

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: P651433

Luminaire Tested: **GALN-SA6D-840-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651433
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6D-840-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23153.6 lumens
Efficiency: N/A
Efficacy: 62.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

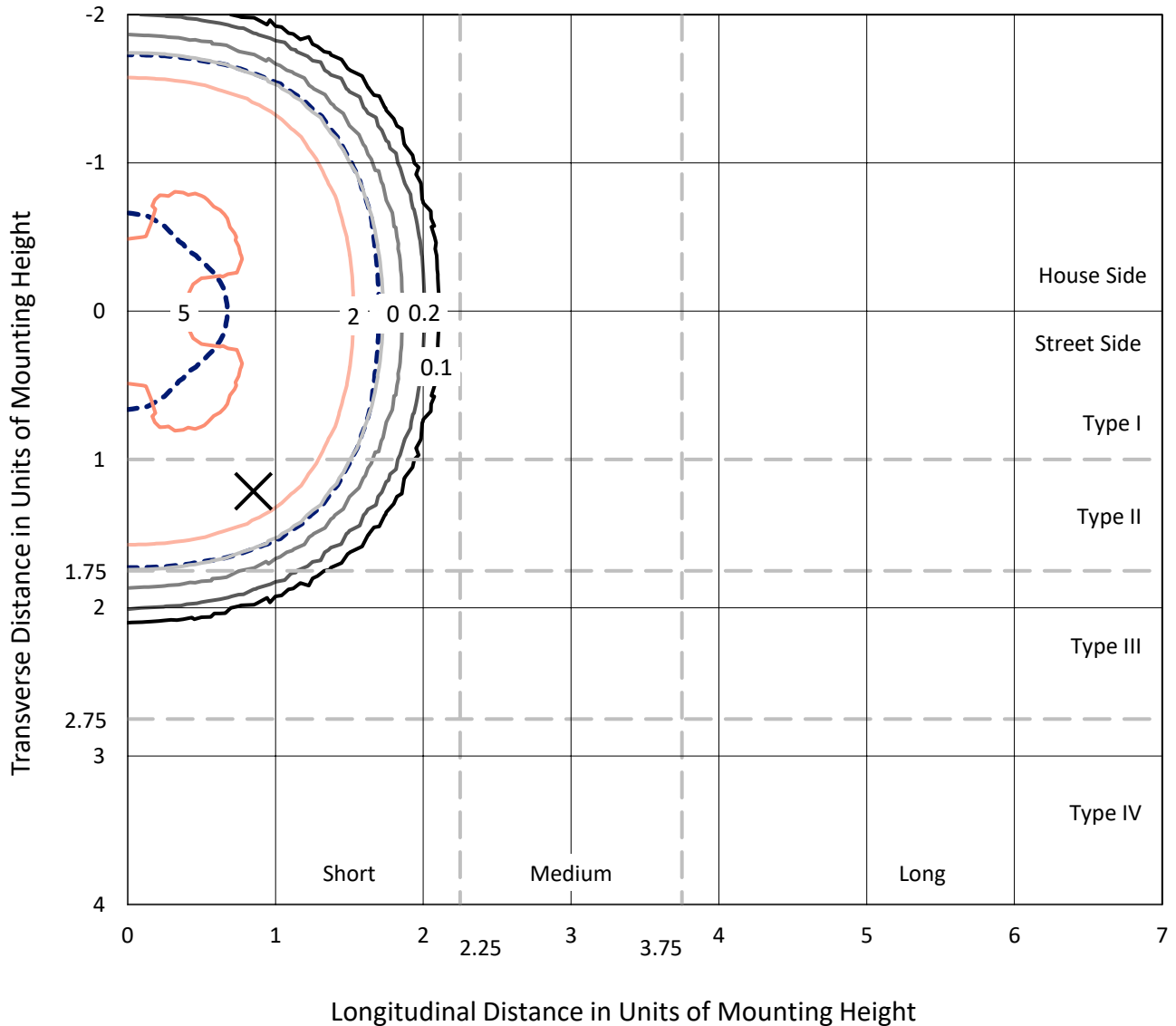
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

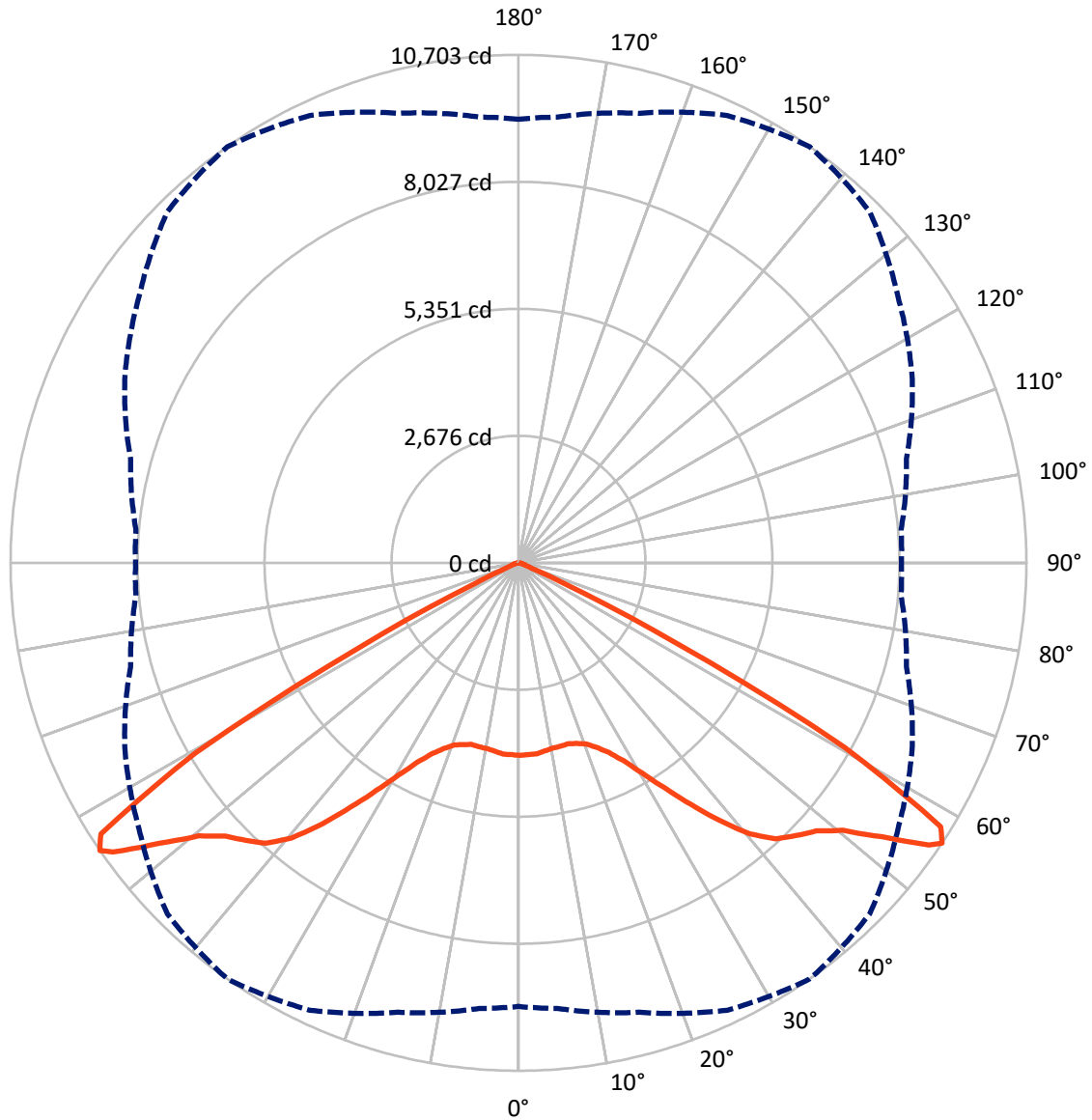
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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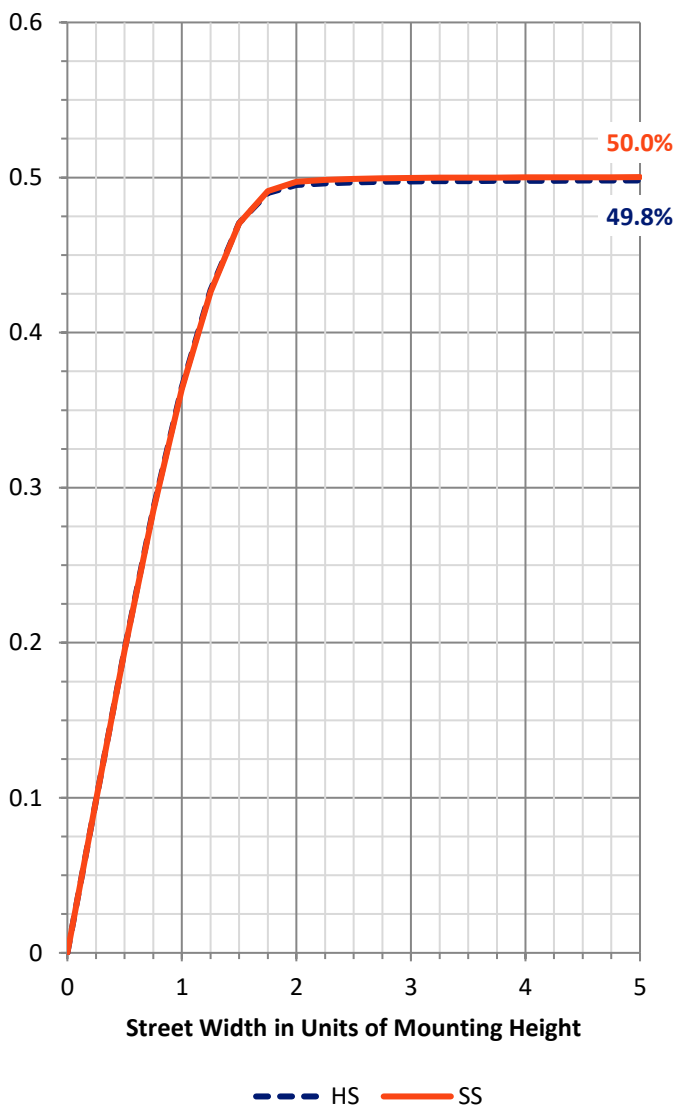
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11576.8	0.0	11576.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11576.8	0.0	11576.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	23153.6	0.0	23153.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	381.3	1.6
10°-20°	1113.2	4.8
20°-30°	2015.8	8.7
30°-40°	3738.1	16.1
40°-50°	6135.9	26.5
50°-60°	7904.8	34.1
60°-70°	1742.1	7.5
70°-80°	101.1	0.4
80°-90°	21.3	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°	23153.6	100.0
0°-180°	23153.6	100.0

Coefficient of Utilization



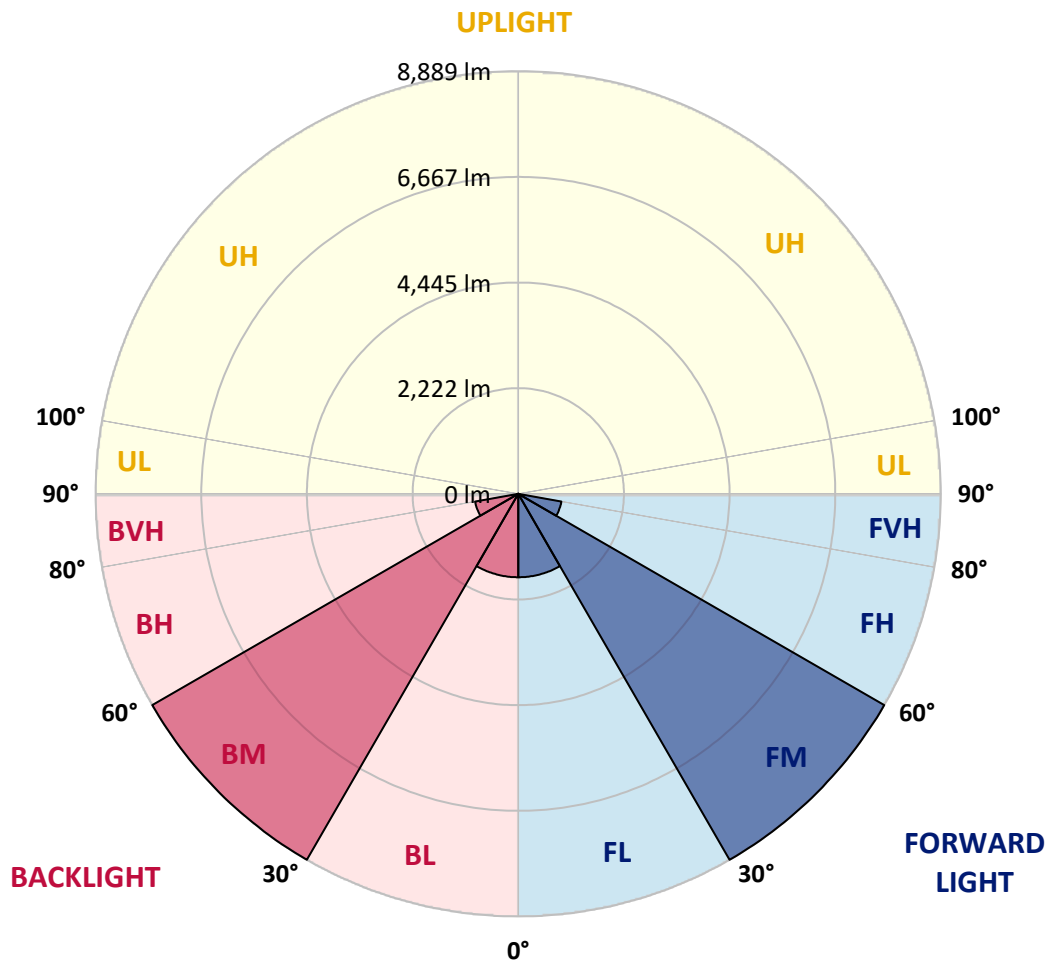
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1755.2	7.6			
FM (30°-60°)	8889.4	38.4			
FH (60°-80°)	921.6	4.0			G1/1800
FVH (80°-90°)	10.6	0.0			G1/100
BL (0°-30°)	1755.2	7.6	B3/2500		
BM (30°-60°)	8889.4	38.4	B5		
BH (60°-80°)	921.6	4.0	B2/1000		G1/1800
BVH (80°-90°)	10.6	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°	4057.0	4057.0	4057.0	4057.0	4057.0	4057.0	4057.0	4057.0	4057.0	4057.0	4057.0
2.5°	4065.4	4065.4	4069.6	4073.8	4044.5	4031.8	4036.0	4027.6	4023.4	4036.0	4036.0
5°	4052.8	4052.8	4040.2	4044.5	4044.5	4006.7	4006.7	4015.0	4015.0	3989.9	3981.5
7.5°	4019.2	4010.8	3994.1	4015.0	4002.5	4002.5	3973.1	3952.1	3943.7	3960.5	3943.7
10°	3947.9	3952.1	3968.9	3977.3	3968.9	3994.1	3943.7	3914.4	3885.0	3872.4	3872.4
12.5°	3914.4	3939.5	3914.4	3935.4	3964.7	3943.7	3914.4	3893.4	3851.4	3834.6	3834.6
15°	3910.1	3927.0	3935.4	3964.7	3952.1	3960.5	3901.7	3876.6	3813.7	3784.3	3771.7
17.5°	3905.9	3927.0	3939.5	3994.1	4002.5	4006.7	3960.5	3885.0	3830.4	3801.1	3771.7
20°	3952.1	3960.5	3985.7	4040.2	4073.8	4132.5	4048.6	3968.9	3851.4	3817.9	3805.3
22.5°	4010.8	4052.8	4078.0	4136.7	4224.8	4275.1	4166.1	4065.4	3943.7	3901.7	3851.4
25°	4199.6	4191.3	4233.2	4354.9	4426.2	4463.9	4375.9	4229.1	4069.6	4019.2	4027.6
27.5°	4434.6	4443.0	4480.8	4615.0	4719.9	4778.6	4673.8	4480.8	4325.5	4241.6	4233.2
30°	4740.9	4732.5	4774.4	4954.8	5143.6	5231.7	5047.1	4820.6	4669.6	4560.5	4585.6
32.5°	5063.9	5068.1	5185.6	5349.2	5655.5	5827.5	5529.6	5252.7	5026.2	4950.6	4912.9
35°	5542.2	5563.1	5655.5	5907.2	6247.0	6469.4	6142.2	5810.7	5550.6	5412.2	5428.9
37.5°	6133.7	6112.8	6268.0	6540.7	6897.3	7061.0	6784.0	6406.5	6142.2	6049.8	6108.6
40°	6763.1	6784.0	6863.7	7111.3	7509.9	7619.0	7207.8	7002.3	6771.5	6725.3	6796.6
42.5°	7392.4	7379.8	7438.6	7660.9	7950.4	7874.9	7631.6	7509.9	7346.2	7254.0	7350.4
45°	7853.9	7832.9	7942.0	8093.0	8197.9	8055.3	7946.2	7904.2	7820.3	7719.6	7807.8
47.5°	8302.8	8286.0	8390.9	8432.9	8441.3	8252.5	8273.4	8348.9	8139.2	7929.4	8030.1
50°	8684.6	8655.2	8785.3	8877.6	8856.6	8554.6	8630.1	8554.6	8227.3	7979.7	7942.0
52.5°	9322.3	9334.8	9473.4	9641.1	9590.8	9339.1	9230.0	8886.0	8466.4	8244.1	8114.0
55°	9725.1	9662.2	9901.3	10434.1	10492.8	10232.7	9750.2	9242.6	8613.3	8340.5	8307.0
56°	9347.5	9427.2	9804.8	10400.6	10702.6	10463.5	9762.8	9154.5	8462.2	8093.0	8067.9
57.5°	8386.7	8344.7	8856.6	9670.5	10492.8	10392.2	9418.8	8525.1	7719.6	7304.3	7254.0
60°	5219.2	5340.8	5789.7	6796.6	7895.8	7946.2	6981.2	6213.5	5273.7	4904.5	4992.6
62.5°	2043.2	1938.3	2219.4	2970.4	3725.5	3893.4	3528.4	2932.7	2408.2	2043.2	2018.0
65°	474.1	461.5	520.2	717.5	1002.7	1162.2	1103.4	793.0	583.1	553.8	511.8
67.5°	268.5	268.5	255.9	255.9	281.1	297.9	285.3	281.1	293.7	306.3	302.1
70°	188.8	184.6	176.2	180.4	172.0	172.0	184.6	205.5	222.4	222.4	226.6
72.5°	113.3	113.3	113.3	125.9	125.9	125.9	138.4	155.2	159.5	155.2	151.0
75°	50.4	50.4	58.7	71.3	79.7	83.9	96.5	104.9	113.3	104.9	96.5
77.5°	12.6	12.6	20.9	29.4	37.8	46.2	62.9	75.5	79.7	75.5	62.9
80°	4.2	4.2	8.4	20.9	37.8	46.2	62.9	67.1	71.3	62.9	50.4
82.5°	4.2	4.2	8.4	20.9	29.4	37.8	50.4	58.7	62.9	54.6	50.4
85°	0.0	4.2	8.4	16.8	25.1	33.6	33.6	25.1	20.9	12.6	16.8
87.5°	0.0	0.0	4.2	4.2	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)