

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: P651546

Luminaire Tested: **GALN-SA8D-840-U-5NQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651546  
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-SA8D-840-U-5NQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 4000K, 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: 36090.7 lumens  
Efficiency: N/A  
Efficacy: 73.2 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

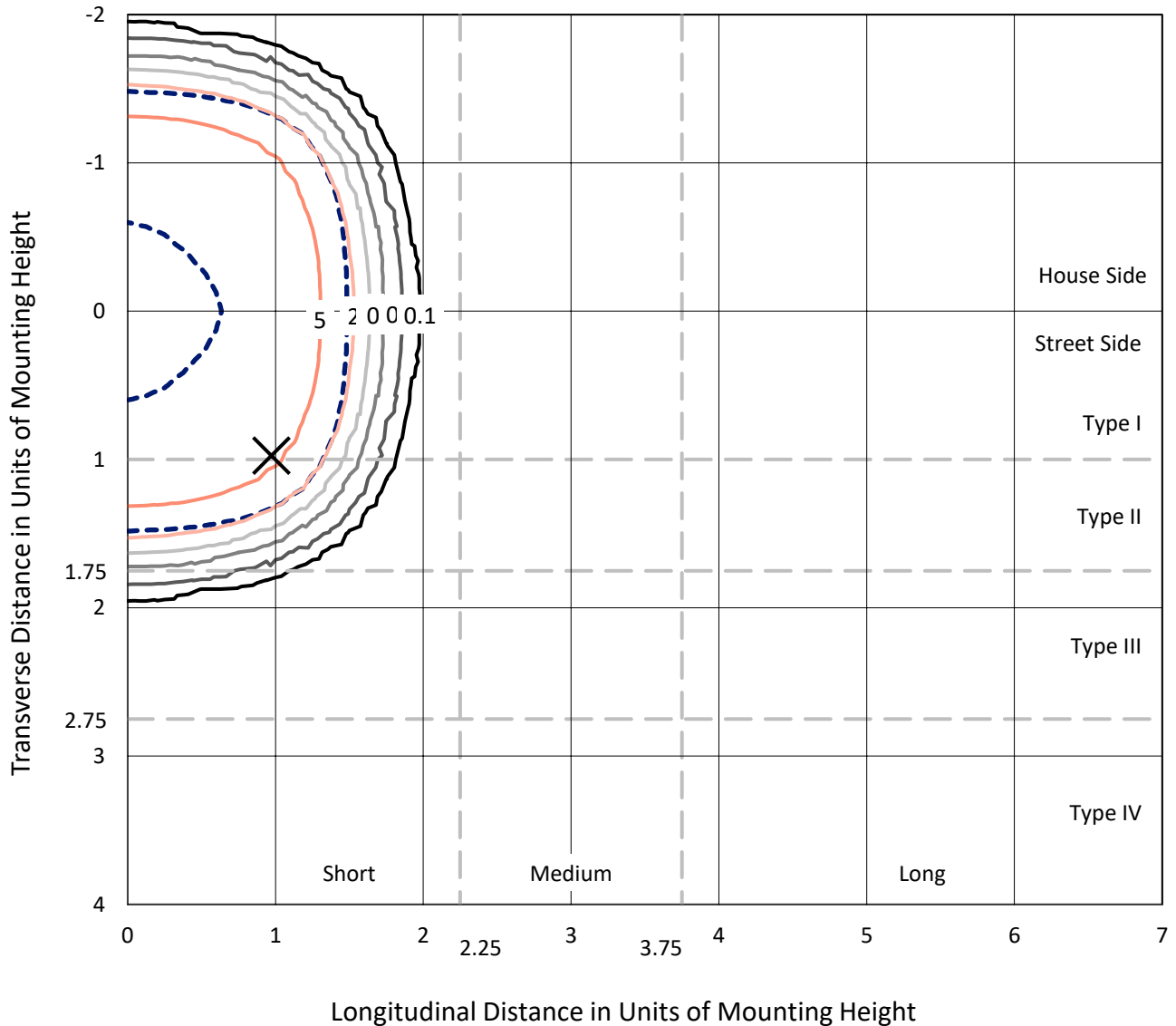
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

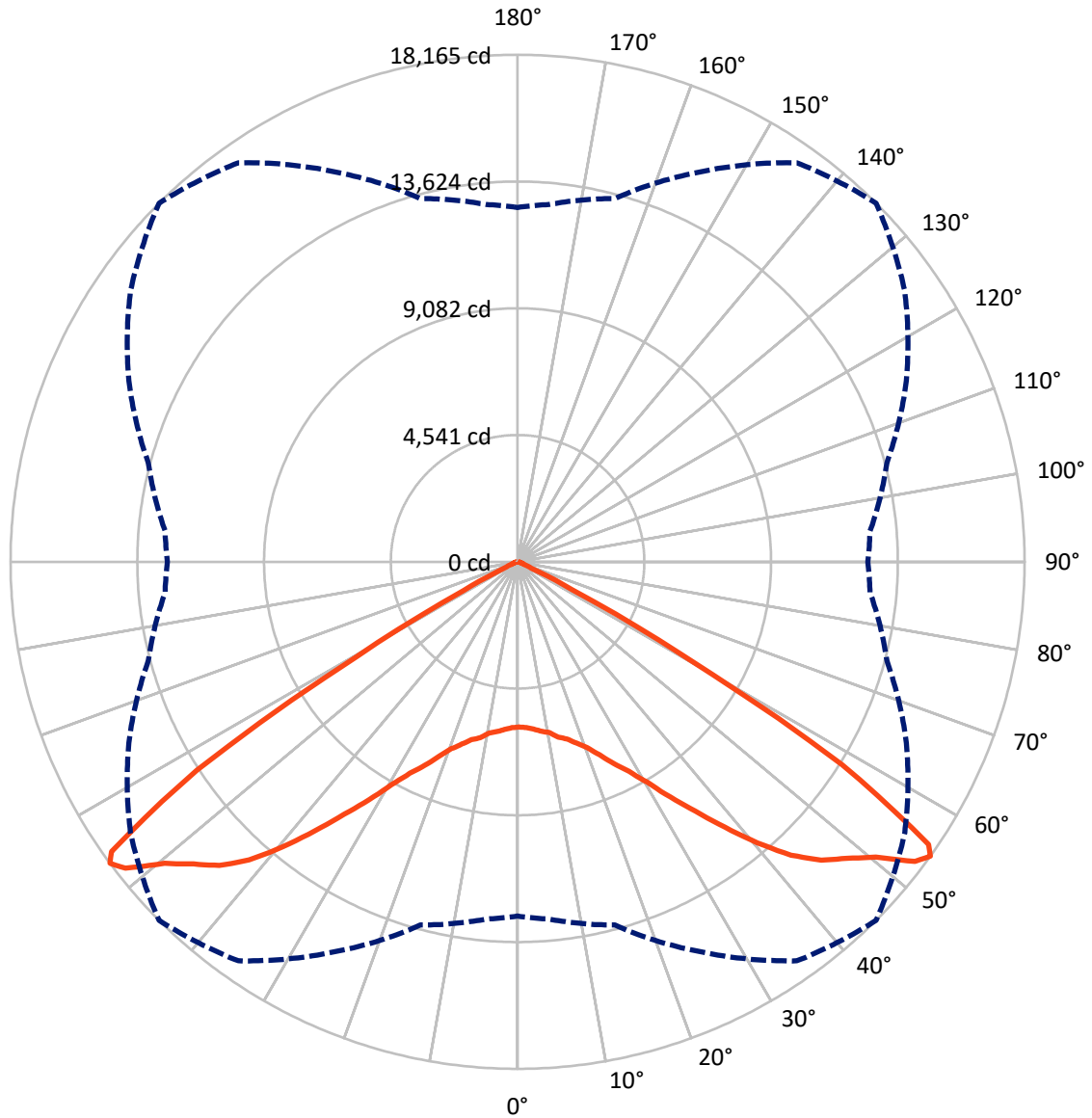
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 54-Deg Vertical

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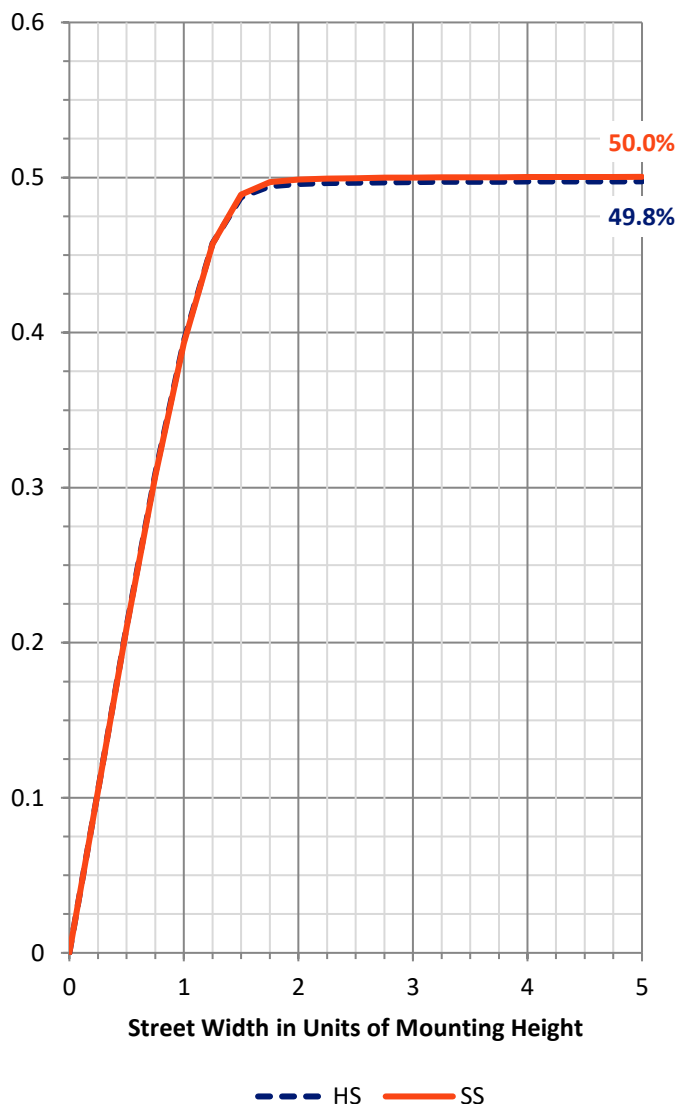
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	18045.3	0.0	18045.3
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	18045.3	0.0	18045.3
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	36090.7	0.0	36090.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	579.2	1.6
10°-20°	1875.7	5.2
20°-30°	3676.2	10.2
30°-40°	6610.7	18.3
40°-50°	11316.2	31.4
50°-60°	10949.5	30.3
60°-70°	937.3	2.6
70°-80°	111.1	0.3
80°-90°	34.9	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°	36090.7	100.0
0°-180°	36090.7	100.0

**Coefficient of Utilization**



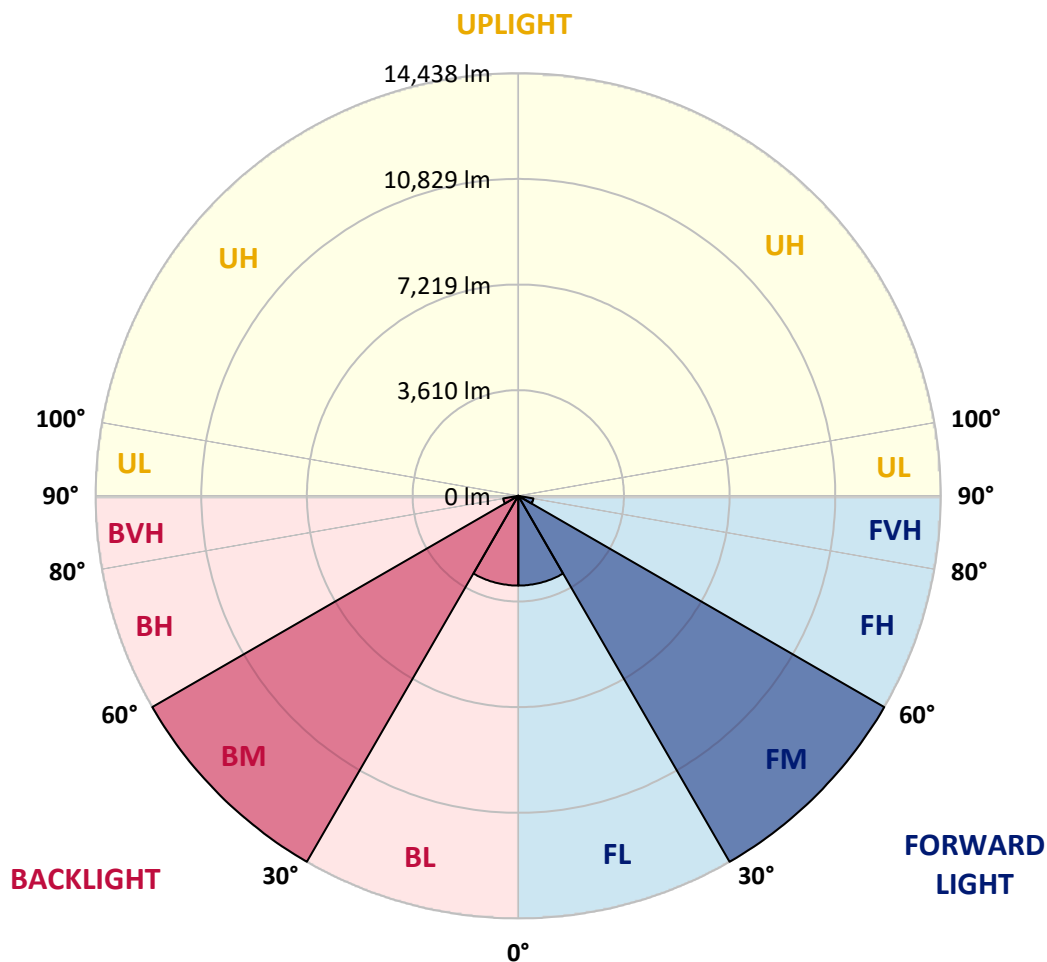
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3065.6	8.5			
FM	(30°-60°)	14438.1	40.0			
FH	(60°-80°)	524.2	1.5			G0/660
FVH	(80°-90°)	17.4	0.0			G1/100
BL	(0°-30°)	3065.6	8.5	B4/5000		
BM	(30°-60°)	14438.1	40.0	B5		
BH	(60°-80°)	524.2	1.5	B2/1000		G0/660
BVH	(80°-90°)	17.4	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°	5917.8	5917.8	5917.8	5917.8	5917.8	5917.8	5917.8	5917.8	5917.8	5917.8	5917.8
2.5°	5946.4	5980.6	5957.7	5974.9	5974.9	5946.4	5963.4	5894.9	5940.7	5906.3	5912.1
5°	6037.8	6032.1	6032.1	6037.8	6014.9	6026.4	6003.5	5980.6	5963.4	5940.7	6009.2
7.5°	6152.2	6152.2	6112.1	6123.6	6112.1	6129.3	6083.5	6037.8	6020.6	6003.5	5992.0
10°	6260.8	6249.4	6232.2	6283.7	6243.7	6220.8	6197.9	6169.3	6106.4	6083.5	6060.7
12.5°	6420.9	6415.1	6392.3	6443.7	6420.9	6443.7	6358.0	6283.7	6272.3	6197.9	6237.9
15°	6609.6	6661.1	6621.0	6621.0	6609.6	6581.0	6546.7	6512.4	6409.4	6380.8	6386.6
17.5°	6855.4	6838.3	6844.0	6844.0	6901.2	6826.8	6758.3	6672.5	6621.0	6603.9	6546.7
20°	7089.9	7112.8	7107.0	7147.1	7181.4	7101.3	7027.0	7015.5	6872.6	6895.4	6815.4
22.5°	7501.6	7484.4	7513.0	7541.6	7518.7	7507.3	7438.6	7352.9	7227.0	7169.9	7158.5
25°	7936.1	7907.5	7856.0	7924.7	7959.0	8010.4	7878.9	7833.2	7638.7	7553.0	7558.7
27.5°	8307.7	8347.8	8405.0	8433.5	8519.2	8502.1	8410.7	8262.0	8113.3	8016.1	7953.3
30°	8816.6	8839.4	8936.6	8976.7	9125.4	9165.4	9022.4	8850.9	8587.9	8462.1	8387.8
32.5°	9285.4	9445.5	9439.8	9640.0	9880.1	10045.9	9788.6	9525.6	9262.5	9113.9	8982.4
35°	10045.9	10017.3	10183.1	10394.7	10783.5	10972.1	10692.0	10389.0	9988.7	9748.5	9645.7
37.5°	10754.9	10766.3	10989.3	11326.6	11772.6	12064.2	11818.3	11320.9	10909.2	10600.5	10457.6
40°	11784.0	11806.9	12035.6	12418.7	12921.9	13236.3	12950.4	12447.3	11898.4	11658.3	11658.3
42.5°	12990.4	13087.6	13236.3	13567.9	14019.6	14368.4	14111.1	13716.6	13162.0	12853.3	12899.0
45°	14231.1	14276.9	14374.1	14865.9	15077.4	15248.9	15008.7	14825.8	14454.2	14076.8	14013.9
47.5°	15391.9	15409.0	15694.9	15849.2	16015.1	15872.1	16026.5	15786.4	15369.0	15003.0	14928.8
50°	15906.4	15877.8	16283.8	16752.6	16878.4	16626.9	16495.4	16335.2	15700.6	15260.4	15065.9
52.5°	14408.4	14574.3	15329.0	16632.5	17616.0	17827.6	17061.4	16323.8	15140.3	14282.6	14151.2
54°	12693.1	12847.5	13470.7	15403.3	17450.2	18164.9	16929.9	15363.3	13693.8	12676.0	12544.4
55°	10995.0	10823.5	11955.6	13928.1	16672.6	17867.5	16409.6	14122.6	12212.8	11280.9	11097.9
57.5°	5952.1	5980.6	6935.5	8799.5	11715.4	13699.5	12098.5	9554.2	7215.6	6169.3	6077.8
60°	1886.8	1932.5	2349.9	3556.3	5597.5	6683.9	5729.1	3836.6	2653.0	2127.0	2041.2
62.5°	589.0	611.8	668.9	994.9	1532.3	2189.9	1715.3	1029.1	766.2	703.2	714.7
65°	360.2	360.2	365.9	388.8	457.4	531.8	514.6	451.7	434.5	423.1	417.4
67.5°	234.4	228.7	240.1	257.3	268.7	274.4	291.6	308.7	303.0	291.6	291.6
70°	143.0	137.3	148.7	171.6	177.3	188.7	205.8	228.7	222.9	211.5	217.2
72.5°	80.1	80.1	85.8	102.9	120.1	131.5	148.7	165.8	171.6	165.8	165.8
75°	28.6	34.3	45.8	62.9	74.3	91.5	108.7	125.8	143.0	131.5	125.8
77.5°	11.4	11.4	22.9	40.0	57.2	74.3	102.9	120.1	131.5	120.1	108.7
80°	5.7	5.7	17.2	34.3	51.5	68.6	85.8	102.9	108.7	97.2	85.8
82.5°	5.7	5.7	17.2	34.3	51.5	62.9	91.5	102.9	114.4	102.9	85.8
85°	0.0	5.7	17.2	34.3	45.8	51.5	51.5	34.3	28.6	17.2	17.2
87.5°	0.0	0.0	5.7	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)