

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: P651603

Luminaire Tested: **GALN-SA9D-840-U-5NQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651603  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9D-840-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6152.8 lumens  
Efficiency: N/A  
Efficacy: 111.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

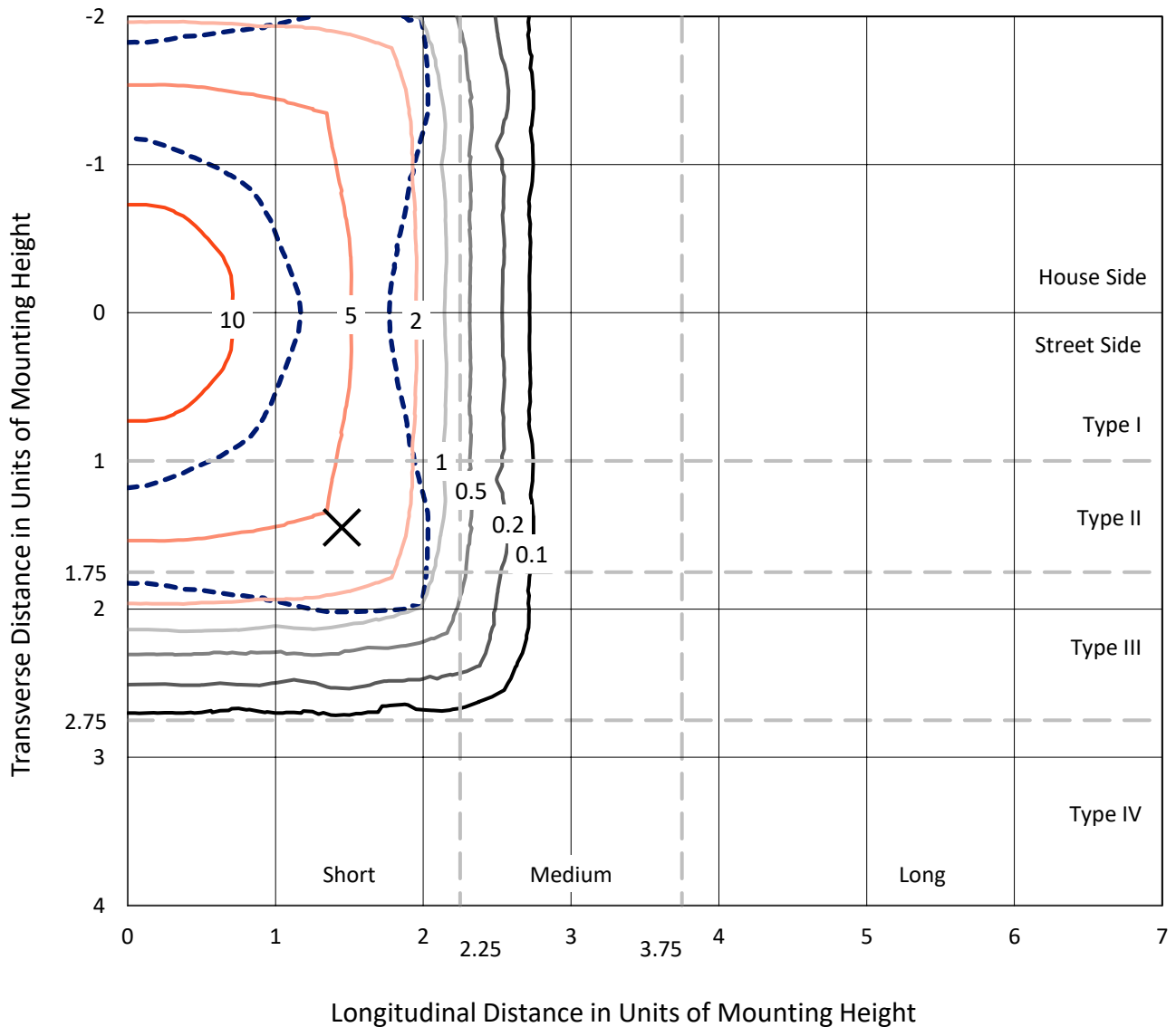
Input Watts (W): 552  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

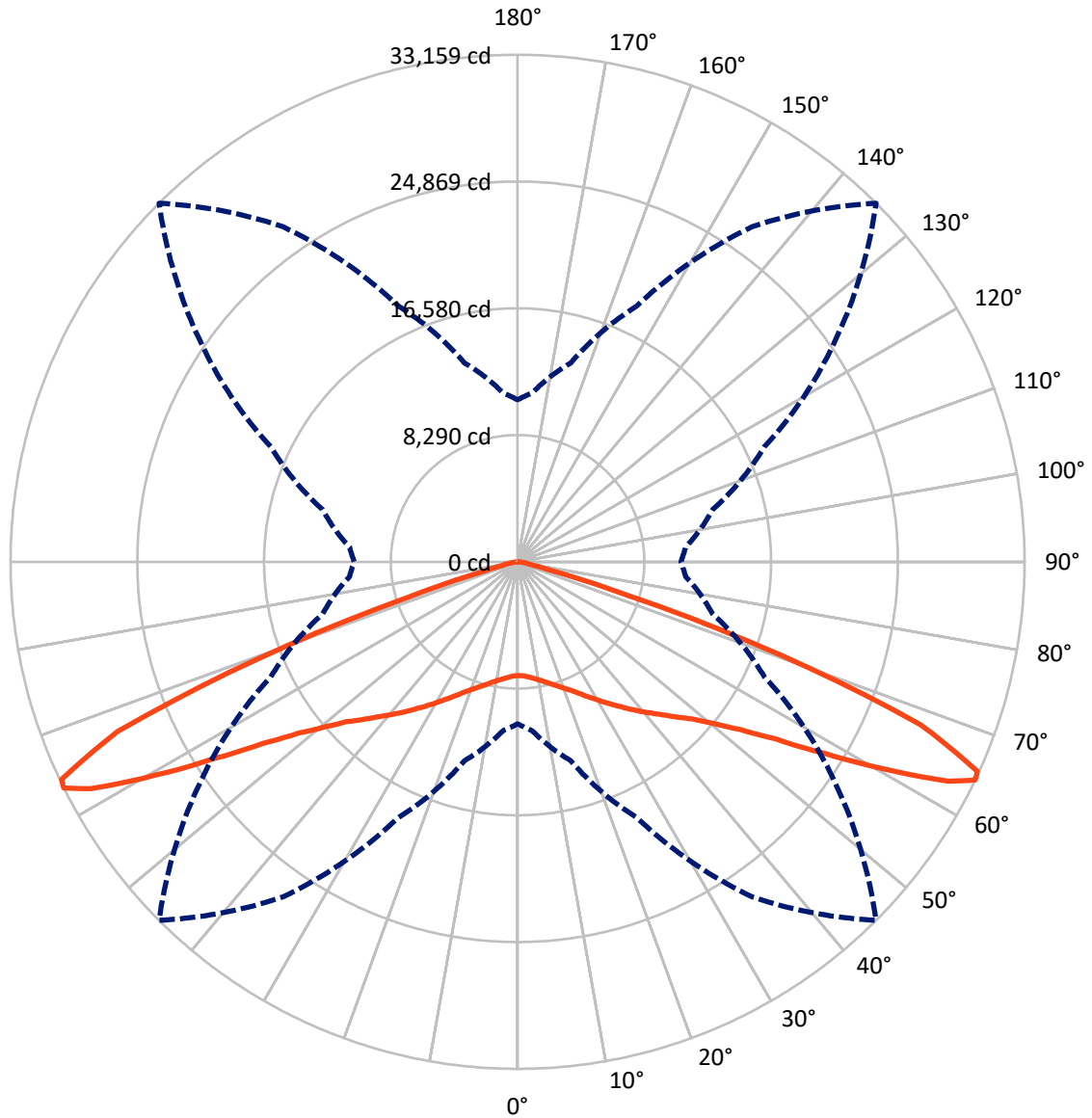
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 64-Deg Vertical

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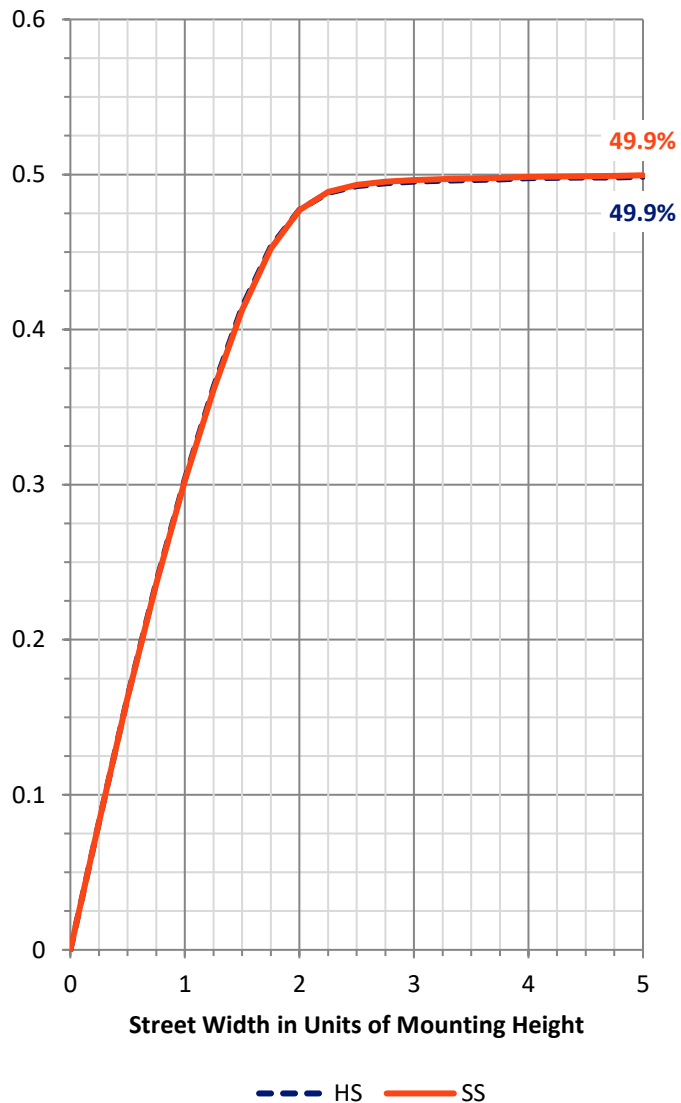
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	30776.4	0.0	30776.4
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	30776.4	0.0	30776.4
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	61552.8	0.0	61552.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	730.9	1.2
10°-20°	2357.6	3.8
20°-30°	4455.2	7.2
30°-40°	7378.4	12.0
40°-50°	11518.8	18.7
50°-60°	17807.8	28.9
60°-70°	15355.4	24.9
70°-80°	1740.2	2.8
80°-90°	208.5	0.3
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°	61552.8	100.0
0°-180°	61552.8	100.0

**Coefficient of Utilization**



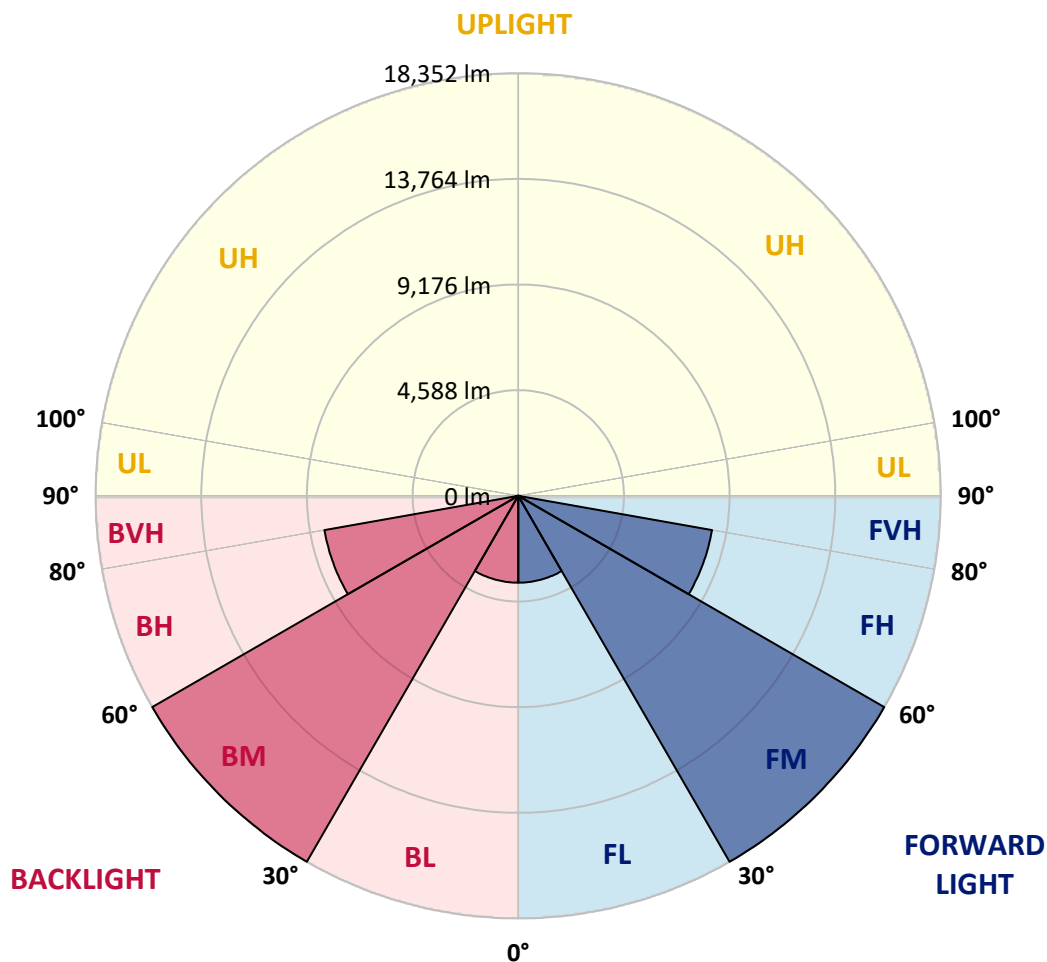
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3771.9	6.1			
FM (30°-60°)	18352.5	29.8			
FH (60°-80°)	8547.8	13.9			G4/12000
FVH (80°-90°)	104.2	0.2			G2/225
BL (0°-30°)	3771.9	6.1	B4/5000		
BM (30°-60°)	18352.5	29.8	B5		
BH (60°-80°)	8547.8	13.9	B5		G4/12000
BVH (80°-90°)	104.2	0.2			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°	90°
0°	7439.7	7439.7	7439.7	7439.7	7439.7	7439.7	7439.7	7439.7	7439.7	7439.7	7439.7
2.5°	7469.0	7485.3	7472.3	7469.0	7465.8	7465.8	7465.8	7469.0	7482.0	7491.9	7485.3
5°	7563.6	7576.7	7570.1	7566.8	7563.6	7566.8	7560.3	7557.1	7566.8	7566.8	7563.6
7.5°	7680.9	7697.3	7690.7	7697.3	7700.5	7703.7	7687.5	7674.5	7671.2	7680.9	7674.5
10°	7840.7	7853.8	7857.0	7860.2	7866.8	7863.5	7843.9	7821.1	7817.9	7814.6	7811.4
12.5°	8020.0	8029.8	8033.1	8046.1	8055.9	8059.1	8036.3	8016.7	7984.1	7990.7	7977.6
15°	8222.1	8241.7	8238.4	8258.0	8284.1	8290.6	8267.8	8235.2	8205.8	8189.5	8179.7
17.5°	8469.9	8482.9	8476.4	8496.0	8528.6	8544.9	8525.3	8482.9	8453.6	8417.7	8398.1
20°	8763.3	8786.1	8792.7	8792.7	8822.0	8838.3	8809.0	8795.9	8750.3	8724.2	8707.9
22.5°	9095.8	9105.6	9125.2	9144.8	9174.1	9167.6	9157.8	9138.2	9095.8	9073.0	9047.0
25°	9470.8	9480.6	9529.5	9571.8	9581.6	9575.1	9562.1	9552.2	9513.1	9461.0	9441.4
27.5°	9907.7	9927.2	9992.4	10031.5	10031.5	10034.8	10008.7	10041.3	9956.5	9894.6	9888.1
30°	10455.3	10468.3	10523.8	10563.0	10543.4	10527.0	10520.6	10553.1	10461.9	10351.0	10325.0
32.5°	10996.5	11042.2	11091.1	11175.8	11107.3	11078.1	11071.5	11094.3	10990.0	10866.1	10830.2
35°	11576.9	11609.4	11700.7	11772.5	11710.5	11642.0	11671.4	11743.1	11619.3	11453.0	11446.4
37.5°	12219.1	12248.4	12365.8	12440.7	12395.2	12277.8	12326.7	12411.5	12287.5	12082.1	12039.8
40°	12887.4	12949.4	13096.1	13174.3	13099.3	12942.8	13034.2	13125.4	13014.6	12776.6	12682.0
42.5°	13637.2	13735.0	13947.0	13986.1	13842.6	13630.8	13790.5	13937.2	13858.9	13585.1	13549.3
45°	14514.2	14572.9	14833.7	14918.5	14719.6	14455.5	14654.4	14921.8	14863.1	14546.9	14478.4
47.5°	15495.5	15550.9	15821.6	15948.7	15697.7	15342.4	15701.0	16049.8	16013.9	15674.9	15642.3
50°	16656.2	16669.2	17044.1	17187.6	16936.6	16630.1	16949.6	17383.2	17239.7	16806.1	16799.6
52.5°	17927.6	17943.9	18416.6	18693.7	18553.6	18208.0	18586.2	18850.3	18485.1	17917.8	17875.5
55°	19029.6	19111.1	19756.6	20493.4	20685.7	20434.7	20548.8	20424.9	19525.1	18729.7	18605.8
57.5°	19479.5	19639.2	20620.6	21996.4	23248.2	23619.9	22739.6	21559.5	19939.2	18814.4	18693.7
60°	18380.8	18553.6	20076.1	22687.5	25882.4	27496.2	25021.8	21751.8	18996.9	17415.8	17226.7
62.5°	14719.6	14768.5	17008.3	21060.7	27417.9	31597.5	25983.5	20111.9	16255.2	14106.7	14031.7
64°	10592.2	11094.3	13467.7	18465.6	26746.4	33159.1	25429.2	17813.6	13203.6	11029.1	10677.0
65°	7922.2	8059.1	10856.3	15769.4	25563.0	33041.7	24353.4	15616.2	10934.6	8440.5	8049.4
67.5°	2992.9	3009.1	4006.8	7860.2	18198.2	28428.6	18586.2	8496.0	4606.6	3331.9	3211.3
70°	1242.2	1264.9	1470.3	2644.0	7821.1	18253.7	8962.2	3064.5	1685.5	1366.0	1346.4
72.5°	909.6	922.7	984.6	1173.7	2406.0	7495.1	2947.2	1300.8	987.8	883.5	873.7
75°	714.0	720.5	766.2	864.0	1121.5	2076.7	1225.8	893.3	753.1	678.1	671.6
77.5°	544.5	560.8	593.3	658.6	753.1	984.6	811.8	668.3	580.3	518.4	508.6
80°	374.9	394.5	456.4	482.5	505.4	639.0	554.2	505.4	453.1	378.2	355.3
82.5°	231.4	244.5	306.5	329.3	319.5	358.6	355.3	361.9	322.8	234.7	218.4
85°	120.6	127.2	166.3	172.8	159.7	146.7	182.6	211.9	198.9	133.6	130.4
87.5°	26.1	29.4	35.8	32.6	35.8	35.8	45.7	68.5	71.7	45.7	42.4
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)