2806.9	2806.9	2806.9	2806.9	2806.9	2806.9	2806.9	2806.9
2.5°	2774.5	2782.6	2778.5	2778.5	2790.7	2798.8	2802.8	2843.4	2827.2	2839.4
5°	2782.6	2782.6	2790.7	2782.6	2790.7	2782.6	2790.7	2778.5	2790.7	2798.8
7.5°	2766.3	2758.2	2746.1	2746.1	2742.0	2733.9	2721.7	2754.2	2737.9	2750.1
10°	2770.4	2758.2	2717.7	2725.8	2689.3	2689.3	2697.4	2697.4	2733.9	2774.5
12.5°	2770.4	2746.1	2733.9	2681.2	2681.2	2685.2	2705.5	2713.6	2737.9	2754.2
15°	2770.4	2758.2	2737.9	2669.0	2685.2	2677.1	2697.4	2697.4	2750.1	2778.5
17.5°	2786.6	2794.7	2758.2	2693.3	2697.4	2713.6	2701.4	2713.6	2778.5	2798.8
20°	2790.7	2758.2	2746.1	2705.5	2742.0	2733.9	2729.8	2754.2	2774.5	2811.0
22.5°	2782.6	2794.7	2746.1	2742.0	2774.5	2790.7	2798.8	2770.4	2794.7	2819.1
25°	2851.5	2806.9	2794.7	2786.6	2802.8	2819.1	2811.0	2835.3	2835.3	2863.7
27.5°	3038.1	3042.2	3017.8	2920.5	2888.0	2851.5	2867.7	2932.6	3009.7	3070.6
30°	3123.3	3139.5	3204.4	3188.2	3176.0	3188.2	3184.1	3200.4	3208.5	3212.5
32.5°	3200.4	3192.2	3163.8	3236.9	3476.2	3658.7	3484.3	3245.0	3192.2	3176.0
35°	3480.2	3480.2	3419.4	3326.1	3451.8	3496.5	3415.3	3301.8	3366.7	3500.5
37.5°	3841.2	3788.5	3812.8	3800.7	3662.8	3565.4	3707.4	3780.4	3792.6	3788.5
40°	4056.2	4019.7	3983.2	4048.1	4173.8	4263.1	4137.3	3962.9	4007.5	4096.8
42.5°	4547.0	4453.7	4461.8	4396.9	4392.9	4364.5	4336.1	4348.3	4413.2	4514.6
45°	5050.0	5094.6	5066.2	4944.5	5001.3	5001.3	4920.2	4981.0	5013.5	5131.1
47.5°	5836.9	5816.6	5828.8	5719.3	5715.2	5743.6	5715.2	5719.3	5820.7	5812.6
50°	6757.7	6814.4	6830.7	6777.9	6713.0	6700.9	6656.3	6713.0	6773.9	6777.9
52.5°	8031.3	8092.2	8092.2	8108.4	8189.5	8148.9	8140.8	8144.9	8027.3	7946.1
55°	9637.6	9657.9	9726.8	9868.8	10116.2	10148.7	9994.5	9925.6	9710.6	9580.8
57.5°	11223.6	11304.7	11495.3	11864.4	12168.6	12501.3	12055.1	11600.8	11178.9	10972.1
60°	12541.8	12659.5	13024.5	13539.6	14383.3	14687.6	13933.1	13154.3	12298.4	11665.7
62.5°	13162.4	13345.0	13653.2	14695.7	15961.2	16399.3	15291.9	13876.3	12578.3	11969.9
64°	13166.5	13194.9	13811.4	14935.0	16237.0	17084.8	15620.5	13876.3	12647.3	11896.9
65°	12894.7	13012.3	13608.6	14716.0	16062.6	17141.6	15506.9	13685.7	12363.3	11779.3
67.5°	11661.6	11657.6	12209.2	13308.4	15178.4	16496.6	14541.5	12618.9	11661.6	11028.9
70°	8846.6	8988.6	9515.9	10866.6	13134.0	14545.6	12716.2	10724.6	9532.1	9025.1
72.5°	5293.4	5479.9	6153.3	7800.1	10201.4	11917.2	10091.9	7934.0	6498.1	5694.9
75°	2413.4	2551.4	3013.8	4356.4	6798.2	8712.8	6838.8	4587.6	3289.6	2778.5
77.5°	677.4	762.6	1018.1	1999.7	3731.7	5224.4	3837.2	2210.6	1435.9	1192.5
80°	304.2	320.4	361.0	486.7	1184.4	2303.9	1586.0	811.2	539.5	446.2
82.5°	166.3	178.5	235.3	251.5	336.7	612.5	523.3	381.3	324.5	259.6
85°	93.3	97.3	133.9	133.9	162.2	178.5	190.6	202.8	198.8	146.0
87.5°	28.4	32.4	40.6	40.6	40.6	40.6	64.9	89.2	97.3	69.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C



90°
2806.9
2827.2
2811.0
2770.4
2786.6
2794.7
2798.8
2827.2
2843.4
2847.5
2900.2
3082.7
3200.4
3192.2
3508.6
3829.1
4060.3
4530.8
5147.3
5767.9
6741.4
7986.7
9682.2
11008.6
11921.2
11957.7
12034.8
11844.2
11105.9
8996.7
5715.2
2705.5
1168.2
425.9
251.5
142.0
69.0
0.0

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