

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: P574929

Luminaire Tested: **EPH-VN-03-735-U-5WQ**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574929
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-03-735-U-5WQ
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ 5WQ distribution lens
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

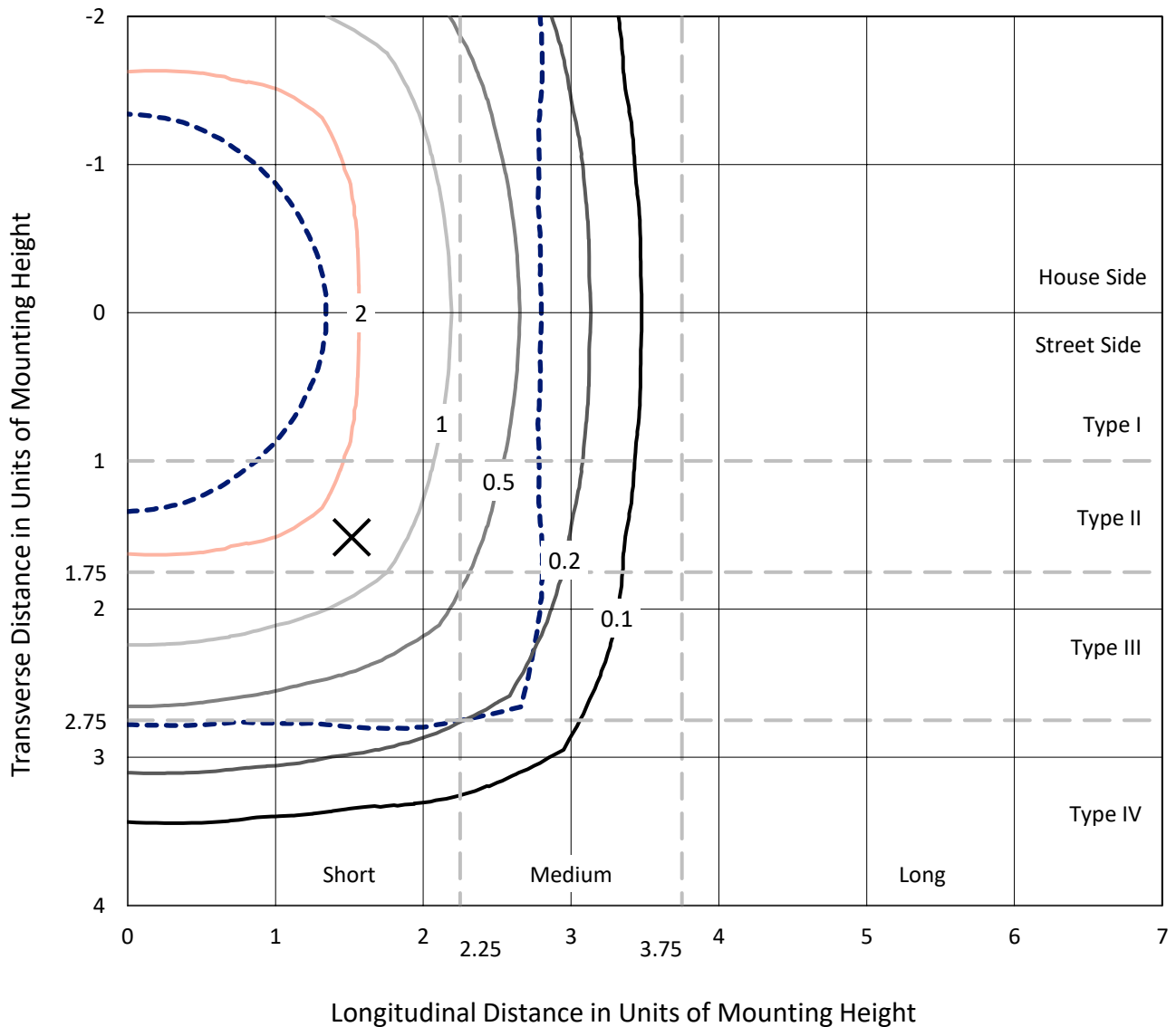
Lumens per Lamp: N/A
Luminaire Lumens: 27300.6 lumens
Efficiency: N/A
Efficacy: 117.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 232.1
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

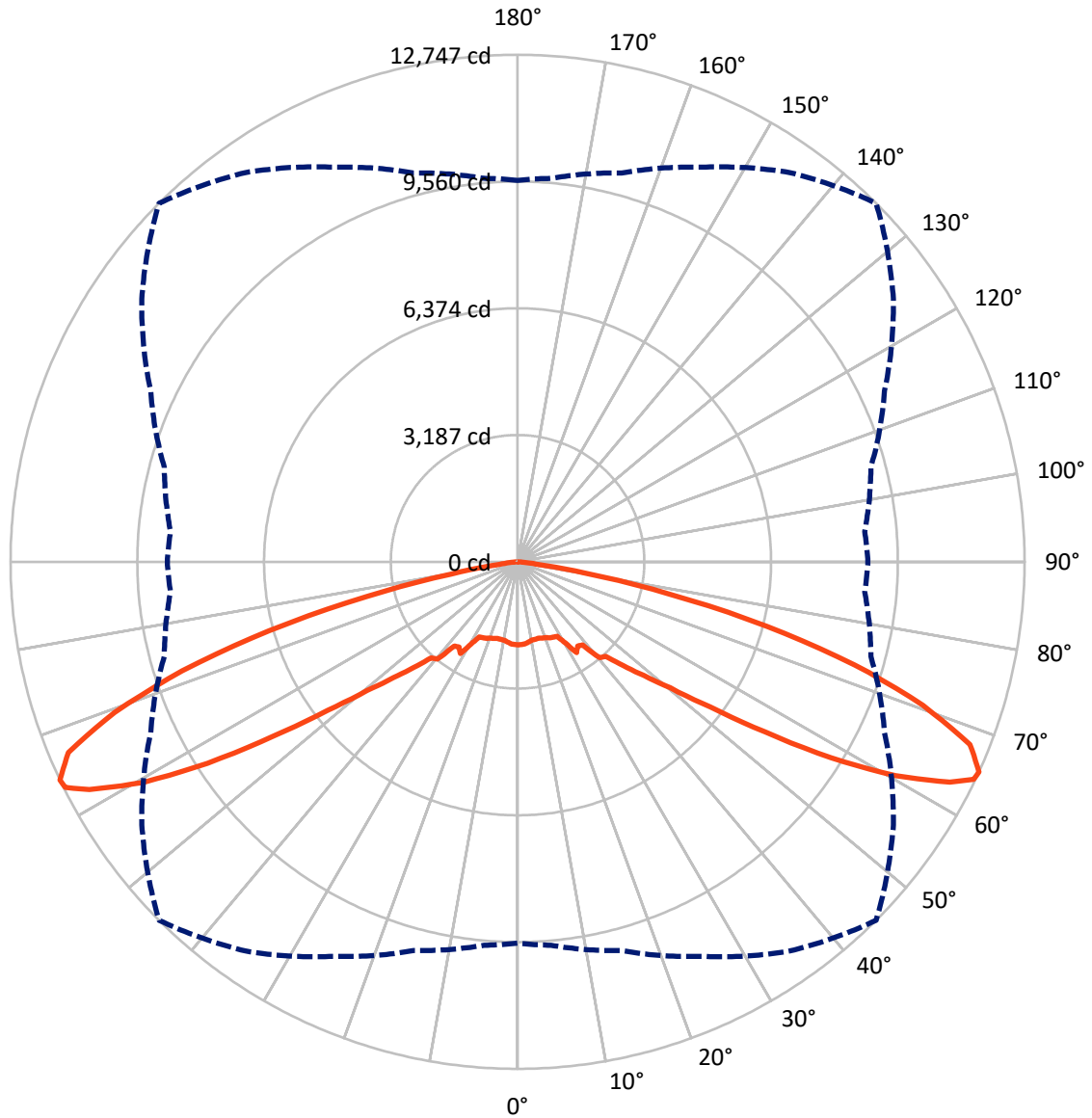
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 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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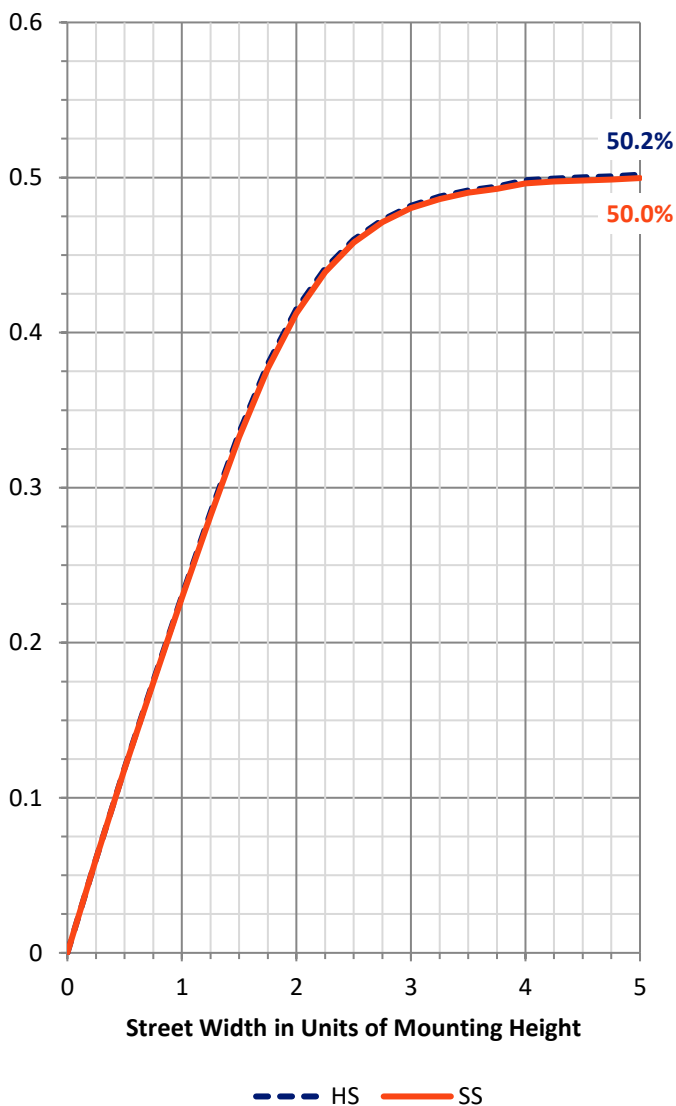
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13650.3	0.0	13650.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13650.3	0.0	13650.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	27300.6	0.0	27300.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.9	0.7
10°-20°	575.4	2.1
20°-30°	996.0	3.6
30°-40°	1656.1	6.1
40°-50°	2987.8	10.9
50°-60°	6655.8	24.4
60°-70°	9919.3	36.3
70°-80°	4110.7	15.1
80°-90°	203.6	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°	27300.6	100.0
0°-180°	27300.6	100.0

Coefficient of Utilization



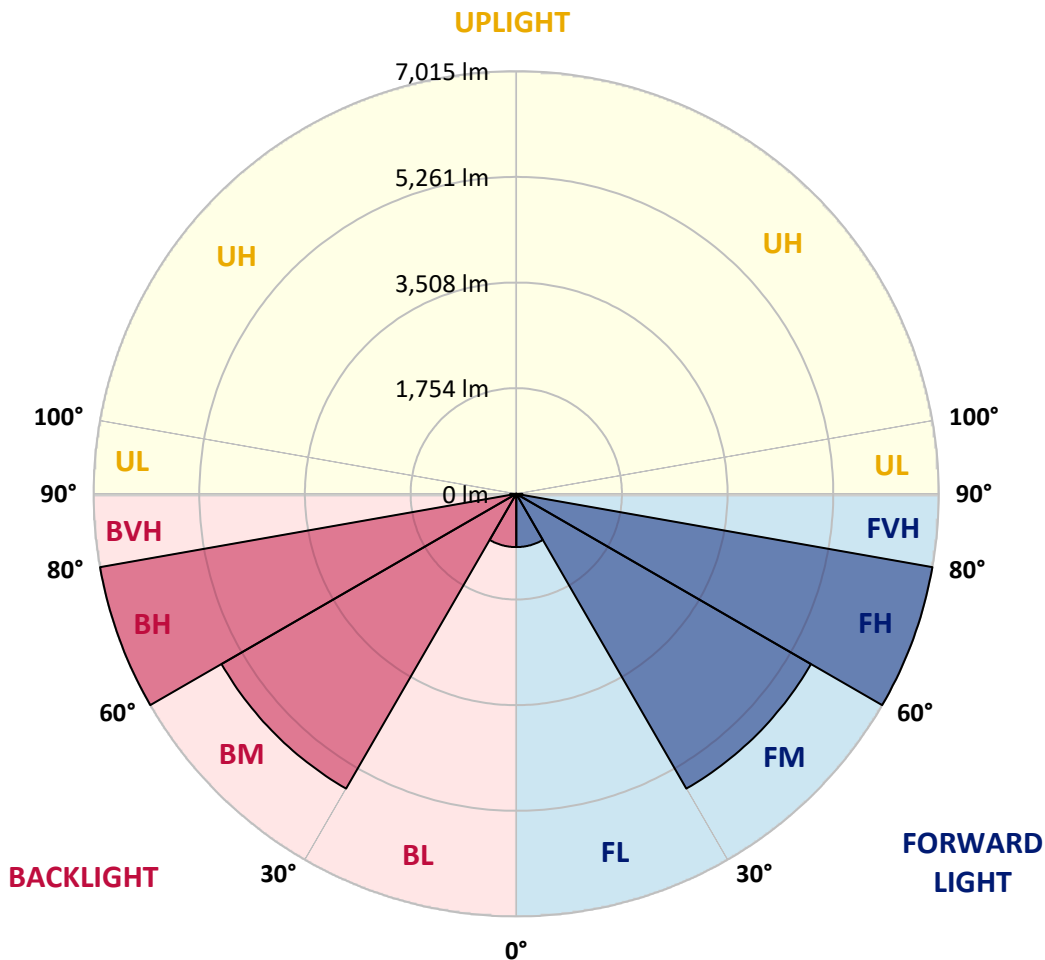
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	883.6	3.2			
FM (30°-60°)	5649.9	20.7			
FH (60°-80°)	7015.0	25.7			G3/7500
FVH (80°-90°)	101.8	0.4			G2/225
BL (0°-30°)	883.6	3.2	B2/1000		
BM (30°-60°)	5649.9	20.7	B4/8500		
BH (60°-80°)	7015.0	25.7	B5		G3/7500
BVH (80°-90°)	101.8	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-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2087.3	2087.3	2087.3	2087.3	2087.3	2087.3	2087.3	2087.3	2087.3	2087.3
2.5°	2063.2	2069.2	2066.2	2066.2	2075.2	2081.3	2084.3	2114.4	2102.4	2111.4
5°	2069.2	2069.2	2075.2	2069.2	2075.2	2069.2	2075.2	2066.2	2075.2	2081.3
7.5°	2057.1	2051.1	2042.1	2042.1	2039.0	2033.0	2024.0	2048.1	2036.0	2045.1
10°	2060.2	2051.1	2020.9	2027.0	1999.8	1999.8	2005.9	2005.9	2033.0	2063.2
12.5°	2060.2	2042.1	2033.0	1993.8	1993.8	1996.8	2011.9	2017.9	2036.0	2048.1
15°	2060.2	2051.1	2036.0	1984.7	1996.8	1990.8	2005.9	2005.9	2045.1	2066.2
17.5°	2072.2	2078.2	2051.1	2002.8	2005.9	2017.9	2008.9	2017.9	2066.2	2081.3
20°	2075.2	2051.1	2042.1	2011.9	2039.0	2033.0	2030.0	2048.1	2063.2	2090.3
22.5°	2069.2	2078.2	2042.1	2039.0	2063.2	2075.2	2081.3	2060.2	2078.2	2096.3
25°	2120.5	2087.3	2078.2	2072.2	2084.3	2096.3	2090.3	2108.4	2108.4	2129.5
27.5°	2259.2	2262.2	2244.1	2171.8	2147.6	2120.5	2132.5	2180.8	2238.1	2283.4
30°	2322.6	2334.6	2382.9	2370.8	2361.8	2370.8	2367.8	2379.9	2385.9	2388.9
32.5°	2379.9	2373.8	2352.7	2407.0	2585.0	2720.7	2591.0	2413.1	2373.8	2361.8
35°	2588.0	2588.0	2542.8	2473.4	2566.9	2600.1	2539.7	2455.3	2503.6	2603.1
37.5°	2856.5	2817.2	2835.3	2826.3	2723.7	2651.3	2756.9	2811.2	2820.3	2817.2
40°	3016.3	2989.2	2962.0	3010.3	3103.8	3170.2	3076.7	2946.9	2980.1	3046.5
42.5°	3381.3	3311.9	3318.0	3269.7	3266.7	3245.6	3224.5	3233.5	3281.8	3357.2
45°	3755.3	3788.5	3767.4	3676.9	3719.1	3719.1	3658.8	3704.0	3728.2	3815.7
47.5°	4340.5	4325.4	4334.5	4253.0	4250.0	4271.1	4250.0	4253.0	4328.4	4322.4
50°	5025.2	5067.4	5079.5	5040.3	4992.0	4983.0	4949.8	4992.0	5037.3	5040.3
52.5°	5972.3	6017.6	6017.6	6029.6	6090.0	6059.8	6053.8	6056.8	5969.3	5909.0
55°	7166.8	7181.9	7233.1	7338.7	7522.7	7546.8	7432.2	7380.9	7221.1	7124.6
57.5°	8346.2	8406.5	8548.3	8822.8	9049.0	9296.3	8964.5	8626.7	8313.0	8159.2
60°	9326.5	9414.0	9685.4	10068.5	10695.9	10922.1	10361.1	9781.9	9145.5	8675.0
62.5°	9788.0	9923.7	10153.0	10928.1	11869.2	12195.0	11371.5	10318.8	9353.6	8901.2
64°	9791.0	9812.1	10270.6	11106.1	12074.4	12704.8	11615.9	10318.8	9404.9	8846.9
65°	9588.9	9676.4	10119.8	10943.2	11944.6	12747.0	11531.4	10177.1	9193.8	8759.4
67.5°	8671.9	8668.9	9079.1	9896.6	11287.1	12267.4	10813.5	9383.8	8671.9	8201.4
70°	6578.6	6684.2	7076.3	8080.7	9766.9	10816.5	9456.2	7975.2	7088.4	6711.3
72.5°	3936.3	4075.1	4575.8	5800.4	7586.1	8862.0	7504.6	5899.9	4832.2	4234.9
75°	1794.7	1897.3	2241.1	3239.5	5055.4	6479.1	5085.5	3411.5	2446.2	2066.2
77.5°	503.7	567.1	757.1	1487.0	2775.0	3885.0	2853.4	1643.9	1067.8	886.8
80°	226.2	238.3	268.5	362.0	880.8	1713.3	1179.4	603.3	401.2	331.8
82.5°	123.7	132.7	174.9	187.0	250.4	455.5	389.1	283.5	241.3	193.0
85°	69.4	72.4	99.5	99.5	120.7	132.7	141.8	150.8	147.8	108.6
87.5°	21.1	24.1	30.2	30.2	30.2	30.2	48.3	66.4	72.4	51.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C



90°
2087.3
2102.4
2090.3
2060.2
2072.2
2078.2
2081.3
2102.4
2114.4
2117.5
2156.7
2292.4
2379.9
2373.8
2609.1
2847.4
3019.3
3369.2
3827.7
4289.2
5013.1
5939.1
7200.0
8186.3
8865.0
8892.1
8949.4
8807.7
8258.7
6690.2
4250.0
2011.9
868.7
316.7
187.0
105.6
51.3
0.0

OF REPORT)