

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: McGRAW-EDISON

Report Number: P534281

Luminaire Tested: **GALN-SA9D-735-U-5NQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P534281  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9D-735-U-5NQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 44880 lumens  
Efficiency: N/A  
Efficacy: 81.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

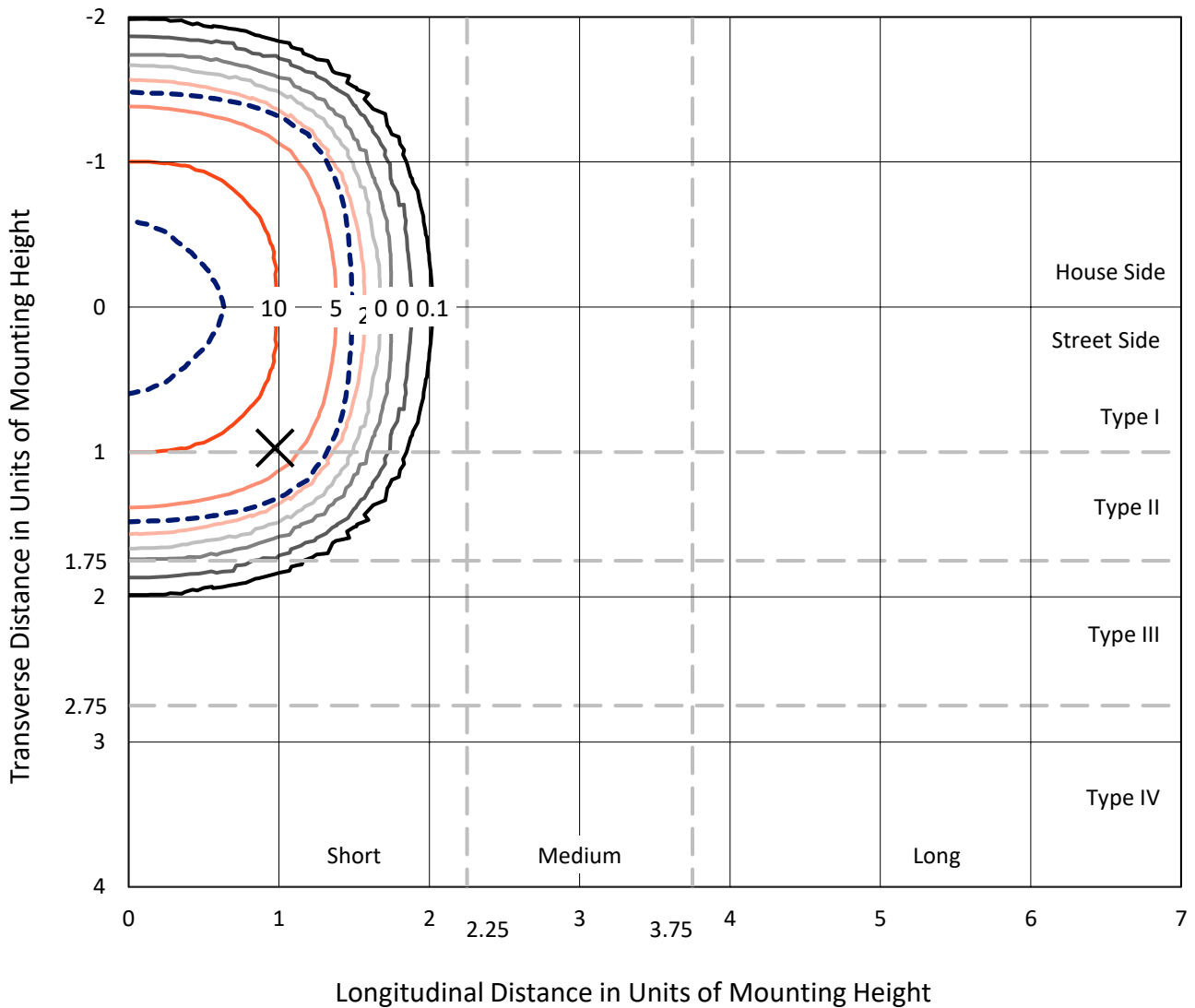
Input Watts (W): 552  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

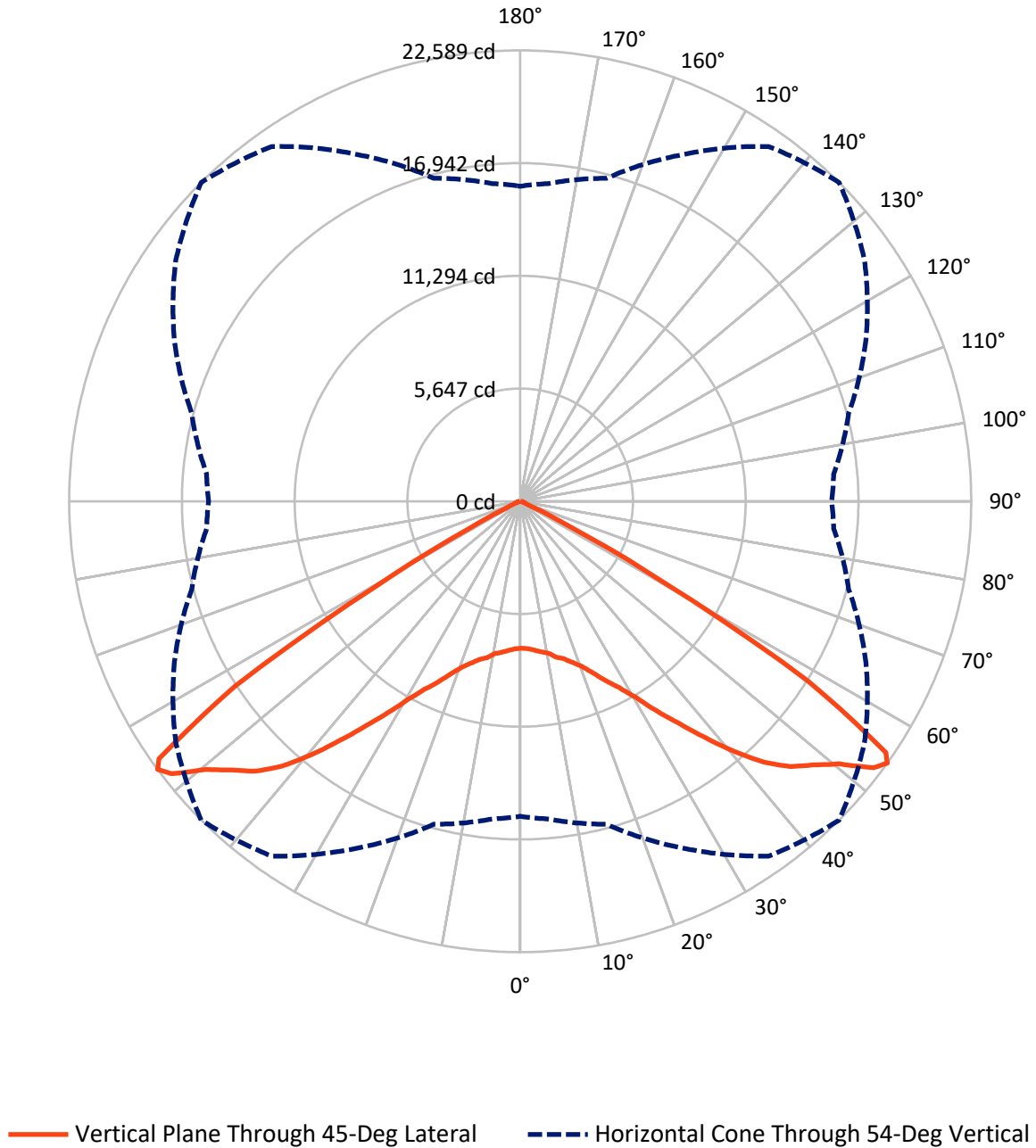
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



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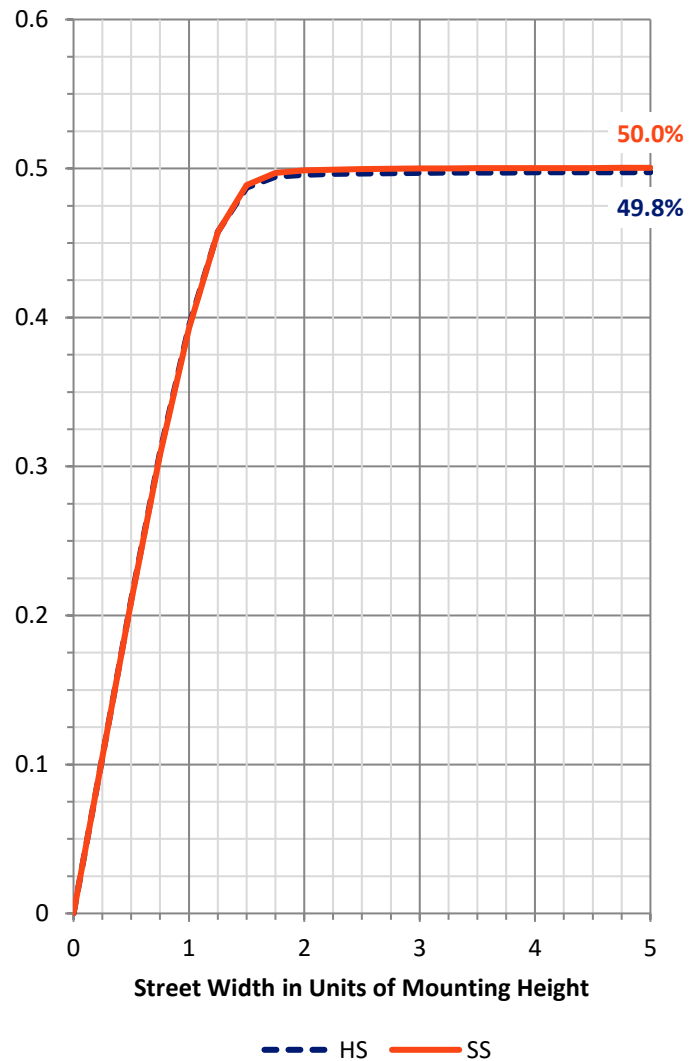
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	22440.0	0.0	22440.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	22440.0	0.0	22440.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	44880.0	0.0	44880.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	720.3	1.6
10°-20°	2332.5	5.2
20°-30°	4571.5	10.2
30°-40°	8220.6	18.3
40°-50°	14072.0	31.4
50°-60°	13616.0	30.3
60°-70°	1165.6	2.6
70°-80°	138.2	0.3
80°-90°	43.3	0.1
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°	44880.0	100.0
0°-180°	44880.0	100.0



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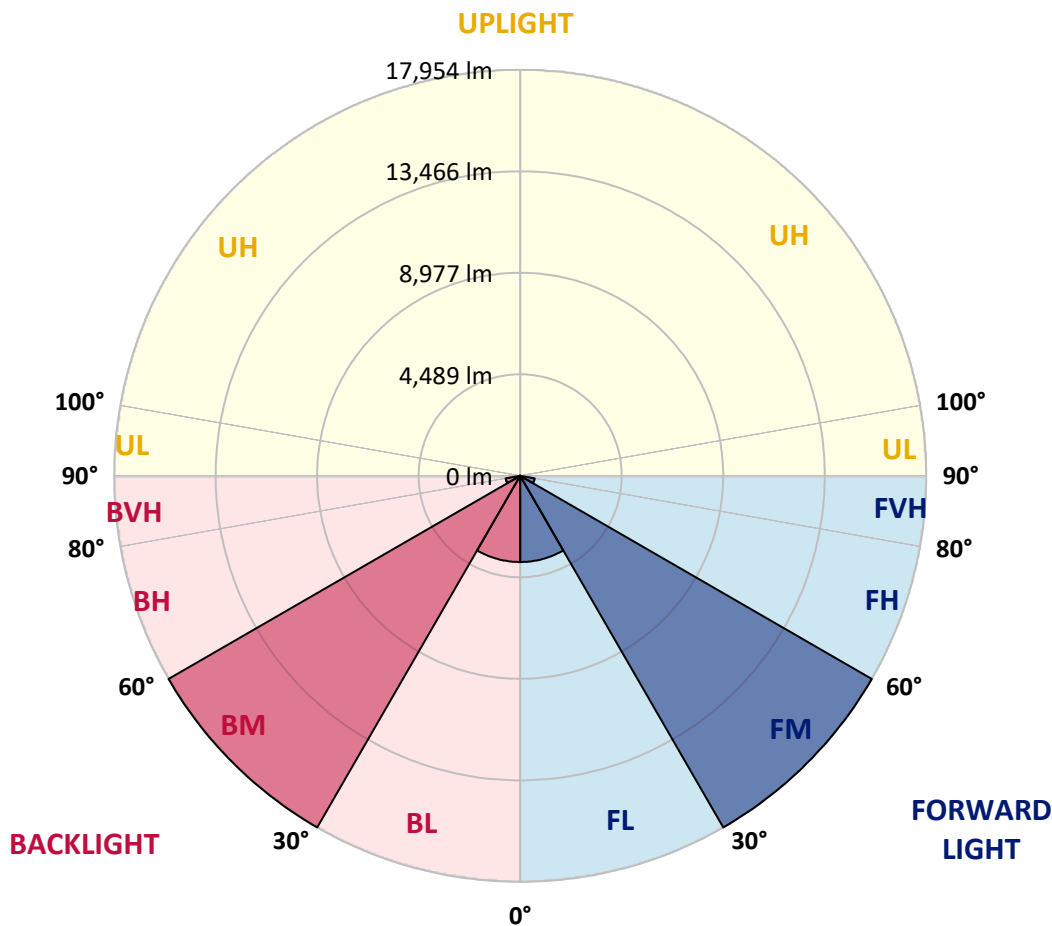
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3812.1	8.5			
FM (30°-60°)	17954.3	40.0			
FH (60°-80°)	651.9	1.5			G0/660
FVH (80°-90°)	21.7	0.0			G1/100
BL (0°-30°)	3812.1	8.5	B4/5000		
BM (30°-60°)	17954.3	40.0	B5		
BH (60°-80°)	651.9	1.5	B2/1000		G0/660
BVH (80°-90°)	21.7	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7358.9	7358.9	7358.9	7358.9	7358.9	7358.9	7358.9	7358.9	7358.9	7358.9	7358.9
2.5°	7394.5	7437.1	7408.7	7430.0	7430.0	7394.5	7415.8	7330.5	7387.4	7344.7	7351.8
5°	7508.2	7501.1	7501.1	7508.2	7479.8	7494.0	7465.6	7437.1	7415.8	7387.4	7472.7
7.5°	7650.4	7650.4	7600.7	7614.9	7600.7	7622.0	7565.1	7508.2	7486.9	7465.6	7451.4
10°	7785.5	7771.3	7750.0	7814.0	7764.2	7735.8	7707.3	7671.8	7593.6	7565.1	7536.7
12.5°	7984.6	7977.5	7949.1	8013.0	7984.6	8013.0	7906.4	7814.0	7799.7	7707.3	7757.1
15°	8219.2	8283.2	8233.5	8233.5	8219.2	8183.7	8141.0	8098.4	7970.4	7934.8	7941.9
17.5°	8525.0	8503.6	8510.8	8510.8	8581.9	8489.4	8404.1	8297.5	8233.5	8212.1	8141.0
20°	8816.5	8844.9	8837.8	8887.6	8930.2	8830.7	8738.3	8724.1	8546.3	8574.7	8475.2
22.5°	9328.4	9307.1	9342.6	9378.2	9349.7	9335.5	9250.2	9143.5	8987.1	8916.0	8901.8
25°	9868.8	9833.2	9769.2	9854.6	9897.2	9961.2	9797.7	9740.8	9499.1	9392.4	9399.5
27.5°	10330.9	10380.7	10451.8	10487.4	10594.0	10572.7	10458.9	10274.1	10089.2	9968.3	9890.1
30°	10963.7	10992.2	11113.0	11162.8	11347.7	11397.4	11219.7	11006.4	10679.3	10522.9	10430.5
32.5°	11546.8	11745.8	11738.7	11987.6	12286.2	12492.4	12172.4	11845.4	11518.3	11333.5	11169.9
35°	12492.4	12456.8	12663.0	12926.1	13409.6	13644.2	13295.8	12919.0	12421.3	12122.7	11994.7
37.5°	13374.0	13388.3	13665.6	14085.0	14639.6	15002.2	14696.5	14077.9	13566.0	13182.1	13004.3
40°	14653.9	14682.3	14966.7	15443.1	16068.8	16459.8	16104.3	15478.6	14796.1	14497.4	14497.4
42.5°	16154.1	16274.9	16459.8	16872.2	17433.9	17867.6	17547.7	17057.1	16367.4	15983.4	16040.3
45°	17697.0	17753.8	17874.7	18486.2	18749.3	18962.6	18663.9	18436.4	17974.3	17505.0	17426.8
47.5°	19140.3	19161.6	19517.1	19709.1	19915.3	19737.6	19929.5	19630.9	19111.9	18656.8	18564.4
50°	19780.2	19744.7	20249.5	20832.5	20988.9	20676.1	20512.5	20313.5	19524.3	18976.8	18735.0
52.5°	17917.4	18123.6	19062.1	20683.2	21906.1	22169.2	21216.4	20299.2	18827.5	17761.0	17597.4
54°	15784.4	15976.3	16751.3	19154.5	21699.9	22588.7	21052.9	19104.8	17028.6	15763.0	15599.5
55°	13672.7	13459.4	14867.2	17320.1	20733.0	22219.0	20405.9	17561.9	15187.1	14028.2	13800.6
57.5°	7401.6	7437.1	8624.5	10942.4	14568.5	17035.7	15044.9	11880.9	8972.9	7671.8	7558.0
60°	2346.3	2403.2	2922.2	4422.5	6960.8	8311.7	7124.3	4770.9	3299.1	2644.9	2538.3
62.5°	732.3	760.8	831.9	1237.2	1905.5	2723.2	2133.0	1279.8	952.7	874.5	888.8
65°	447.9	447.9	455.0	483.5	568.8	661.2	639.9	561.7	540.4	526.1	519.0
67.5°	291.5	284.4	298.6	320.0	334.2	341.3	362.6	383.9	376.8	362.6	362.6
70°	177.8	170.6	184.9	213.3	220.4	234.6	256.0	284.4	277.3	263.1	270.2
72.5°	99.5	99.5	106.7	128.0	149.3	163.5	184.9	206.2	213.3	206.2	206.2
75°	35.6	42.7	56.9	78.2	92.4	113.8	135.1	156.4	177.8	163.5	156.4
77.5°	14.2	14.2	28.4	49.8	71.1	92.4	128.0	149.3	163.5	149.3	135.1
80°	7.1	7.1	21.3	42.7	64.0	85.3	106.7	128.0	135.1	120.9	106.7
82.5°	7.1	7.1	21.3	42.7	64.0	78.2	113.8	128.0	142.2	128.0	106.7
85°	0.0	7.1	21.3	42.7	56.9	64.0	64.0	42.7	35.6	21.3	21.3
87.5°	0.0	0.0	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)