

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: P574923

Luminaire Tested: **EPH-VN-03-730-U-5WQ**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P574923  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-03-730-U-5WQ  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ 5WQ distribution lens  
Light Source: (48) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

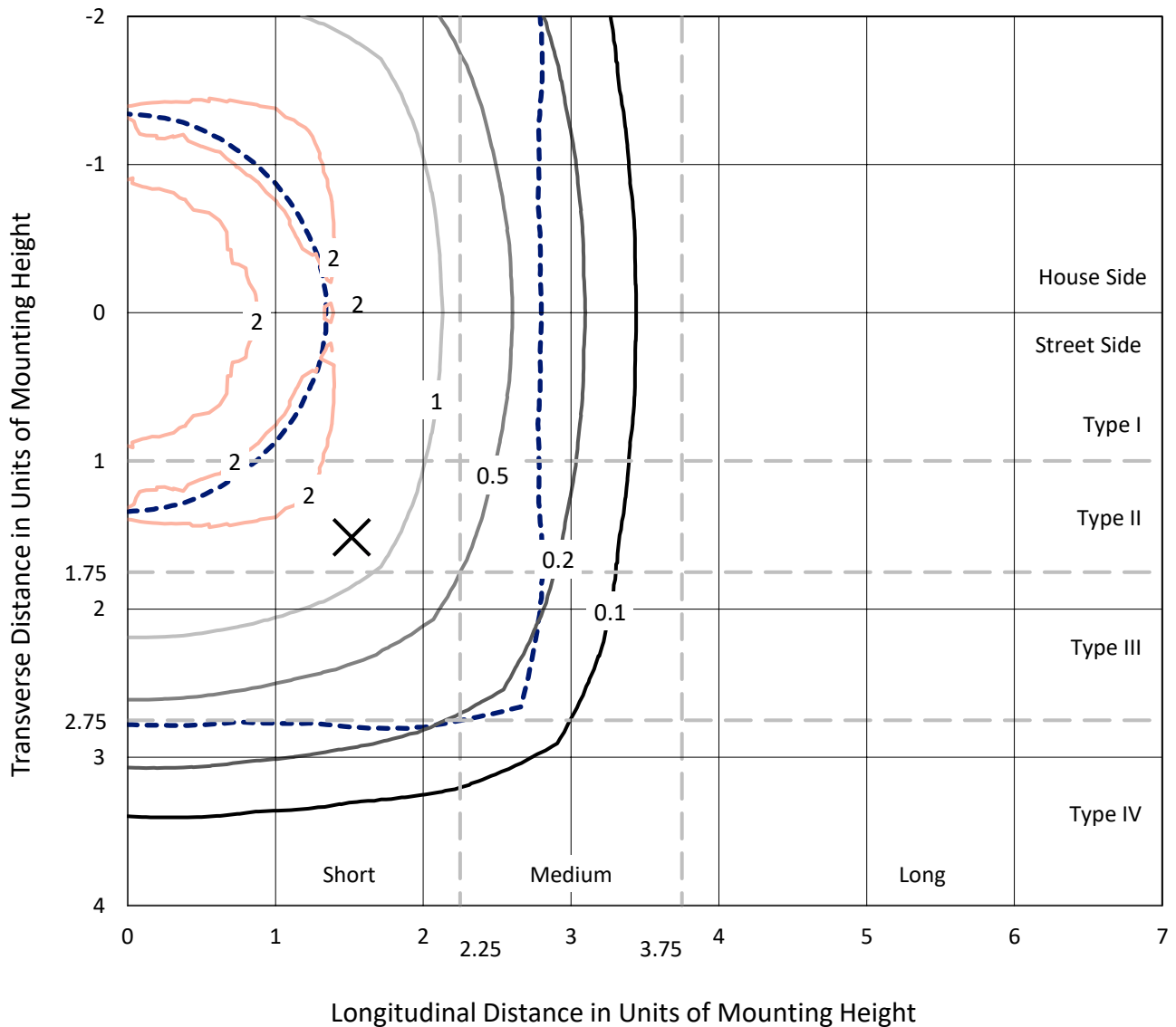
Lumens per Lamp: N/A  
Luminaire Lumens: 25205.2 lumens  
Efficiency: N/A  
Efficacy: 108.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

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

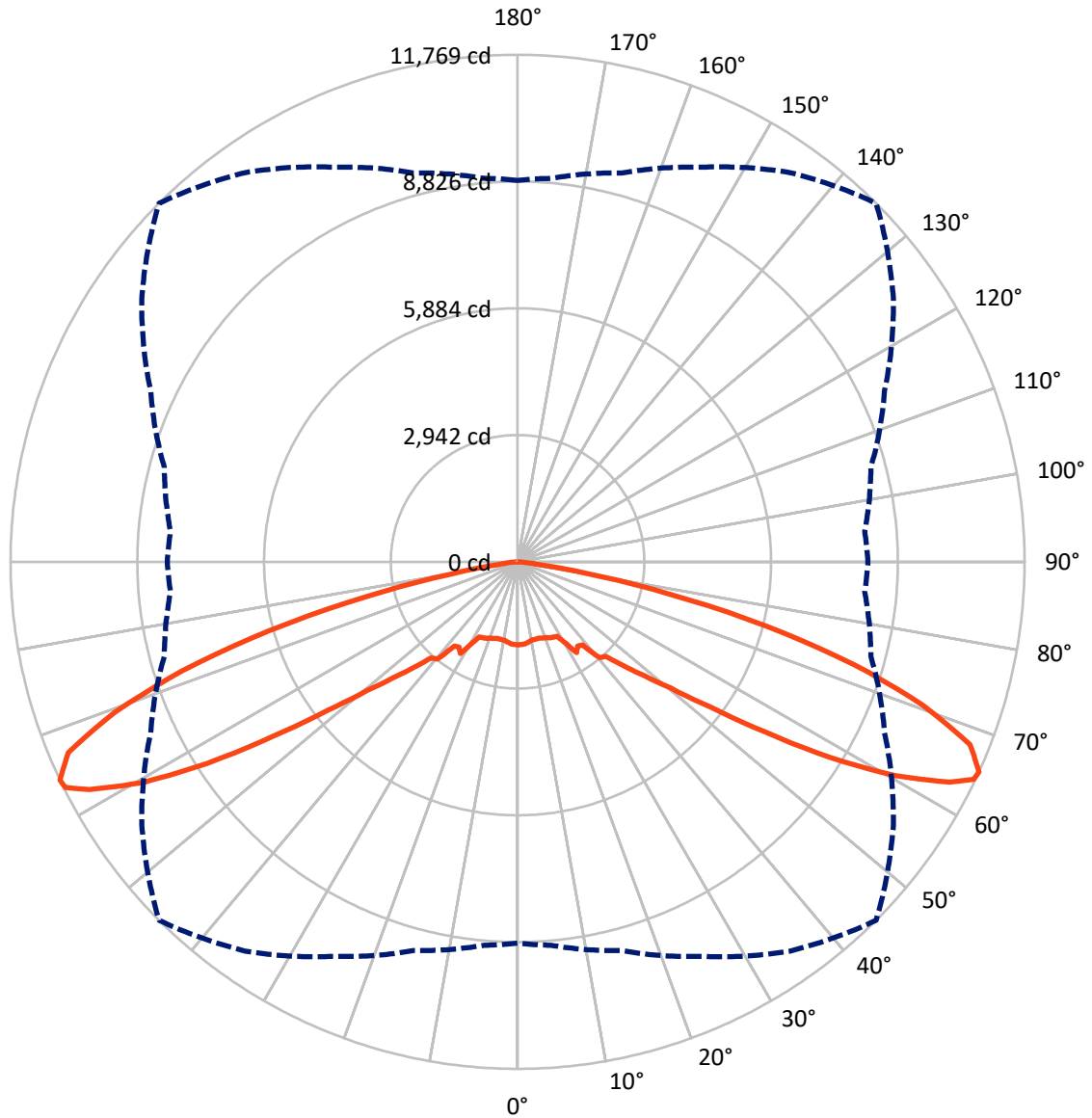
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 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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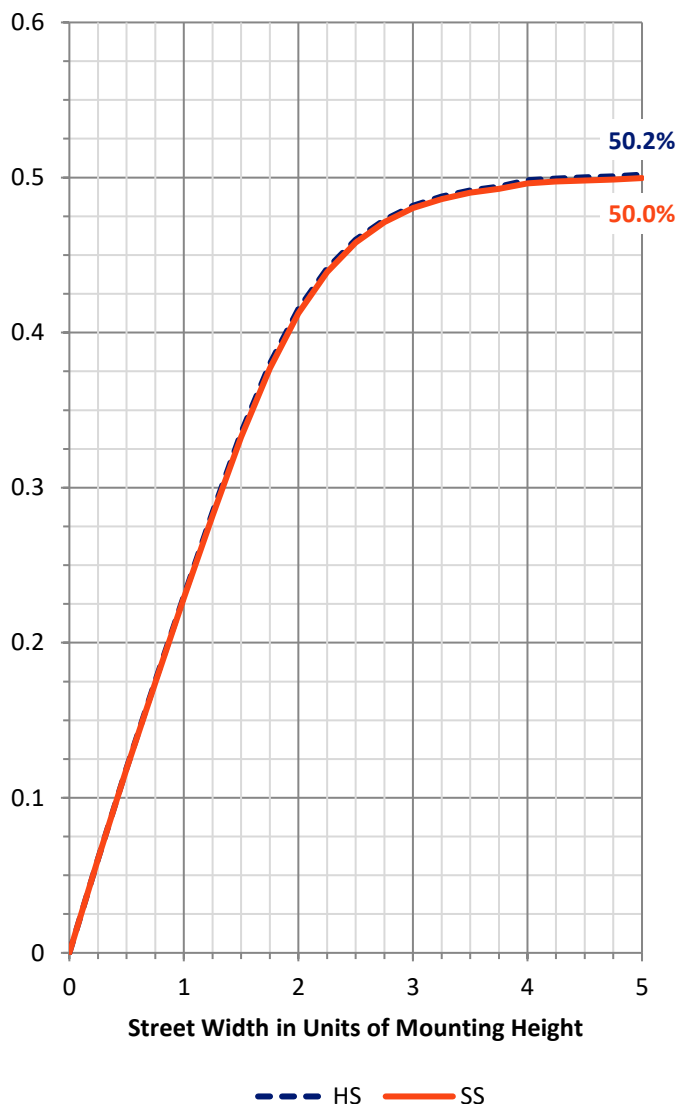
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12602.6	0.0	12602.6
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	12602.6	0.0	12602.6
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	25205.2	0.0	25205.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	180.8	0.7
10°-20°	531.2	2.1
20°-30°	919.5	3.6
30°-40°	1529.0	6.1
40°-50°	2758.5	10.9
50°-60°	6145.0	24.4
60°-70°	9158.0	36.3
70°-80°	3795.2	15.1
80°-90°	188.0	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°	25205.2	100.0
0°-180°	25205.2	100.0

**Coefficient of Utilization**



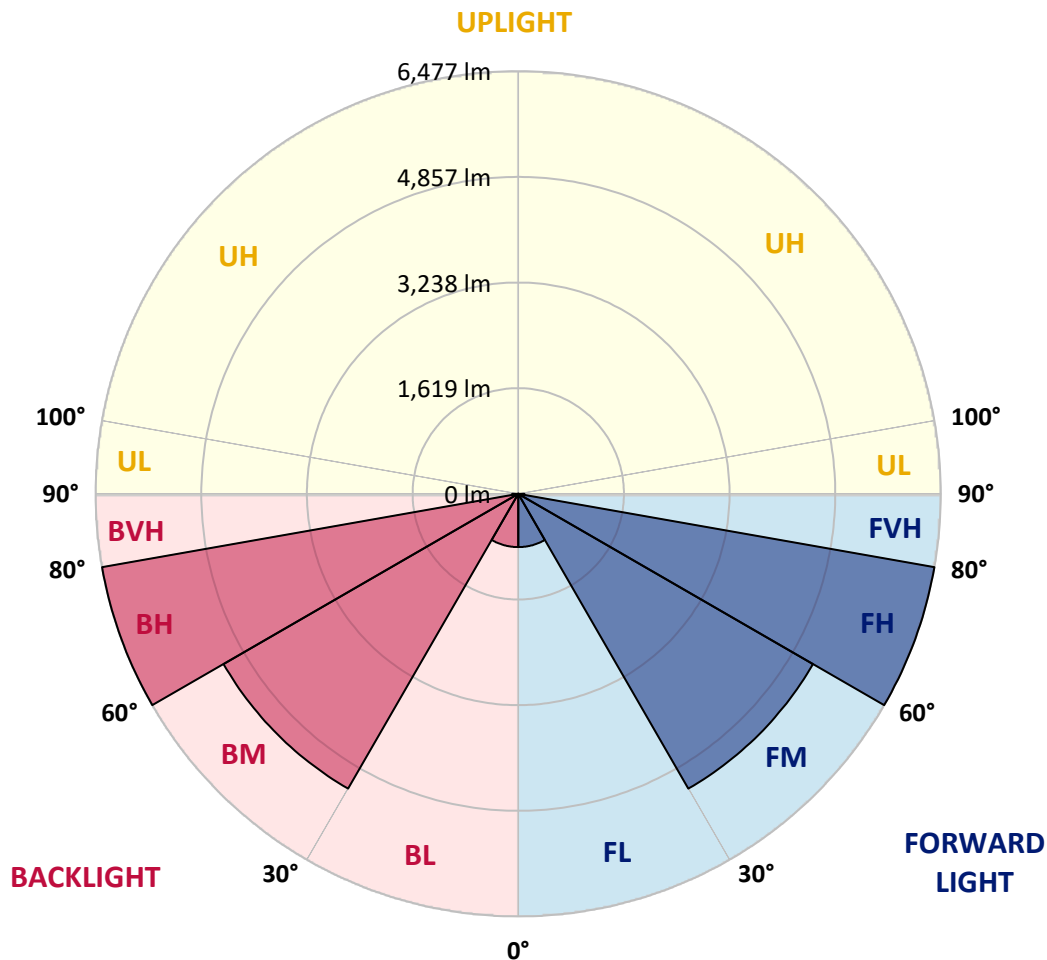
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	815.8	3.2			
FM (30°-60°)	5216.2	20.7			
FH (60°-80°)	6476.6	25.7			G3/7500
FVH (80°-90°)	94.0	0.4			G1/100
BL (0°-30°)	815.8	3.2	B2/1000		
BM (30°-60°)	5216.2	20.7	B4/8500		
BH (60°-80°)	6476.6	25.7	B5		G3/7500
BVH (80°-90°)	94.0	0.4			G1/100
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°	1927.1	1927.1	1927.1	1927.1	1927.1	1927.1	1927.1	1927.1	1927.1	1927.1
2.5°	1904.8	1910.4	1907.6	1907.6	1916.0	1921.5	1924.3	1952.2	1941.0	1949.4
5°	1910.4	1910.4	1916.0	1910.4	1916.0	1910.4	1916.0	1907.6	1916.0	1921.5
7.5°	1899.2	1893.7	1885.3	1885.3	1882.5	1877.0	1868.6	1890.9	1879.8	1888.1
10°	1902.0	1893.7	1865.8	1871.4	1846.3	1846.3	1851.9	1851.9	1877.0	1904.8
12.5°	1902.0	1885.3	1877.0	1840.8	1840.8	1843.5	1857.5	1863.0	1879.8	1890.9
15°	1902.0	1893.7	1879.8	1832.4	1843.5	1838.0	1851.9	1851.9	1888.1	1907.6
17.5°	1913.2	1918.7	1893.7	1849.1	1851.9	1863.0	1854.7	1863.0	1907.6	1921.5
20°	1916.0	1893.7	1885.3	1857.5	1882.5	1877.0	1874.2	1890.9	1904.8	1929.9
22.5°	1910.4	1918.7	1885.3	1882.5	1904.8	1916.0	1921.5	1902.0	1918.7	1935.4
25°	1957.7	1927.1	1918.7	1913.2	1924.3	1935.4	1929.9	1946.6	1946.6	1966.1
27.5°	2085.8	2088.6	2071.9	2005.1	1982.8	1957.7	1968.9	2013.4	2066.3	2108.1
30°	2144.3	2155.4	2200.0	2188.9	2180.5	2188.9	2186.1	2197.2	2202.8	2205.6
32.5°	2197.2	2191.7	2172.2	2222.3	2386.6	2511.9	2392.2	2227.9	2191.7	2180.5
35°	2389.4	2389.4	2347.6	2283.6	2369.9	2400.5	2344.8	2266.8	2311.4	2403.3
37.5°	2637.2	2601.0	2617.7	2609.4	2514.7	2447.9	2545.3	2595.5	2603.8	2601.0
40°	2784.8	2759.8	2734.7	2779.2	2865.6	2926.8	2840.5	2720.8	2751.4	2812.7
42.5°	3121.8	3057.7	3063.3	3018.7	3016.0	2996.5	2977.0	2985.3	3029.9	3099.5
45°	3467.1	3497.7	3478.2	3394.7	3433.7	3433.7	3378.0	3419.8	3442.0	3522.8
47.5°	4007.4	3993.4	4001.8	3926.6	3923.8	3943.3	3923.8	3926.6	3996.2	3990.6
50°	4639.5	4678.5	4689.6	4653.4	4608.9	4600.5	4569.9	4608.9	4650.6	4653.4
52.5°	5513.9	5555.7	5555.7	5566.9	5622.5	5594.7	5589.1	5591.9	5511.2	5455.5
55°	6616.7	6630.7	6678.0	6775.5	6945.3	6967.6	6861.8	6814.4	6666.9	6577.7
57.5°	7705.6	7761.3	7892.2	8145.6	8354.5	8582.8	8276.5	7964.6	7675.0	7532.9
60°	8610.7	8691.4	8942.1	9295.7	9875.0	10083.8	9565.8	9031.2	8443.6	8009.1
62.5°	9036.7	9162.1	9373.7	10089.4	10958.3	11259.0	10498.8	9526.9	8635.7	8218.0
64°	9039.5	9059.0	9482.3	10253.7	11147.6	11729.7	10724.3	9526.9	8683.1	8167.9
65°	8852.9	8933.7	9343.1	10103.3	11027.9	11768.6	10646.4	9396.0	8488.1	8087.1
67.5°	8006.4	8003.6	8382.3	9137.0	10420.8	11325.9	9983.6	8663.6	8006.4	7571.9
70°	6073.7	6171.2	6533.2	7460.5	9017.2	9986.4	8730.4	7363.1	6544.3	6196.2
72.5°	3634.2	3762.3	4224.6	5355.2	7003.8	8181.8	6928.6	5447.1	4461.3	3909.9
75°	1657.0	1751.7	2069.1	2990.9	4667.4	5981.8	4695.2	3149.6	2258.5	1907.6
77.5°	465.1	523.5	699.0	1372.9	2562.0	3586.8	2634.4	1517.7	985.8	818.7
80°	208.9	220.0	247.8	334.2	813.2	1581.8	1088.9	557.0	370.4	306.3
82.5°	114.2	122.5	161.5	172.7	231.1	420.5	359.2	261.8	222.8	178.2
85°	64.1	66.8	91.9	91.9	111.4	122.5	130.9	139.2	136.5	100.3
87.5°	19.5	22.3	27.8	27.8	27.8	27.8	44.6	61.3	66.8	47.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C



90°
1927.1
1941.0
1929.9
1902.0
1913.2
1918.7
1921.5
1941.0
1952.2
1954.9
1991.1
2116.5
2197.2
2191.7
2408.9
2628.9
2787.6
3110.6
3533.9
3960.0
4628.4
5483.3
6647.4
7558.0
8184.6
8209.6
8262.6
8131.7
7624.8
6176.7
3923.8
1857.5
802.0
292.4
172.7
97.5
47.3
0.0

OF REPORT)