

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: P574941

Luminaire Tested: **EPH-VN-03-750-U-5WQ**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574941
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-03-750-U-5WQ
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ 5WQ distribution lens
Light Source: (48) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

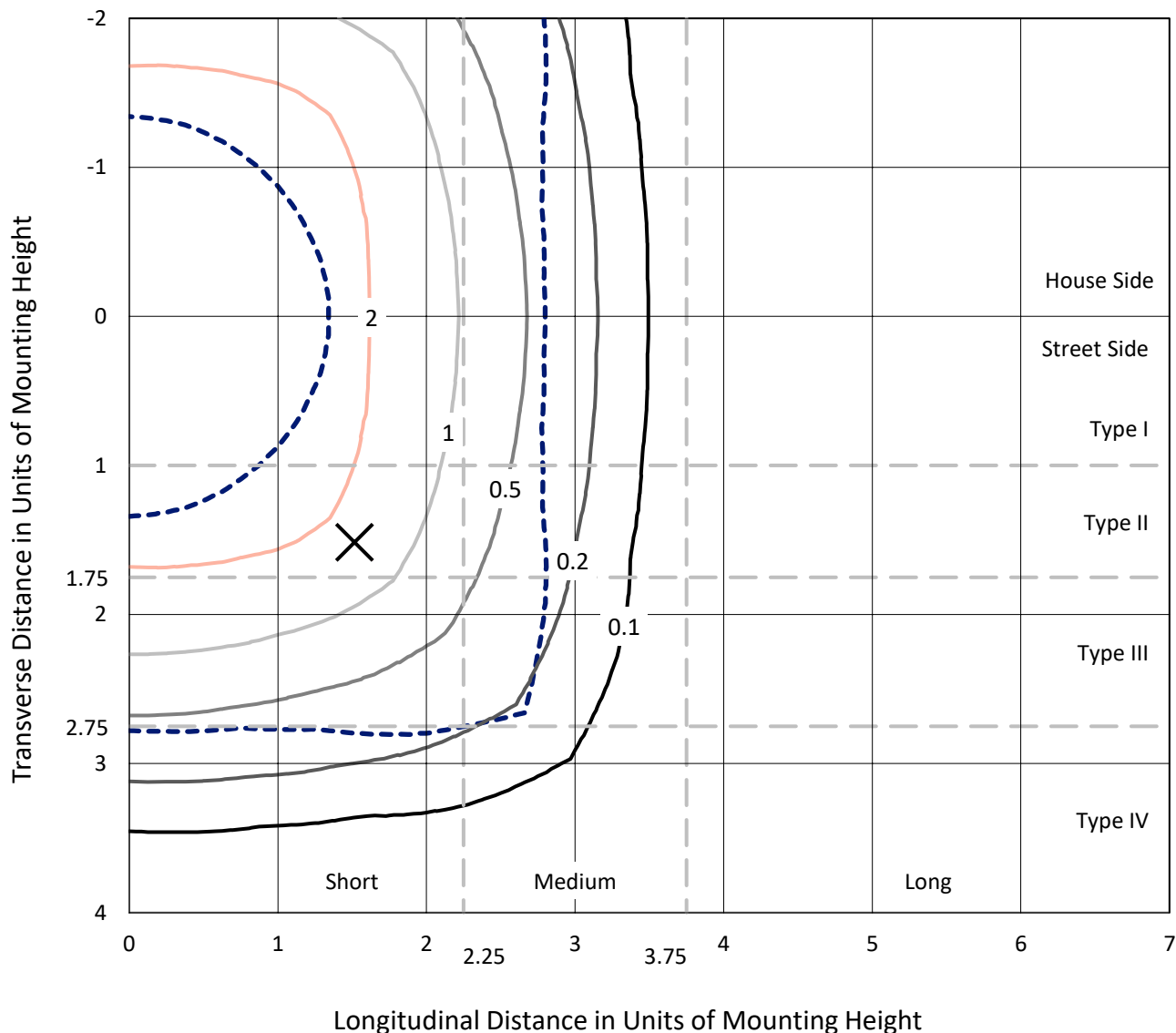
Lumens per Lamp: N/A
Luminaire Lumens: 28313.7 lumens
Efficiency: N/A
Efficacy: 122.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

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

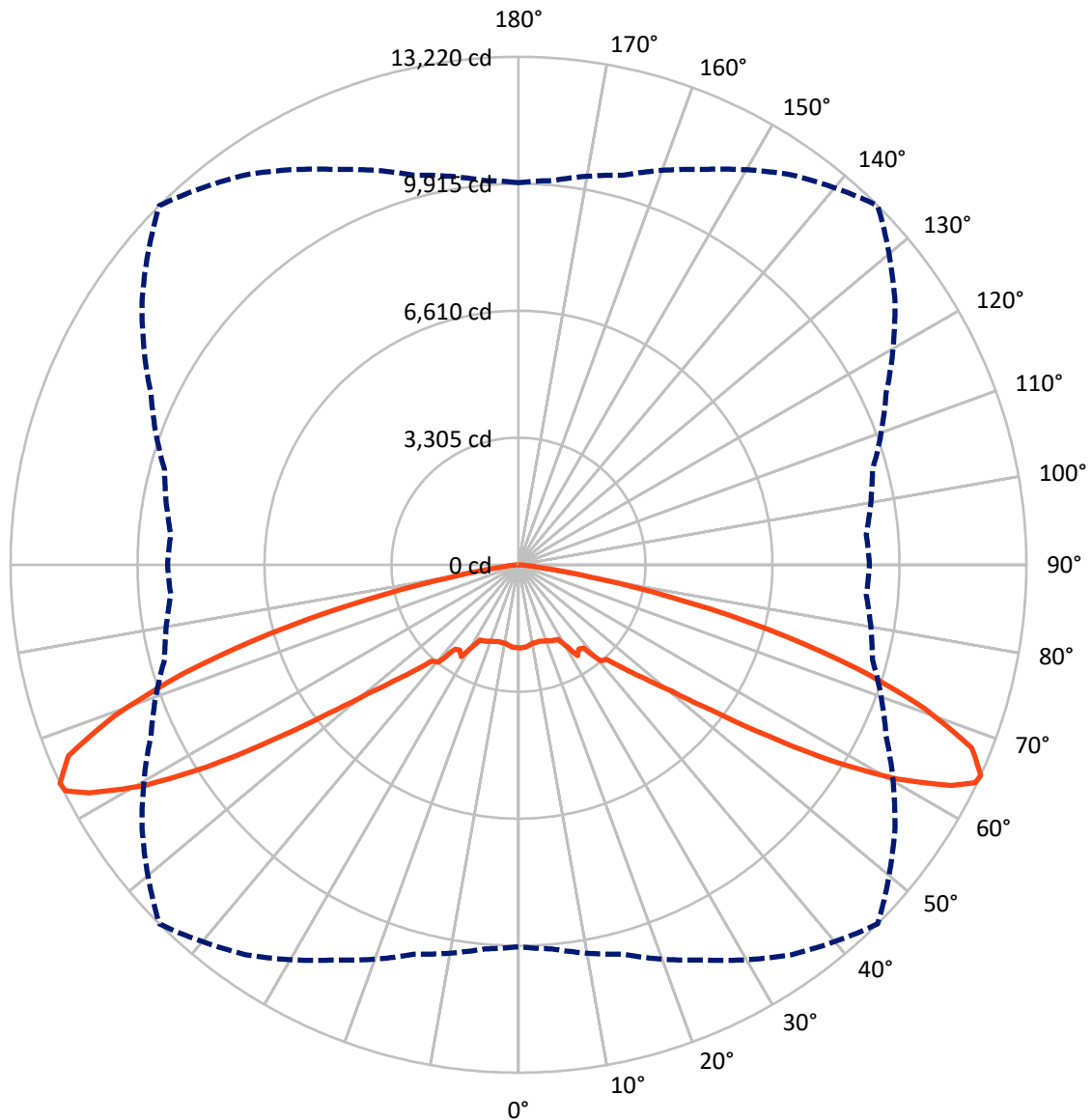
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 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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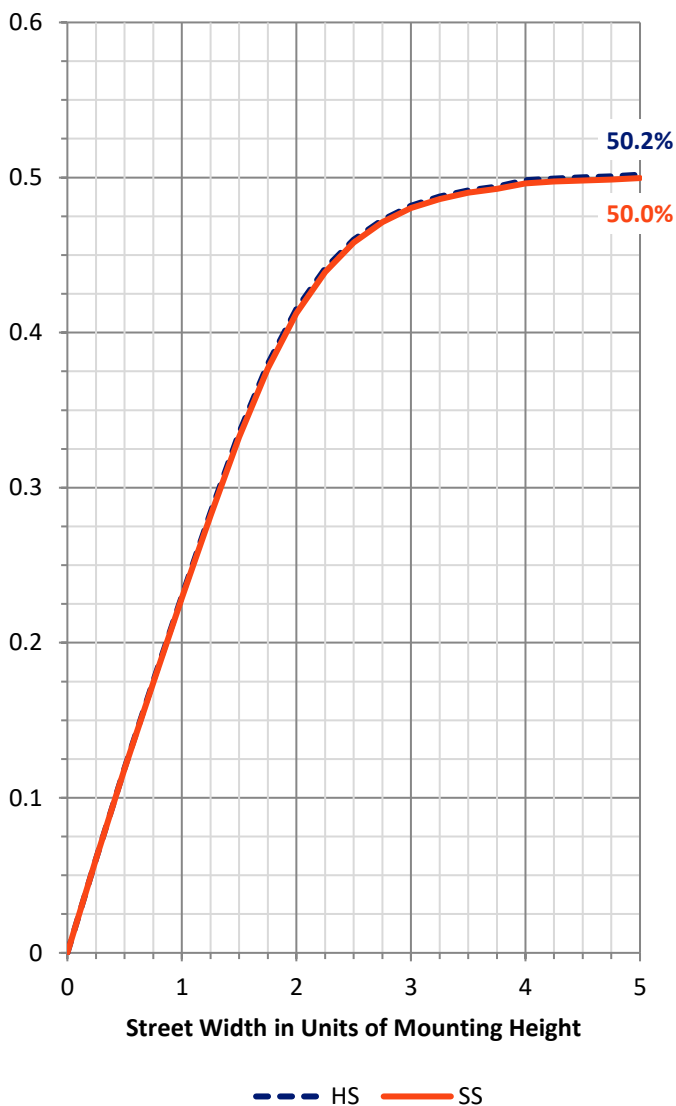
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14156.8	0.0	14156.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14156.8	0.0	14156.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	28313.7	0.0	28313.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.1	0.7
10°-20°	596.7	2.1
20°-30°	1032.9	3.6
30°-40°	1717.5	6.1
40°-50°	3098.7	10.9
50°-60°	6902.8	24.4
60°-70°	10287.4	36.3
70°-80°	4263.2	15.1
80°-90°	211.2	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°	28313.7	100.0
0°-180°	28313.7	100.0

Coefficient of Utilization

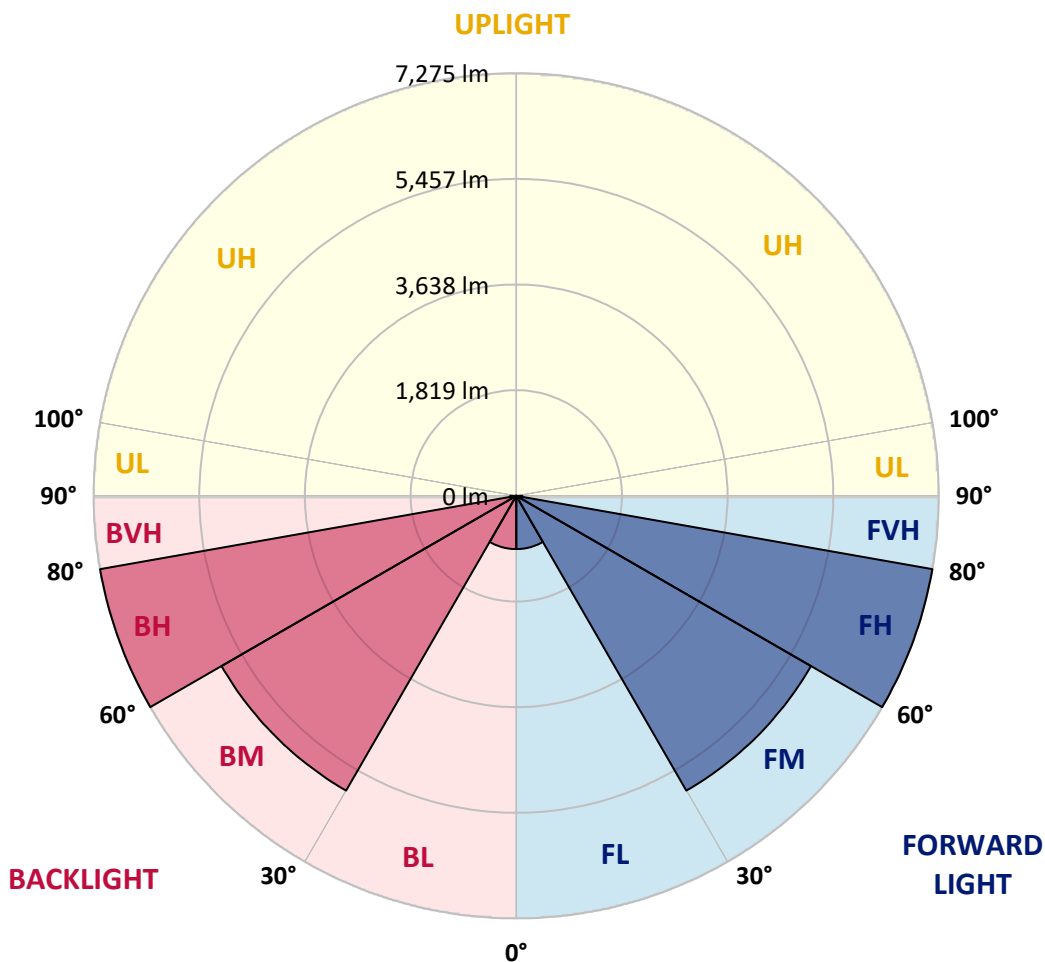


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	916.4	3.2			
FM (30°-60°)	5859.5	20.7			
FH (60°-80°)	7275.3	25.7			G3/7500
FVH (80°-90°)	105.6	0.4			G2/225
BL (0°-30°)	916.4	3.2	B2/1000		
BM (30°-60°)	5859.5	20.7	B4/8500		
BH (60°-80°)	7275.3	25.7	B5		G3/7500
BVH (80°-90°)	105.6	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°	2164.8	2164.8	2164.8	2164.8	2164.8	2164.8	2164.8	2164.8	2164.8	2164.8
2.5°	2139.7	2146.0	2142.9	2142.9	2152.2	2158.5	2161.6	2192.9	2180.4	2189.8
5°	2146.0	2146.0	2152.2	2146.0	2152.2	2146.0	2152.2	2142.9	2152.2	2158.5
7.5°	2133.5	2127.2	2117.8	2117.8	2114.7	2108.4	2099.1	2124.1	2111.6	2121.0
10°	2136.6	2127.2	2095.9	2102.2	2074.0	2074.0	2080.3	2080.3	2108.4	2139.7
12.5°	2136.6	2117.8	2108.4	2067.8	2067.8	2070.9	2086.5	2092.8	2111.6	2124.1
15°	2136.6	2127.2	2111.6	2058.4	2070.9	2064.6	2080.3	2080.3	2121.0	2142.9
17.5°	2149.1	2155.4	2127.2	2077.2	2080.3	2092.8	2083.4	2092.8	2142.9	2158.5
20°	2152.2	2127.2	2117.8	2086.5	2114.7	2108.4	2105.3	2124.1	2139.7	2167.9
22.5°	2146.0	2155.4	2117.8	2114.7	2139.7	2152.2	2158.5	2136.6	2155.4	2174.1
25°	2199.2	2164.8	2155.4	2149.1	2161.6	2174.1	2167.9	2186.7	2186.7	2208.5
27.5°	2343.1	2346.2	2327.4	2252.3	2227.3	2199.2	2211.7	2261.7	2321.2	2368.1
30°	2408.8	2421.3	2471.3	2458.8	2449.4	2458.8	2455.7	2468.2	2474.5	2477.6
32.5°	2468.2	2461.9	2440.0	2496.3	2680.9	2821.7	2687.2	2502.6	2461.9	2449.4
35°	2684.0	2684.0	2637.1	2565.2	2662.1	2696.6	2634.0	2546.4	2596.5	2699.7
37.5°	2962.5	2921.8	2940.6	2931.2	2824.8	2749.7	2859.2	2915.5	2924.9	2921.8
40°	3128.3	3100.1	3071.9	3122.0	3219.0	3287.8	3190.8	3056.3	3090.7	3159.5
42.5°	3506.8	3434.8	3441.1	3391.0	3387.9	3366.0	3344.1	3353.5	3403.5	3481.7
45°	3894.7	3929.1	3907.2	3813.3	3857.1	3857.1	3794.6	3841.5	3866.5	3957.2
47.5°	4501.6	4485.9	4495.3	4410.8	4407.7	4429.6	4407.7	4410.8	4489.0	4482.8
50°	5211.7	5255.5	5268.0	5227.3	5177.3	5167.9	5133.5	5177.3	5224.2	5227.3
52.5°	6193.9	6240.9	6240.9	6253.4	6315.9	6284.7	6278.4	6281.5	6190.8	6128.3
55°	7432.7	7448.4	7501.6	7611.0	7801.9	7826.9	7708.0	7654.8	7489.0	7388.9
57.5°	8655.9	8718.5	8865.5	9150.1	9384.8	9641.3	9297.2	8946.8	8621.5	8461.9
60°	9672.6	9763.3	10044.8	10442.1	11092.8	11327.4	10745.6	10144.9	9484.9	8996.9
62.5°	10151.2	10292.0	10529.7	11333.7	12309.7	12647.5	11793.5	10701.8	9700.7	9231.5
64°	10154.3	10176.2	10651.7	11518.2	12522.4	13176.2	12046.9	10701.8	9753.9	9175.2
65°	9944.7	10035.4	10495.3	11349.3	12387.9	13220.0	11959.3	10554.7	9534.9	9084.5
67.5°	8993.7	8990.6	9416.1	10263.8	11705.9	12722.6	11214.8	9732.0	8993.7	8505.7
70°	6822.7	6932.2	7338.9	8380.6	10129.3	11217.9	9807.1	8271.1	7351.4	6960.4
72.5°	4082.4	4226.3	4745.6	6015.6	7867.6	9190.8	7783.1	6118.9	5011.5	4392.1
75°	1861.3	1967.7	2324.3	3359.7	5243.0	6719.5	5274.2	3538.1	2537.0	2142.9
77.5°	522.4	588.1	785.2	1542.2	2878.0	4029.2	2959.3	1704.9	1107.4	919.7
80°	234.6	247.1	278.4	375.4	913.5	1776.8	1223.1	625.7	416.1	344.1
82.5°	128.3	137.6	181.4	194.0	259.6	472.4	403.5	294.1	250.3	200.2
85°	71.9	75.1	103.2	103.2	125.1	137.6	147.0	156.4	153.3	112.6
87.5°	21.9	25.0	31.3	31.3	31.3	31.3	50.1	68.8	75.1	53.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C



90°
2164.8
2180.4
2167.9
2136.6
2149.1
2155.4
2158.5
2180.4
2192.9
2196.0
2236.7
2377.5
2468.2
2461.9
2705.9
2953.1
3131.4
3494.3
3969.8
4448.4
5199.2
6159.5
7467.1
8490.1
9193.9
9222.1
9281.5
9134.5
8565.2
6938.5
4407.7
2086.5
900.9
328.5
194.0
109.5
53.2
0.0

OF REPORT)