

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: P574934

Luminaire Tested: **EPH-VN-08-735-U-5WQ**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P574934  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-08-735-U-5WQ  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ 5WQ distribution lens  
Light Source: (128) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

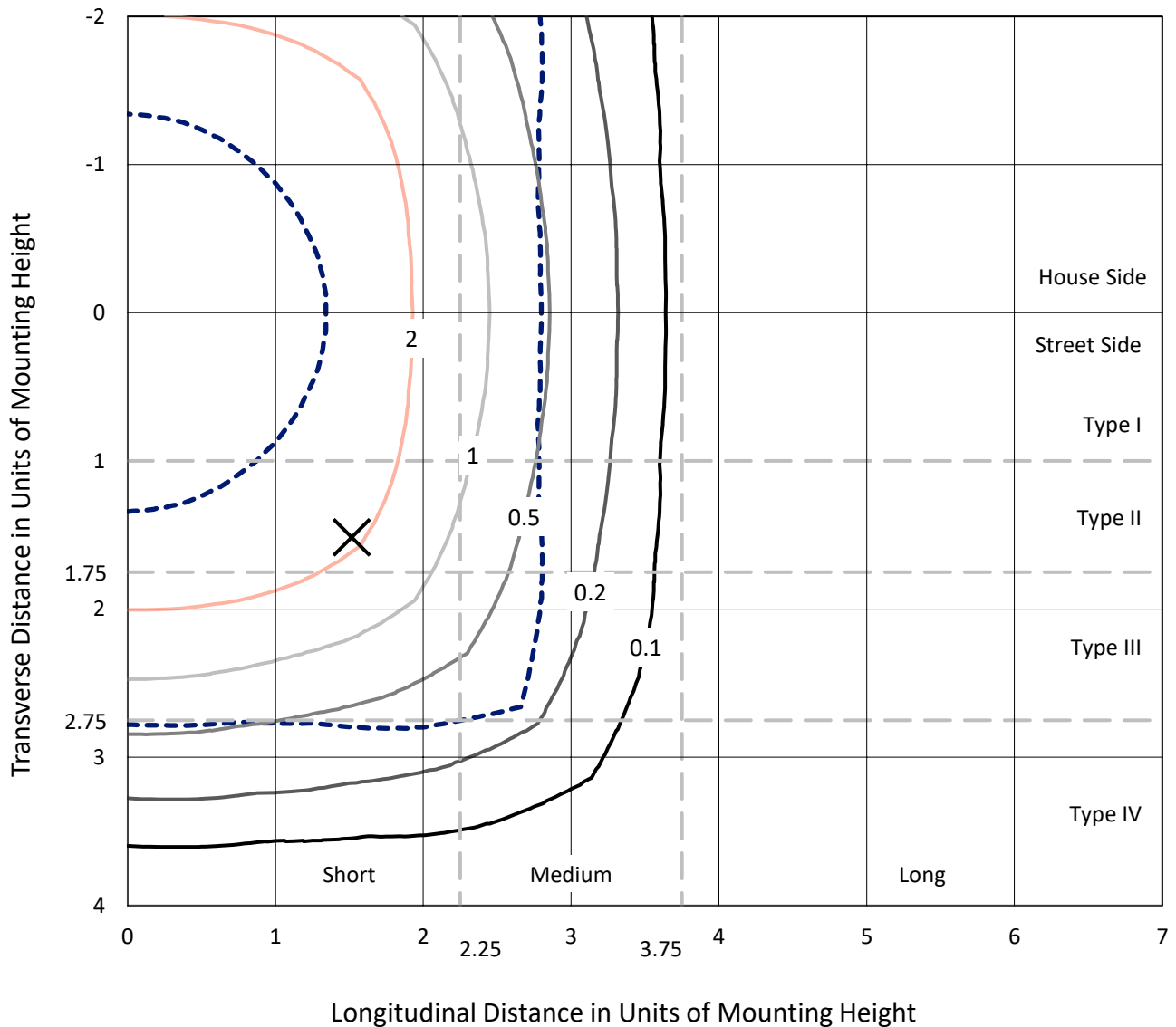
Lumens per Lamp: N/A  
Luminaire Lumens: 56424 lumens  
Efficiency: N/A  
Efficacy: 115.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5

Input Watts (W): 488.3  
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

REPORT NUMBER: P574934  
 CATALOG NUMBER: EPH-VN-08-735-U-5WQ

### Iso-Footcandle Lines of Horizontal Illumination

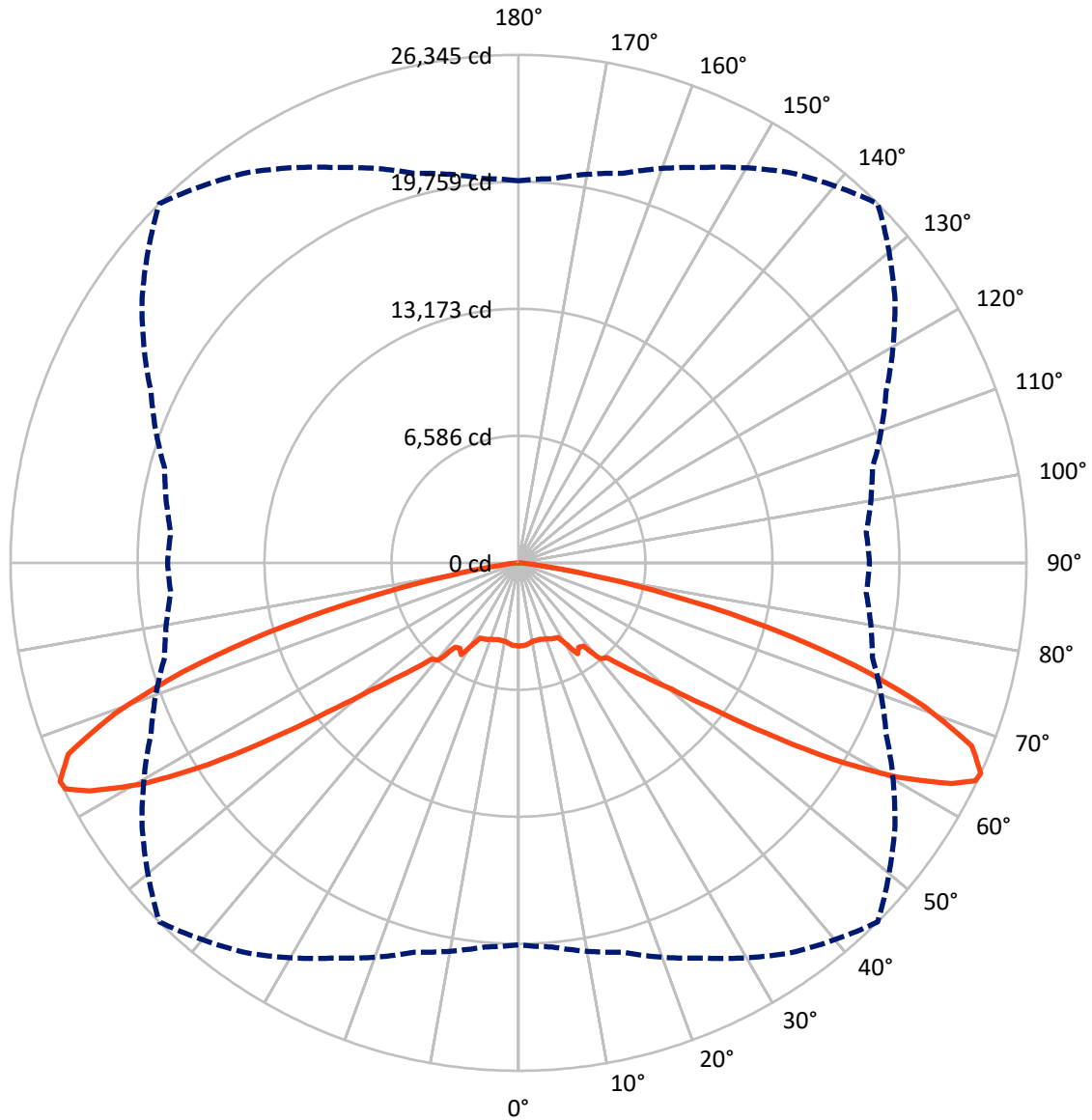
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.8 fc  
 Type V - Short - N/A

REPORT NUMBER: P574934  
CATALOG NUMBER: EPH-VN-08-735-U-5WQ

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P574934

CATALOG NUMBER: EPH-VN-08-735-U-5WQ

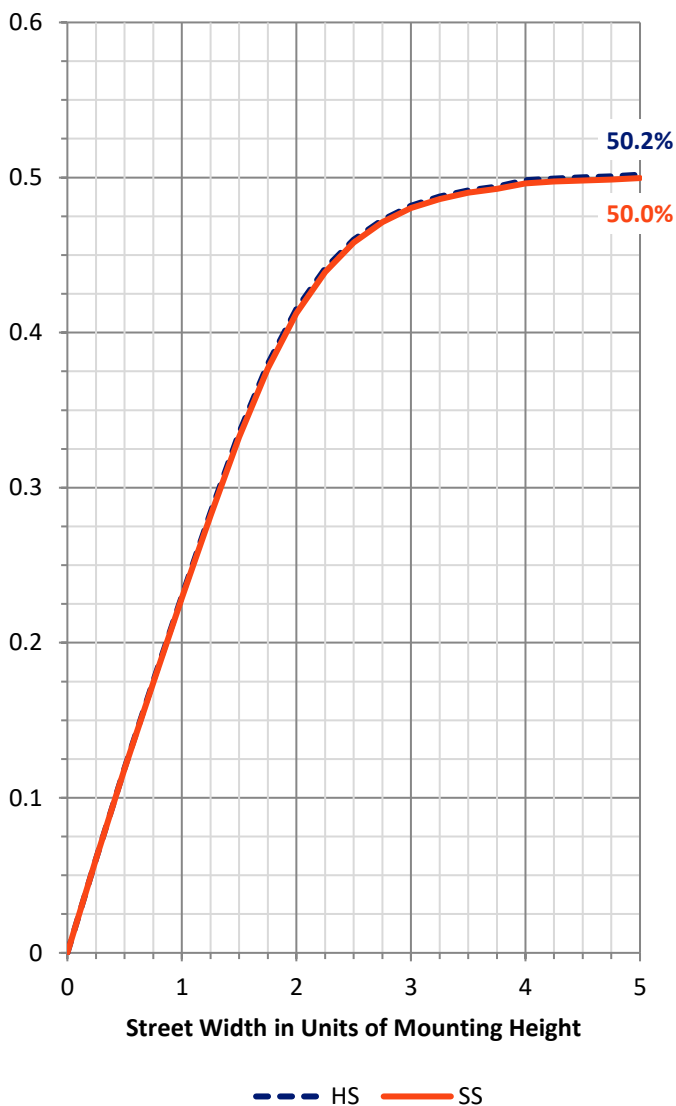
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	28212.0	0.0	28212.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	28212.0	0.0	28212.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	56424.0	0.0	56424.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	404.8	0.7
10°-20°	1189.2	2.1
20°-30°	2058.4	3.6
30°-40°	3422.7	6.1
40°-50°	6175.1	10.9
50°-60°	13756.1	24.4
60°-70°	20501.0	36.3
70°-80°	8495.9	15.1
80°-90°	420.8	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°	56424.0	100.0
0°-180°	56424.0	100.0

**Coefficient of Utilization**



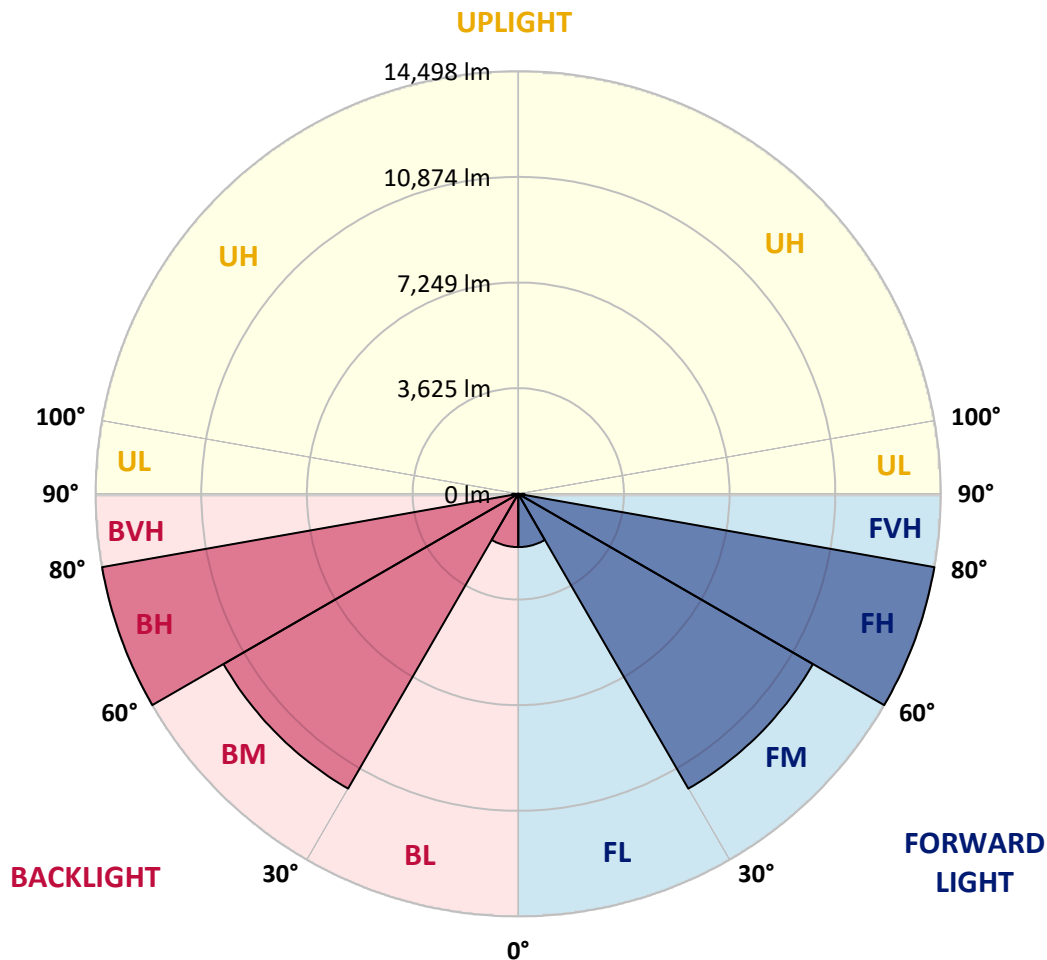
REPORT NUMBER: P574934  
 CATALOG NUMBER: EPH-VN-08-735-U-5WQ

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1826.2	3.2			
FM (30°-60°)	11677.0	20.7			
FH (60°-80°)	14498.4	25.7			G5
FVH (80°-90°)	210.4	0.4			G2/225
BL (0°-30°)	1826.2	3.2	B3/2500		
BM (30°-60°)	11677.0	20.7	B5		
BH (60°-80°)	14498.4	25.7	B5		G5
BVH (80°-90°)	210.4	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-G5**

Type V Short





REPORT NUMBER: P574934  
 CATALOG NUMBER: EPH-VN-08-735-U-5WQ

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4314.0	4314.0	4314.0	4314.0	4314.0	4314.0	4314.0	4314.0	4314.0	4314.0
2.5°	4264.1	4276.6	4270.3	4270.3	4289.0	4301.5	4307.7	4370.1	4345.1	4363.8
5°	4276.6	4276.6	4289.0	4276.6	4289.0	4276.6	4289.0	4270.3	4289.0	4301.5
7.5°	4251.6	4239.2	4220.4	4220.4	4214.2	4201.7	4183.0	4232.9	4208.0	4226.7
10°	4257.9	4239.2	4176.8	4189.3	4133.2	4133.2	4145.6	4145.6	4201.7	4264.1
12.5°	4257.9	4220.4	4201.7	4120.7	4120.7	4126.9	4158.1	4170.6	4208.0	4232.9
15°	4257.9	4239.2	4208.0	4102.0	4126.9	4114.5	4145.6	4145.6	4226.7	4270.3
17.5°	4282.8	4295.3	4239.2	4139.4	4145.6	4170.6	4151.9	4170.6	4270.3	4301.5
20°	4289.0	4239.2	4220.4	4158.1	4214.2	4201.7	4195.5	4232.9	4264.1	4320.2
22.5°	4276.6	4295.3	4220.4	4214.2	4264.1	4289.0	4301.5	4257.9	4295.3	4332.7
25°	4382.5	4314.0	4295.3	4282.8	4307.7	4332.7	4320.2	4357.6	4357.6	4401.2
27.5°	4669.3	4675.5	4638.1	4488.5	4438.6	4382.5	4407.5	4507.2	4625.7	4719.2
30°	4800.2	4825.2	4924.9	4900.0	4881.3	4900.0	4893.7	4918.7	4931.1	4937.4
32.5°	4918.7	4906.2	4862.6	4974.8	5342.6	5623.1	5355.0	4987.2	4906.2	4881.3
35°	5348.8	5348.8	5255.3	5111.9	5305.2	5373.7	5249.1	5074.5	5174.3	5380.0
37.5°	5903.6	5822.6	5860.0	5841.3	5629.3	5479.7	5697.9	5810.1	5828.8	5822.6
40°	6234.0	6177.9	6121.8	6221.6	6414.8	6552.0	6358.7	6090.7	6159.2	6296.4
42.5°	6988.4	6845.0	6857.4	6757.7	6751.5	6707.8	6664.2	6682.9	6782.6	6938.5
45°	7761.4	7830.0	7786.3	7599.3	7686.6	7686.6	7561.9	7655.4	7705.3	7886.1
47.5°	8970.8	8939.6	8958.3	8790.0	8783.8	8827.4	8783.8	8790.0	8945.9	8933.4
50°	10385.9	10473.2	10498.1	10417.1	10317.3	10298.6	10230.1	10317.3	10410.9	10417.1
52.5°	12343.4	12436.9	12436.9	12461.9	12586.5	12524.2	12511.7	12518.0	12337.2	12212.5
55°	14812.1	14843.3	14949.2	15167.4	15547.7	15597.6	15360.7	15254.7	14924.3	14724.8
57.5°	17249.6	17374.3	17667.3	18234.6	18702.1	19213.3	18527.6	17829.4	17181.0	16863.1
60°	19275.7	19456.5	20017.5	20809.2	22105.9	22573.5	21413.9	20217.0	18901.6	17929.1
62.5°	20229.5	20510.0	20983.8	22585.9	24531.0	25204.2	23502.3	21326.7	19331.8	18396.7
64°	20235.7	20279.3	21226.9	22953.8	24954.9	26257.8	24007.3	21326.7	19437.8	18284.5
65°	19818.0	19998.8	20915.2	22617.1	24686.8	26345.1	23832.8	21033.7	19001.4	18103.7
67.5°	17922.9	17916.6	18764.5	20453.9	23327.8	25353.9	22349.0	19394.1	17922.9	16950.4
70°	13596.5	13814.6	14625.1	16701.0	20185.8	22355.3	19543.7	16482.8	14650.0	13870.7
72.5°	8135.4	8422.2	9457.0	11988.1	15678.6	18315.6	15510.3	12193.8	9986.9	8752.6
75°	3709.3	3921.2	4631.9	6695.4	10448.3	13390.7	10510.6	7050.7	5055.8	4270.3
77.5°	1041.1	1172.0	1564.7	3073.4	5735.3	8029.4	5897.4	3397.6	2206.9	1832.8
80°	467.6	492.5	554.8	748.1	1820.3	3540.9	2437.5	1246.8	829.1	685.7
82.5°	255.6	274.3	361.6	386.5	517.4	941.3	804.2	586.0	498.7	399.0
85°	143.4	149.6	205.7	205.7	249.4	274.3	293.0	311.7	305.5	224.4
87.5°	43.6	49.9	62.3	62.3	62.3	62.3	99.7	137.1	149.6	106.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C



90°
4314.0
4345.1
4320.2
4257.9
4282.8
4295.3
4301.5
4345.1
4370.1
4376.3
4457.3
4737.9
4918.7
4906.2
5392.4
5884.9
6240.3
6963.4
7911.0
8864.8
10361.0
12274.8
14880.7
16919.2
18321.9
18378.0
18496.4
18203.4
17068.8
13827.1
8783.8
4158.1
1795.4
654.6
386.5
218.2
106.0
0.0

OF REPORT)