

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: P574924

Luminaire Tested: **EPH-VN-04-730-U-5WQ**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P574924  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-04-730-U-5WQ  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ 5WQ distribution lens  
Light Source: (64) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

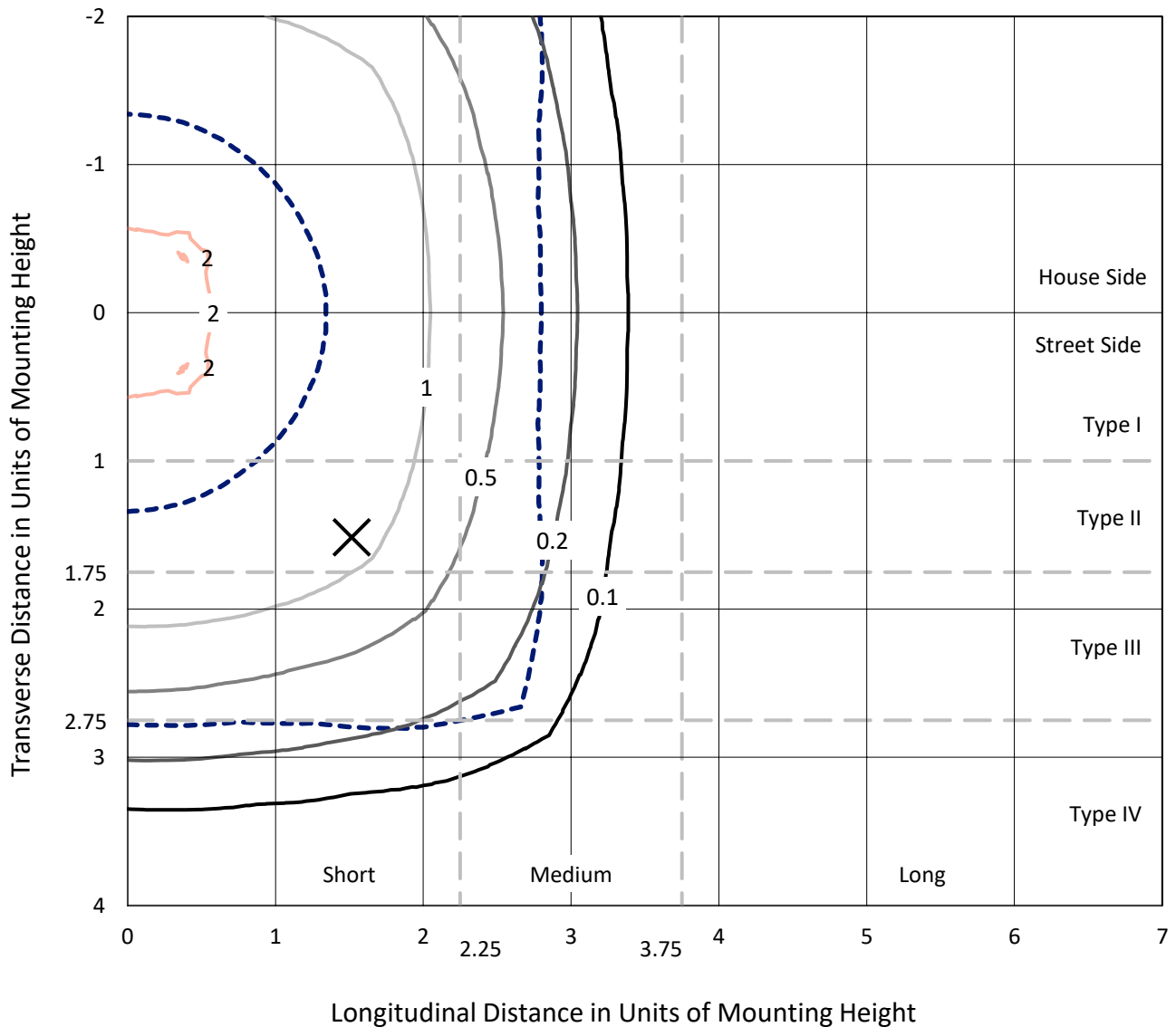
Lumens per Lamp: N/A  
Luminaire Lumens: 32682.1 lumens  
Efficiency: N/A  
Efficacy: 107.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

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

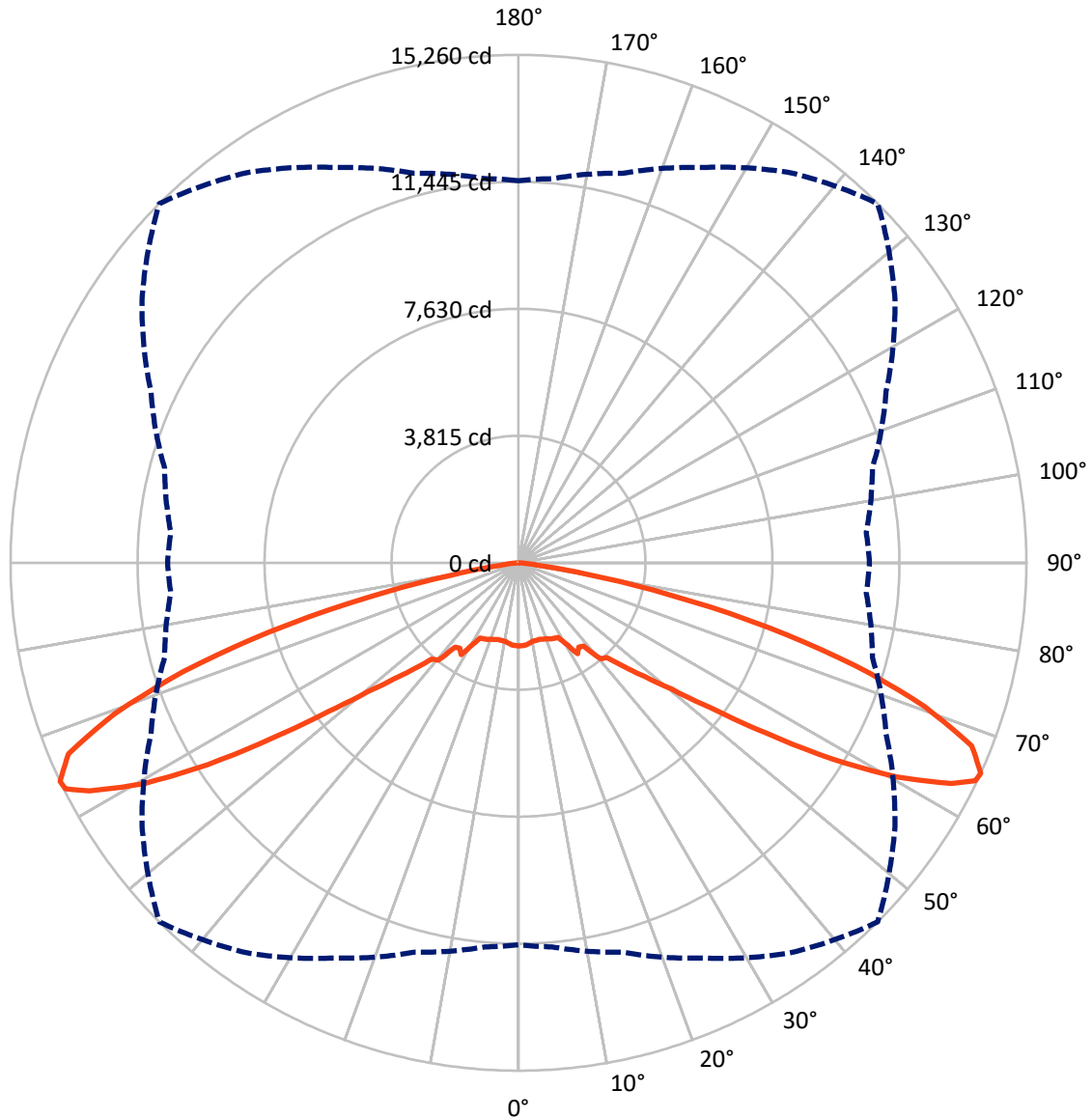
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 2.8 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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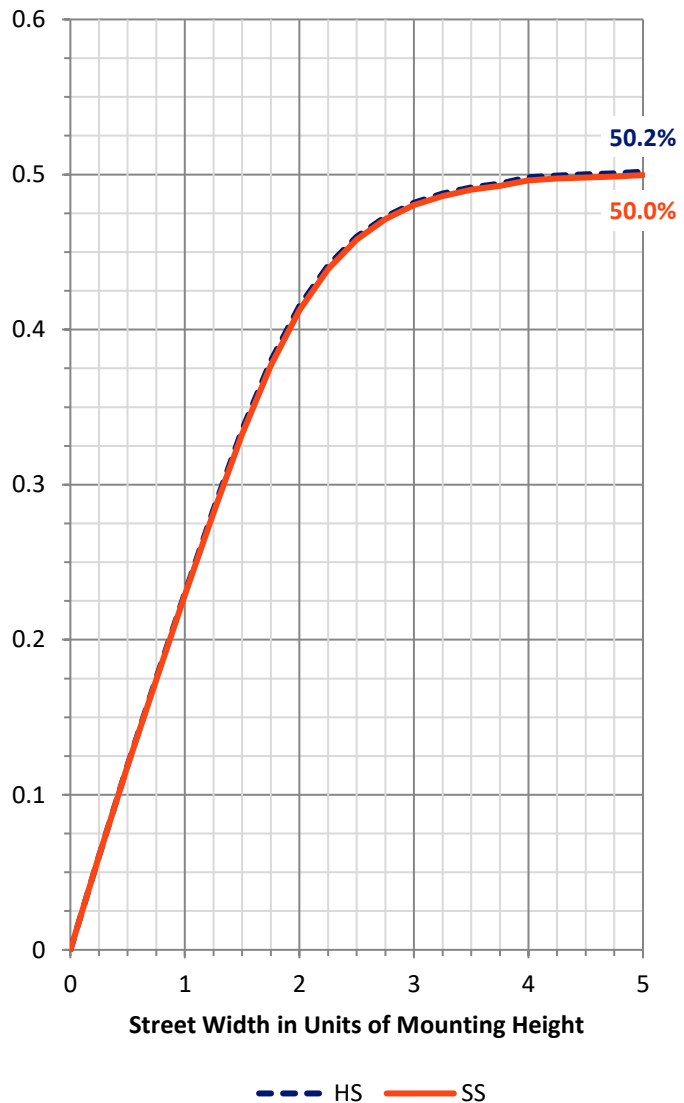
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	16341.0	0.0	16341.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	16341.0	0.0	16341.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	32682.1	0.0	32682.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	234.5	0.7
10°-20°	688.8	2.1
20°-30°	1192.3	3.6
30°-40°	1982.5	6.1
40°-50°	3576.8	10.9
50°-60°	7967.8	24.4
60°-70°	11874.6	36.3
70°-80°	4921.0	15.1
80°-90°	243.7	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°	32682.1	100.0
0°-180°	32682.1	100.0

**Coefficient of Utilization**



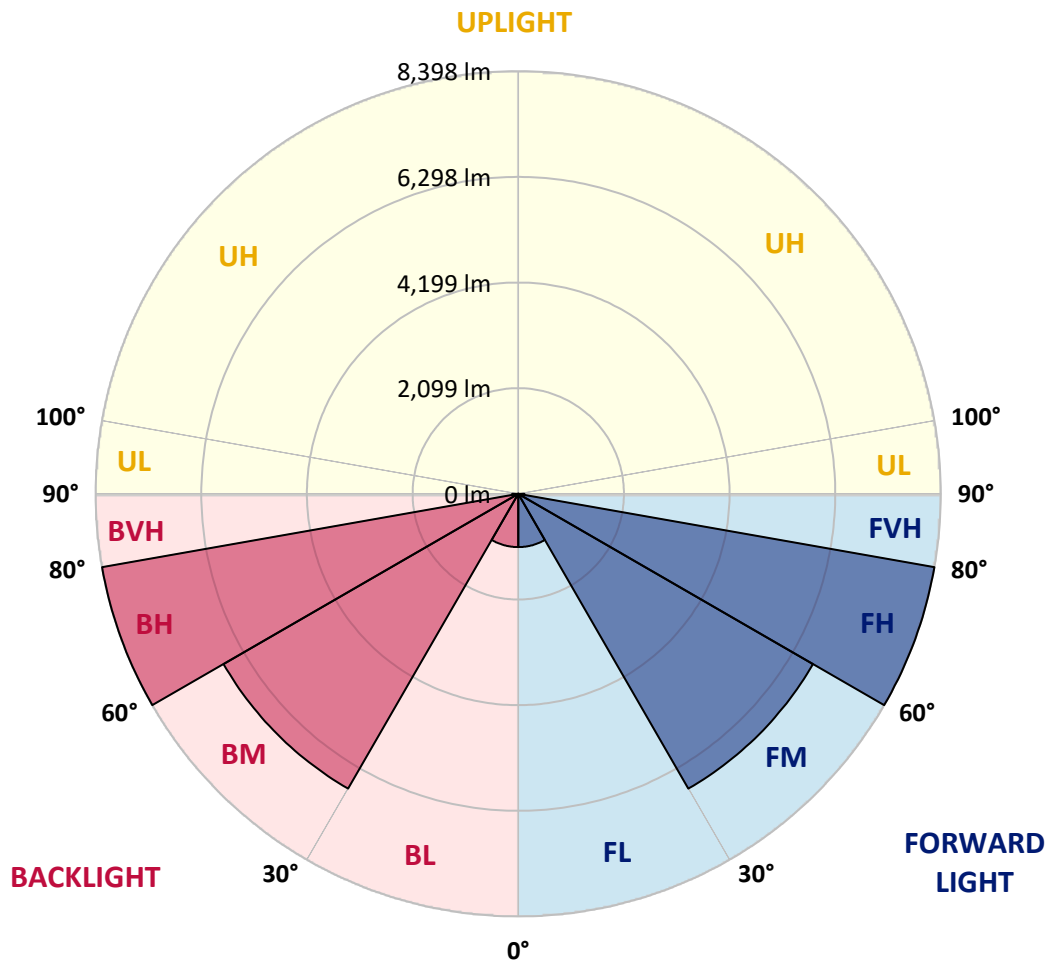
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1057.8	3.2			
FM (30°-60°)	6763.6	20.7			
FH (60°-80°)	8397.8	25.7			G4/12000
FVH (80°-90°)	121.9	0.4			G2/225
BL (0°-30°)	1057.8	3.2	B3/2500		
BM (30°-60°)	6763.6	20.7	B4/8500		
BH (60°-80°)	8397.8	25.7	B5		G4/12000
BVH (80°-90°)	121.9	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°	2498.7	2498.7	2498.7	2498.7	2498.7	2498.7	2498.7	2498.7	2498.7	2498.7
2.5°	2469.9	2477.1	2473.5	2473.5	2484.3	2491.5	2495.1	2531.2	2516.8	2527.6
5°	2477.1	2477.1	2484.3	2477.1	2484.3	2477.1	2484.3	2473.5	2484.3	2491.5
7.5°	2462.6	2455.4	2444.6	2444.6	2441.0	2433.7	2422.9	2451.8	2437.4	2448.2
10°	2466.2	2455.4	2419.3	2426.5	2394.0	2394.0	2401.2	2401.2	2433.7	2469.9
12.5°	2466.2	2444.6	2433.7	2386.8	2386.8	2390.4	2408.5	2415.7	2437.4	2451.8
15°	2466.2	2455.4	2437.4	2376.0	2390.4	2383.2	2401.2	2401.2	2448.2	2473.5
17.5°	2480.7	2487.9	2455.4	2397.6	2401.2	2415.7	2404.9	2415.7	2473.5	2491.5
20°	2484.3	2455.4	2444.6	2408.5	2441.0	2433.7	2430.1	2451.8	2469.9	2502.4
22.5°	2477.1	2487.9	2444.6	2441.0	2469.9	2484.3	2491.5	2466.2	2487.9	2509.6
25°	2538.5	2498.7	2487.9	2480.7	2495.1	2509.6	2502.4	2524.0	2524.0	2549.3
27.5°	2704.6	2708.2	2686.5	2599.8	2571.0	2538.5	2552.9	2610.7	2679.3	2733.5
30°	2780.4	2794.8	2852.6	2838.2	2827.3	2838.2	2834.6	2849.0	2856.2	2859.8
32.5°	2849.0	2841.8	2816.5	2881.5	3094.5	3257.0	3101.8	2888.7	2841.8	2827.3
35°	3098.2	3098.2	3044.0	2960.9	3072.9	3112.6	3040.4	2939.3	2997.0	3116.2
37.5°	3419.5	3372.6	3394.2	3383.4	3260.6	3174.0	3300.4	3365.4	3376.2	3372.6
40°	3610.9	3578.4	3545.9	3603.7	3715.6	3795.1	3683.1	3527.9	3567.6	3647.0
42.5°	4047.8	3964.8	3972.0	3914.2	3910.6	3885.3	3860.1	3870.9	3928.7	4018.9
45°	4495.6	4535.3	4510.0	4401.7	4452.2	4452.2	4380.0	4434.2	4463.1	4567.8
47.5°	5196.1	5178.0	5188.9	5091.4	5087.8	5113.0	5087.8	5091.4	5181.6	5174.4
50°	6015.8	6066.3	6080.8	6033.8	5976.0	5965.2	5925.5	5976.0	6030.2	6033.8
52.5°	7149.6	7203.7	7203.7	7218.2	7290.4	7254.3	7247.1	7250.7	7146.0	7073.8
55°	8579.5	8597.6	8658.9	8785.3	9005.6	9034.5	8897.3	8835.9	8644.5	8528.9
57.5°	9991.4	10063.6	10233.3	10561.9	10832.7	11128.8	10731.6	10327.2	9951.6	9767.5
60°	11164.9	11269.6	11594.6	12053.2	12804.3	13075.1	12403.4	11710.2	10948.3	10385.0
62.5°	11717.4	11879.9	12154.3	13082.3	14208.9	14598.9	13613.1	12352.9	11197.4	10655.8
64°	11721.0	11746.3	12295.1	13295.3	14454.4	15209.1	13905.6	12352.9	11258.8	10590.8
65°	11479.1	11583.8	12114.6	13100.3	14299.2	15259.7	13804.5	12183.2	11006.0	10486.1
67.5°	10381.3	10377.7	10868.8	11847.4	13512.0	14685.5	12945.1	11233.5	10381.3	9818.0
70°	7875.4	8001.8	8471.2	9673.6	11692.1	12948.7	11320.2	9547.2	8485.6	8034.3
72.5°	4712.2	4878.3	5477.7	6943.8	9081.4	10608.8	8983.9	7062.9	5784.7	5069.7
75°	2148.5	2271.3	2682.9	3878.1	6051.9	7756.2	6088.0	4083.9	2928.4	2473.5
77.5°	603.0	678.8	906.3	1780.2	3322.0	4650.8	3415.9	1967.9	1278.3	1061.6
80°	270.8	285.3	321.4	433.3	1054.4	2051.0	1411.9	722.2	480.2	397.2
82.5°	148.0	158.9	209.4	223.9	299.7	545.2	465.8	339.4	288.9	231.1
85°	83.1	86.7	119.2	119.2	144.4	158.9	169.7	180.5	176.9	130.0
87.5°	25.3	28.9	36.1	36.1	36.1	36.1	57.8	79.4	86.7	61.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C



90°  
2498.7  
2516.8  
2502.4  
2466.2  
2480.7  
2487.9  
2491.5  
2516.8  
2531.2  
2534.9  
2581.8  
2744.3  
2849.0  
2841.8  
3123.4  
3408.7  
3614.5  
4033.4  
4582.2  
5134.7  
6001.3  
7109.9  
8619.2  
9800.0  
10612.4  
10644.9  
10713.5  
**10543.8**  
9886.6  
8009.0  
5087.8  
2408.5  
1039.9  
379.1  
223.9  
126.4  
61.4  
0.0

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