

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: P574930

Luminaire Tested: **EPH-VN-04-735-U-5WQ**

Issue Date: 10/19/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P574930  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-04-735-U-5WQ  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ 5WQ distribution lens  
Light Source: (64) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

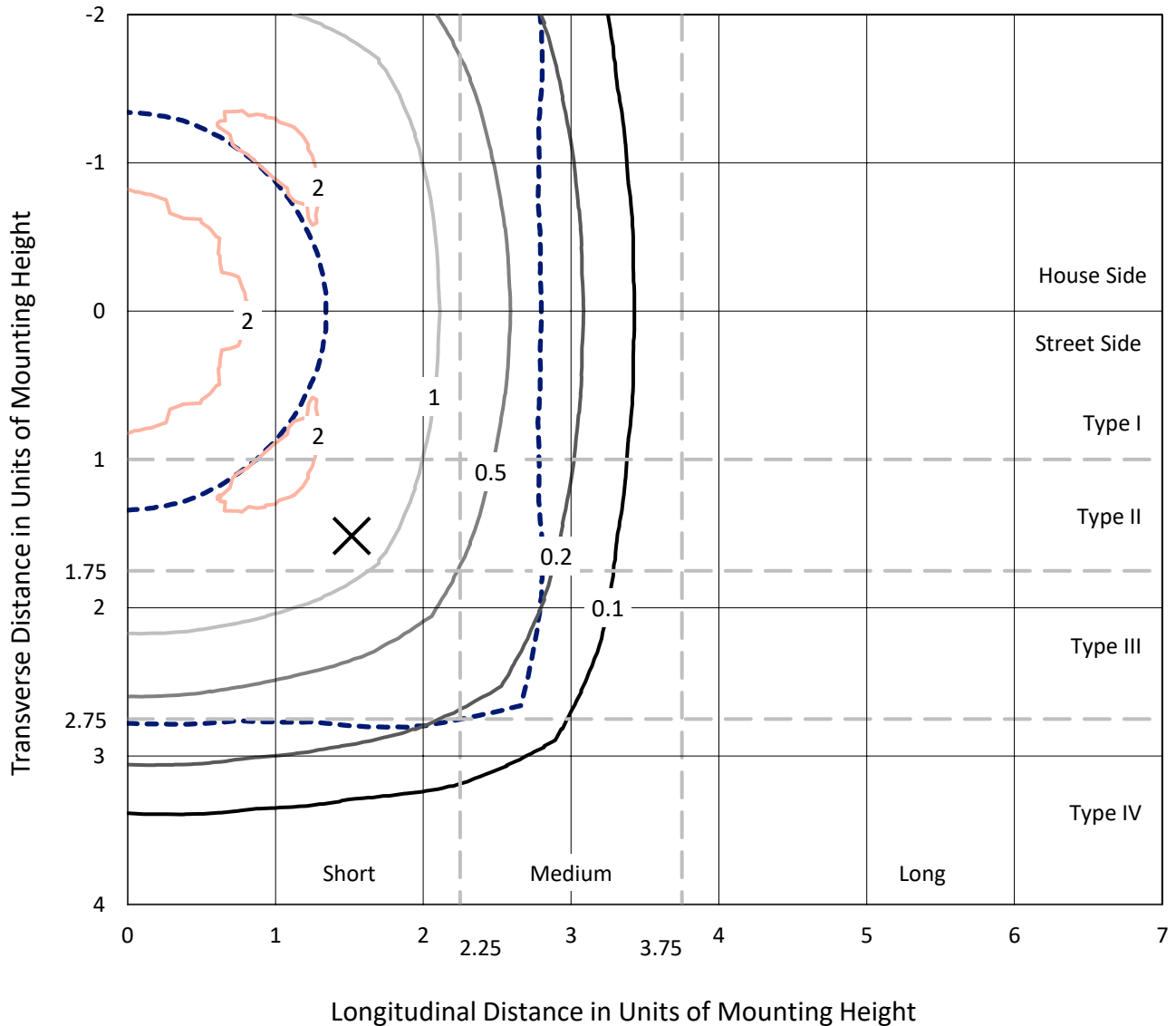
Lumens per Lamp: N/A  
Luminaire Lumens: 35399 lumens  
Efficiency: N/A  
Efficacy: 116.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

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

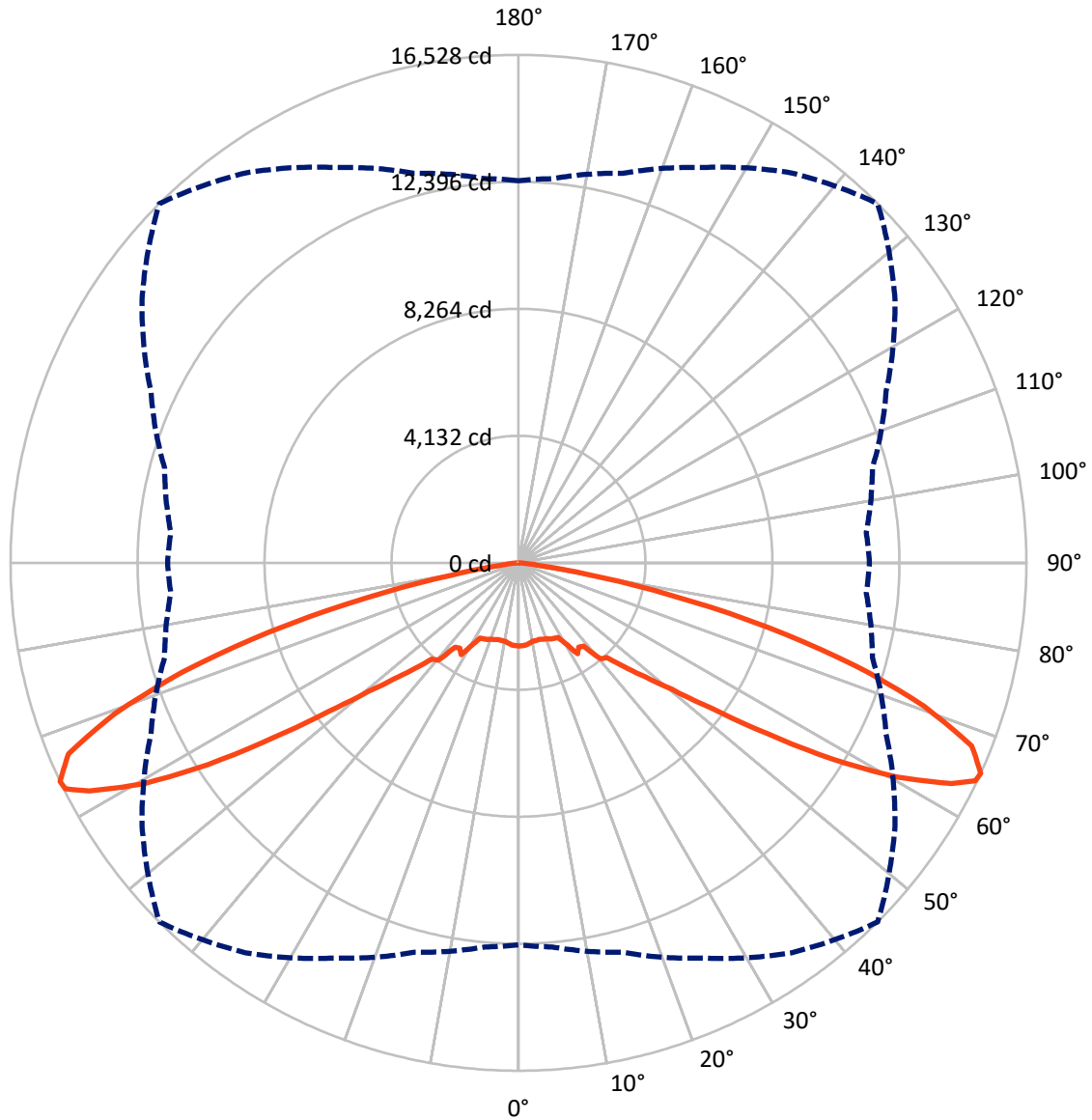
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3 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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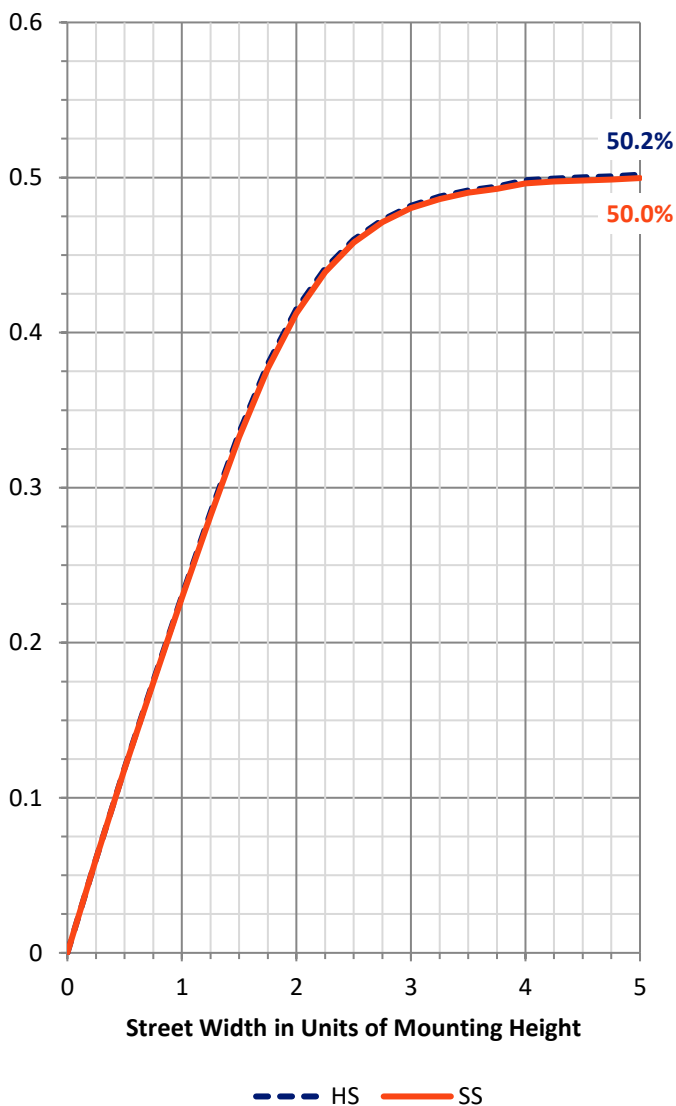
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	17699.5	0.0	17699.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	17699.5	0.0	17699.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	35399.0	0.0	35399.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	254.0	0.7
10°-20°	746.1	2.1
20°-30°	1291.4	3.6
30°-40°	2147.3	6.1
40°-50°	3874.1	10.9
50°-60°	8630.2	24.4
60°-70°	12861.8	36.3
70°-80°	5330.1	15.1
80°-90°	264.0	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°	35399.0	100.0
0°-180°	35399.0	100.0

**Coefficient of Utilization**

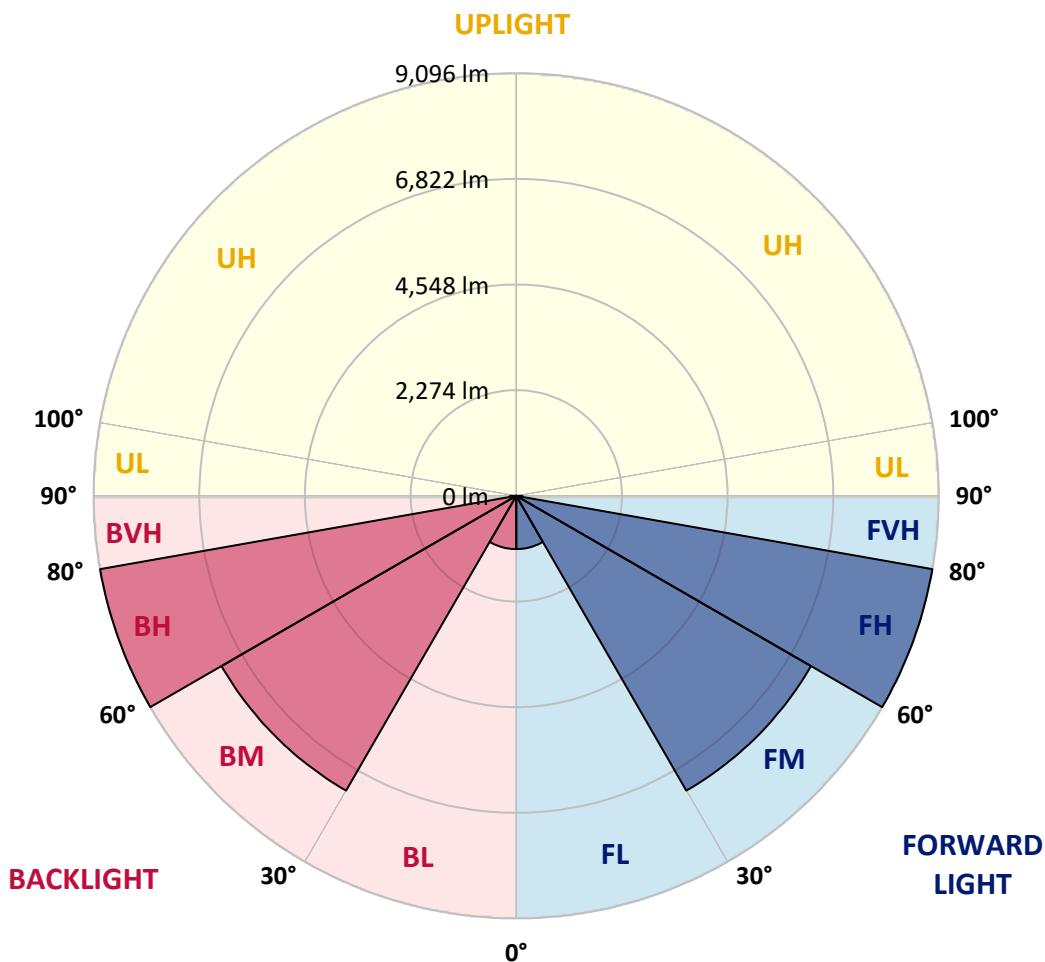


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1145.7	3.2			
FM (30°-60°)	7325.8	20.7			
FH (60°-80°)	9096.0	25.7			G4/12000
FVH (80°-90°)	132.0	0.4			G2/225
BL (0°-30°)	1145.7	3.2	B3/2500		
BM (30°-60°)	7325.8	20.7	B4/8500		
BH (60°-80°)	9096.0	25.7	B5		G4/12000
BVH (80°-90°)	132.0	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°	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5
2.5°	2675.2	2683.0	2679.1	2679.1	2690.8	2698.6	2702.6	2741.7	2726.0	2737.8
5°	2683.0	2683.0	2690.8	2683.0	2690.8	2683.0	2690.8	2679.1	2690.8	2698.6
7.5°	2667.4	2659.5	2647.8	2647.8	2643.9	2636.1	2624.3	2655.6	2640.0	2651.7
10°	2671.3	2659.5	2620.4	2628.2	2593.0	2593.0	2600.9	2600.9	2636.1	2675.2
12.5°	2671.3	2647.8	2636.1	2585.2	2585.2	2589.1	2608.7	2616.5	2640.0	2655.6
15°	2671.3	2659.5	2640.0	2573.5	2589.1	2581.3	2600.9	2600.9	2651.7	2679.1
17.5°	2686.9	2694.7	2659.5	2597.0	2600.9	2616.5	2604.8	2616.5	2679.1	2698.6
20°	2690.8	2659.5	2647.8	2608.7	2643.9	2636.1	2632.2	2655.6	2675.2	2710.4
22.5°	2683.0	2694.7	2647.8	2643.9	2675.2	2690.8	2698.6	2671.3	2694.7	2718.2
25°	2749.5	2706.5	2694.7	2686.9	2702.6	2718.2	2710.4	2733.8	2733.8	2761.2
27.5°	2929.4	2933.3	2909.8	2816.0	2784.7	2749.5	2765.1	2827.7	2902.0	2960.7
30°	3011.5	3027.2	3089.8	3074.1	3062.4	3074.1	3070.2	3085.8	3093.7	3097.6
32.5°	3085.8	3078.0	3050.6	3121.0	3351.8	3527.8	3359.6	3128.9	3078.0	3062.4
35°	3355.7	3355.7	3297.0	3207.1	3328.3	3371.4	3293.1	3183.6	3246.2	3375.3
37.5°	3703.8	3653.0	3676.4	3664.7	3531.7	3437.8	3574.7	3645.1	3656.9	3653.0
40°	3911.1	3875.9	3840.7	3903.3	4024.5	4110.5	3989.3	3821.1	3864.1	3950.2
42.5°	4384.3	4294.4	4302.2	4239.6	4235.7	4208.3	4180.9	4192.7	4255.3	4353.0
45°	4869.3	4912.3	4884.9	4767.6	4822.4	4822.4	4744.1	4802.8	4834.1	4947.5
47.5°	5628.0	5608.5	5620.2	5514.6	5510.7	5538.1	5510.7	5514.6	5612.4	5604.6
50°	6515.9	6570.6	6586.3	6535.4	6472.8	6461.1	6418.1	6472.8	6531.5	6535.4
52.5°	7743.9	7802.6	7802.6	7818.3	7896.5	7857.4	7849.5	7853.5	7740.0	7661.8
55°	9292.7	9312.3	9378.8	9515.7	9754.2	9785.5	9636.9	9570.4	9363.1	9238.0
57.5°	10822.0	10900.2	11084.0	11439.9	11733.2	12054.0	11623.7	11185.7	10778.9	10579.5
60°	12093.1	12206.5	12558.5	13055.2	13868.7	14162.0	13434.6	12683.6	11858.4	11248.3
62.5°	12691.5	12867.5	13164.7	14169.9	15390.1	15812.5	14744.8	13379.8	12128.3	11541.6
64°	12695.4	12722.8	13317.2	14400.6	15656.1	16473.5	15061.6	13379.8	12194.8	11471.2
65°	12433.3	12546.8	13121.7	14189.4	15487.9	16528.2	14952.1	13196.0	11921.0	11357.8
67.5°	11244.4	11240.5	11772.4	12832.3	14635.3	15906.4	14021.2	12167.4	11244.4	10634.2
70°	8530.1	8667.0	9175.4	10477.8	12664.1	14025.1	12261.2	10340.9	9191.0	8702.2
72.5°	5104.0	5283.9	5933.1	7521.0	9836.4	11490.8	9730.8	7650.1	6265.6	5491.2
75°	2327.1	2460.1	2905.9	4200.5	6555.0	8401.0	6594.1	4423.4	3171.9	2679.1
77.5°	653.2	735.3	981.7	1928.2	3598.2	5037.5	3699.9	2131.5	1384.5	1149.9
80°	293.3	309.0	348.1	469.3	1142.0	2221.5	1529.2	782.2	520.2	430.2
82.5°	160.4	172.1	226.8	242.5	324.6	590.6	504.5	367.6	312.9	250.3
85°	90.0	93.9	129.1	129.1	156.4	172.1	183.8	195.6	191.6	140.8
87.5°	27.4	31.3	39.1	39.1	39.1	39.1	62.6	86.0	93.9	66.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C



90°  
2706.5  
2726.0  
2710.4  
2671.3  
2686.9  
2694.7  
2698.6  
2726.0  
2741.7  
2745.6  
2796.4  
2972.4  
3085.8  
3078.0  
3383.1  
3692.1  
3915.0  
4368.7  
4963.2  
5561.6  
6500.2  
7700.9  
9335.8  
10614.7  
11494.7  
11529.9  
11604.2  
*11420.4*  
10708.5  
8674.8  
5510.7  
2608.7  
1126.4  
410.7  
242.5  
136.9  
66.5  
0.0

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