

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: P652533

Luminaire Tested: **GALN-SA8B-840-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652533
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-SA8B-840-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 800mA 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: 23191.4 lumens
Efficiency: N/A
Efficacy: 71.4 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

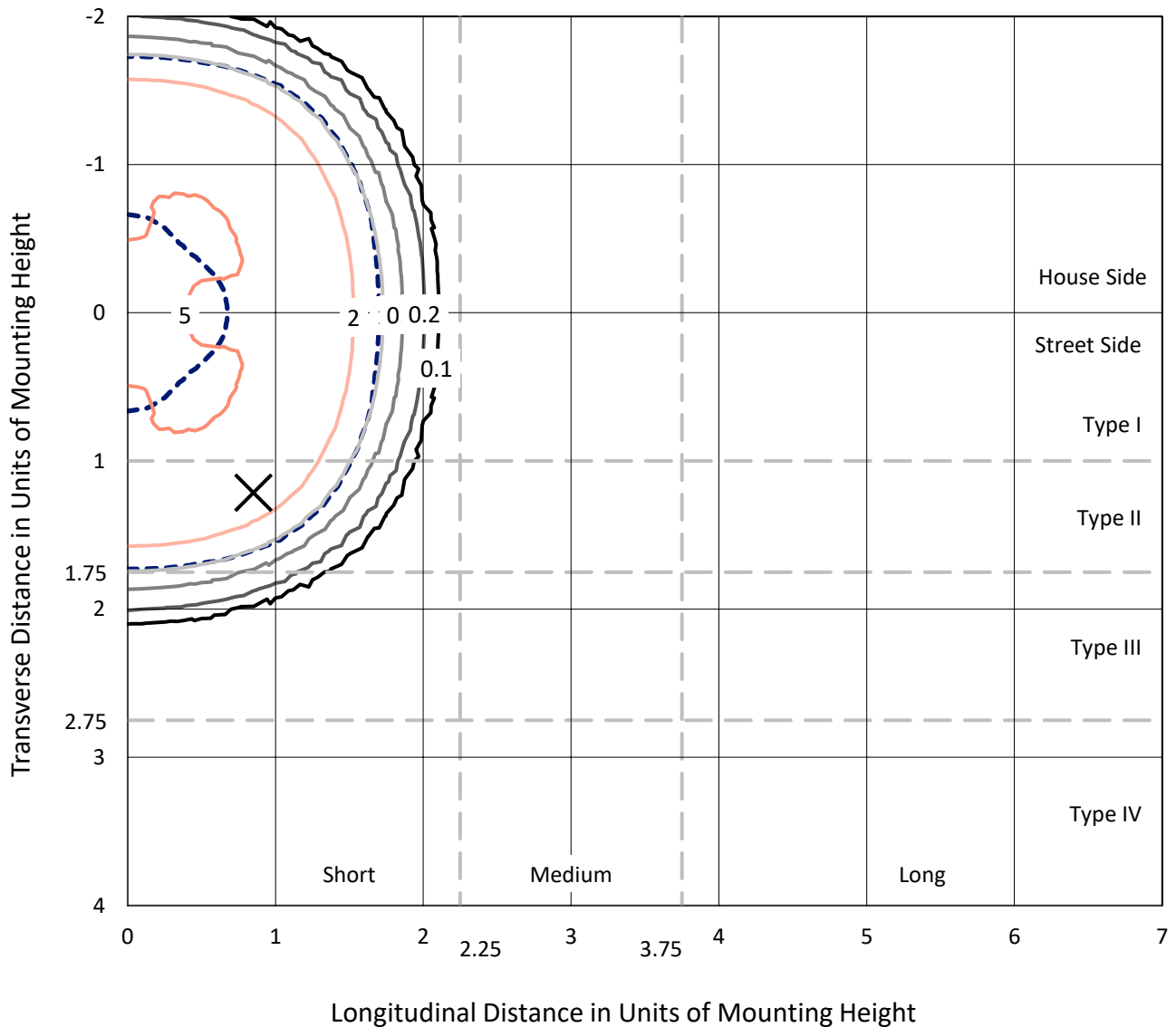
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

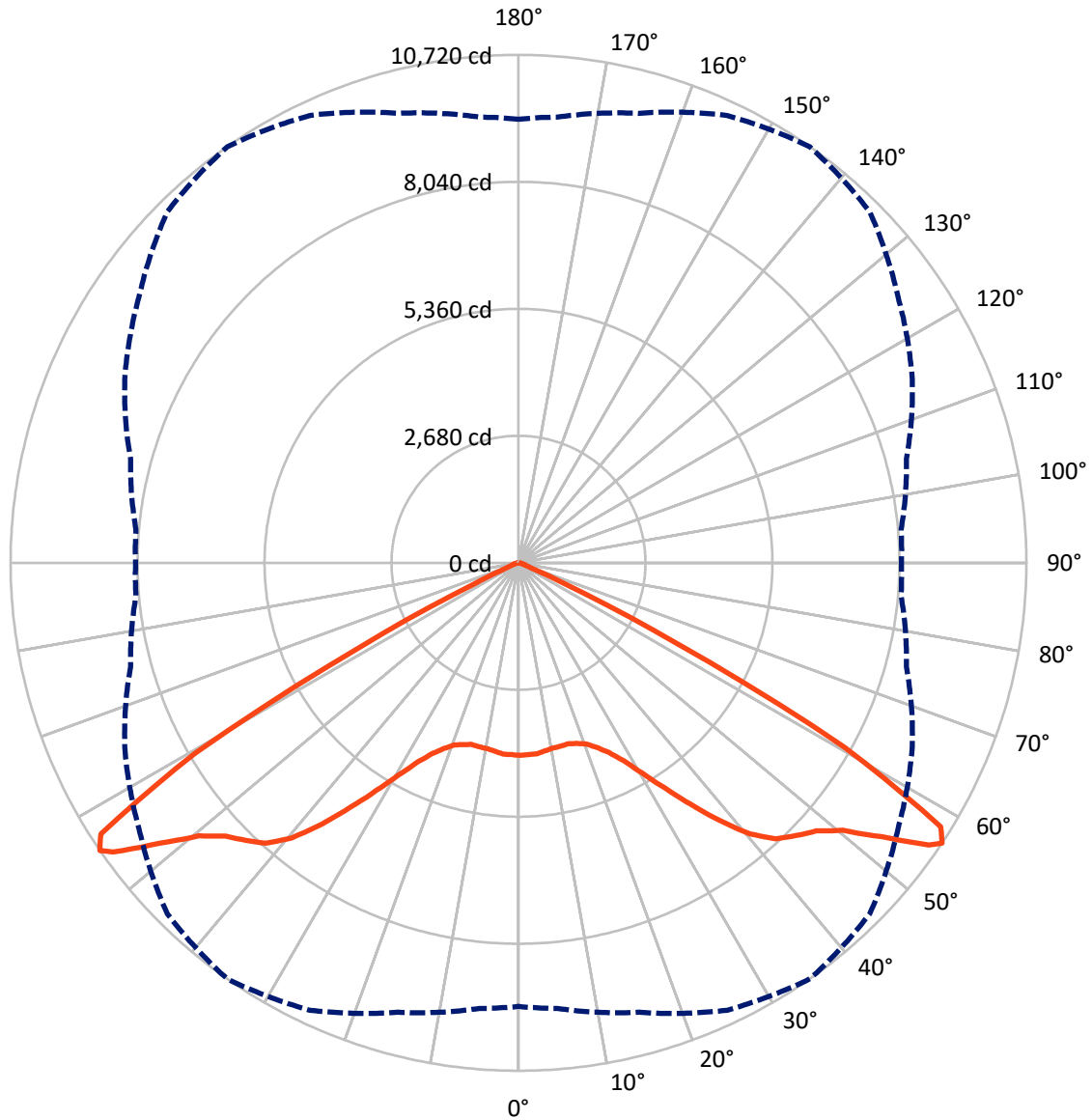
× Max cd
 - - - 1/2 Max cd



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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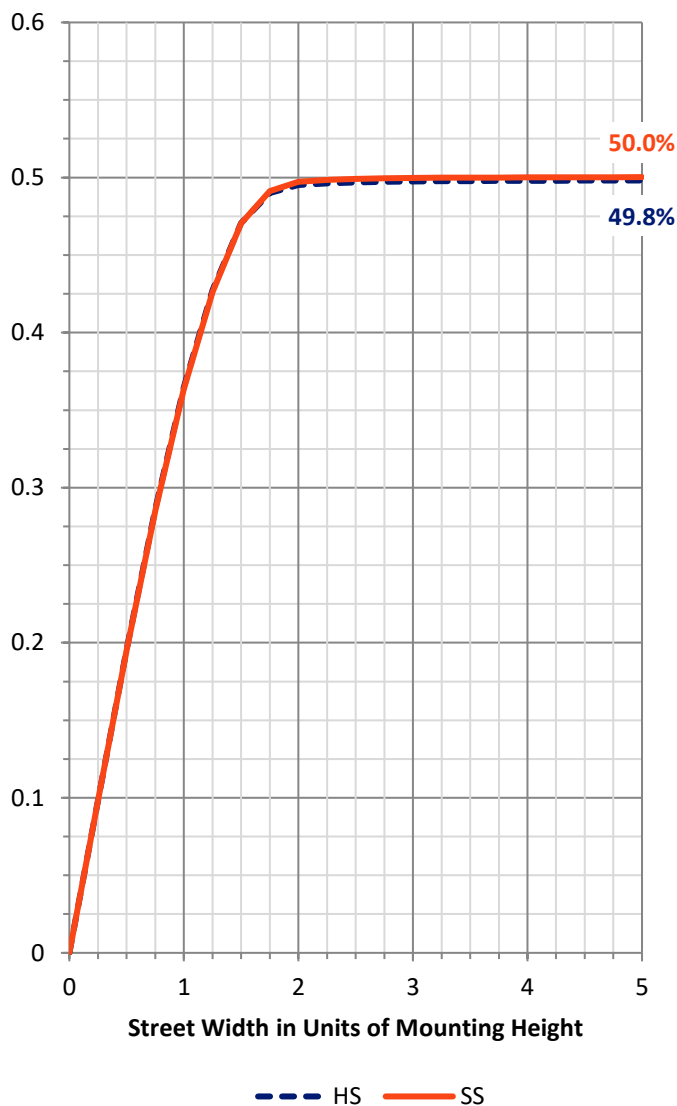
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11595.7	0.0	11595.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11595.7	0.0	11595.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	23191.4	0.0	23191.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	381.9	1.6
10°-20°	1115.0	4.8
20°-30°	2019.1	8.7
30°-40°	3744.2	16.1
40°-50°	6145.9	26.5
50°-60°	7917.7	34.1
60°-70°	1745.0	7.5
70°-80°	101.2	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°	23191.4	100.0
0°-180°	23191.4	100.0

Coefficient of Utilization



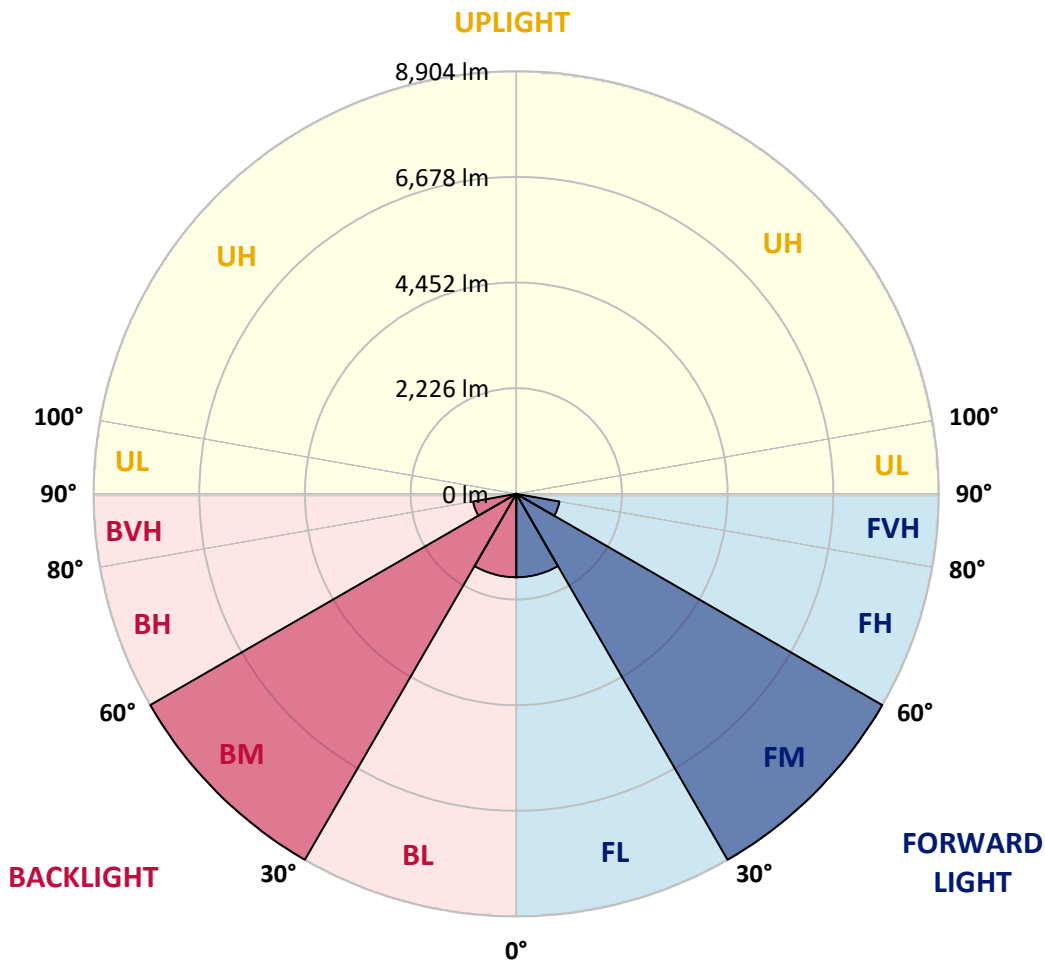
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1758.0	7.6			
FM (30°-60°)	8903.9	38.4			
FH (60°-80°)	923.1	4.0			G1/1800
FVH (80°-90°)	10.7	0.0			G1/100
BL (0°-30°)	1758.0	7.6	B3/2500		
BM (30°-60°)	8903.9	38.4	B5		
BH (60°-80°)	923.1	4.0	B2/1000		G1/1800
BVH (80°-90°)	10.7	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°	4063.6	4063.6	4063.6	4063.6	4063.6	4063.6	4063.6	4063.6	4063.6	4063.6	4063.6
2.5°	4072.0	4072.0	4076.2	4080.4	4051.0	4038.4	4042.6	4034.2	4030.0	4042.6	4042.6
5°	4059.4	4059.4	4046.8	4051.0	4051.0	4013.2	4013.2	4021.6	4021.6	3996.4	3988.0
7.5°	4025.8	4017.4	4000.6	4021.6	4009.0	4009.0	3979.6	3958.6	3950.2	3967.0	3950.2
10°	3954.4	3958.6	3975.4	3983.8	3975.4	4000.6	3950.2	3920.7	3891.3	3878.7	3878.7
12.5°	3920.7	3946.0	3920.7	3941.8	3971.2	3950.2	3920.7	3899.7	3857.8	3840.9	3840.9
15°	3916.5	3933.4	3941.8	3971.2	3958.6	3967.0	3908.1	3882.9	3819.9	3790.5	3777.9
17.5°	3912.3	3933.4	3946.0	4000.6	4009.0	4013.2	3967.0	3891.3	3836.7	3807.3	3777.9
20°	3958.6	3967.0	3992.2	4046.8	4080.4	4139.3	4055.2	3975.4	3857.8	3824.1	3811.5
22.5°	4017.4	4059.4	4084.7	4143.4	4231.7	4282.1	4172.9	4072.0	3950.2	3908.1	3857.8
25°	4206.5	4198.1	4240.2	4362.0	4433.4	4471.3	4383.0	4235.9	4076.2	4025.8	4034.2
27.5°	4441.8	4450.2	4488.1	4622.6	4727.6	4786.5	4681.3	4488.1	4332.6	4248.6	4240.2
30°	4748.6	4740.2	4782.3	4962.9	5152.1	5240.3	5055.4	4828.4	4677.1	4567.9	4593.1
32.5°	5072.2	5076.4	5194.0	5357.9	5664.7	5837.0	5538.7	5261.3	5034.4	4958.7	4920.9
35°	5551.3	5572.3	5664.7	5916.9	6257.2	6480.0	6152.2	5820.2	5559.7	5421.0	5437.8
37.5°	6143.8	6122.7	6278.2	6551.4	6908.6	7072.5	6795.1	6416.9	6152.2	6059.7	6118.5
40°	6774.1	6795.1	6875.0	7122.9	7522.2	7631.4	7219.6	7013.7	6782.5	6736.3	6807.7
42.5°	7404.5	7391.9	7450.7	7673.5	7963.3	7887.7	7644.0	7522.2	7358.2	7265.8	7362.5
45°	7866.7	7845.7	7954.9	8106.2	8211.4	8068.5	7959.1	7917.2	7833.1	7732.2	7820.5
47.5°	8316.4	8299.6	8404.6	8446.7	8455.1	8265.9	8287.0	8362.6	8152.5	7942.4	8043.2
50°	8698.8	8669.4	8799.6	8892.1	8871.1	8568.5	8644.1	8568.5	8240.7	7992.8	7954.9
52.5°	9337.5	9350.2	9488.8	9657.0	9606.5	9354.4	9245.1	8900.5	8480.2	8257.5	8127.3
55°	9741.0	9677.9	9917.5	10451.1	10510.0	10249.4	9766.2	9257.7	8627.3	8354.2	8320.6
56°	9362.8	9442.6	9820.8	10417.6	10720.1	10480.5	9778.8	9169.4	8476.1	8106.2	8081.1
57.5°	8400.4	8358.4	8871.1	9686.3	10510.0	10409.1	9434.2	8539.1	7732.2	7316.2	7265.8
60°	5227.7	5349.5	5799.2	6807.7	7908.8	7959.1	6992.7	6223.7	5282.3	4912.5	5000.8
62.5°	2046.5	1941.4	2223.0	2975.2	3731.7	3899.7	3534.1	2937.4	2412.2	2046.5	2021.3
65°	474.8	462.2	521.1	718.6	1004.3	1164.0	1105.2	794.2	584.2	554.7	512.7
67.5°	269.0	269.0	256.3	256.3	281.6	298.4	285.8	281.6	294.2	306.8	302.6
70°	189.1	184.9	176.5	180.7	172.3	172.3	184.9	205.9	222.7	222.7	226.9
72.5°	113.5	113.5	113.5	126.1	126.1	126.1	138.7	155.5	159.7	155.5	151.3
75°	50.5	50.5	58.9	71.4	79.8	84.0	96.6	105.0	113.5	105.0	96.6
77.5°	12.6	12.6	21.0	29.4	37.8	46.3	63.1	75.6	79.8	75.6	63.1
80°	4.2	4.2	8.4	21.0	37.8	46.3	63.1	67.2	71.4	63.1	50.5
82.5°	4.2	4.2	8.4	21.0	29.4	37.8	50.5	58.9	63.1	54.7	50.5
85°	0.0	4.2	8.4	16.8	25.2	33.6	33.6	25.2	21.0	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)