

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: P652540

Luminaire Tested: **GALN-SA8B-840-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652540
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-2)
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-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32783.9 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

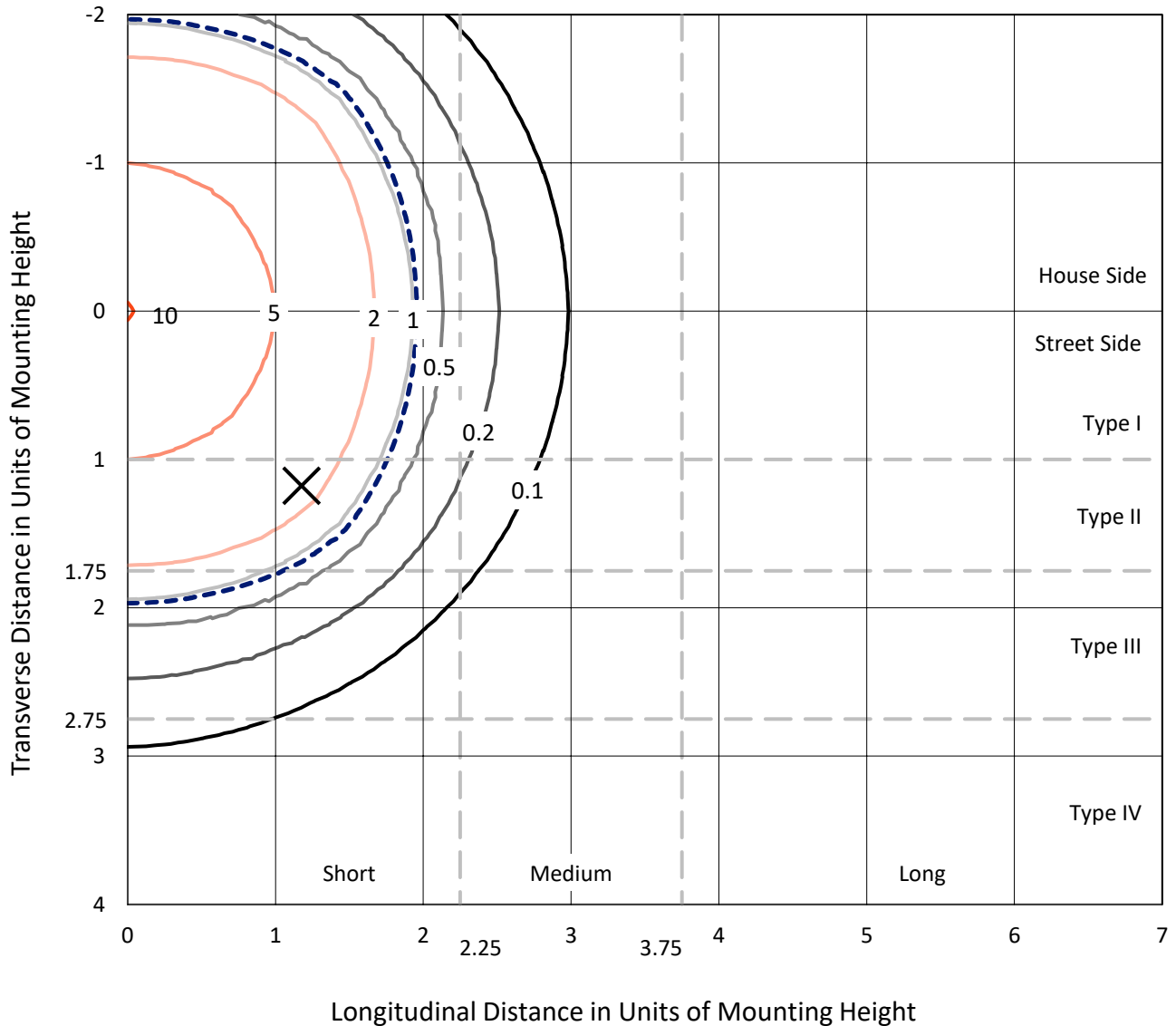
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

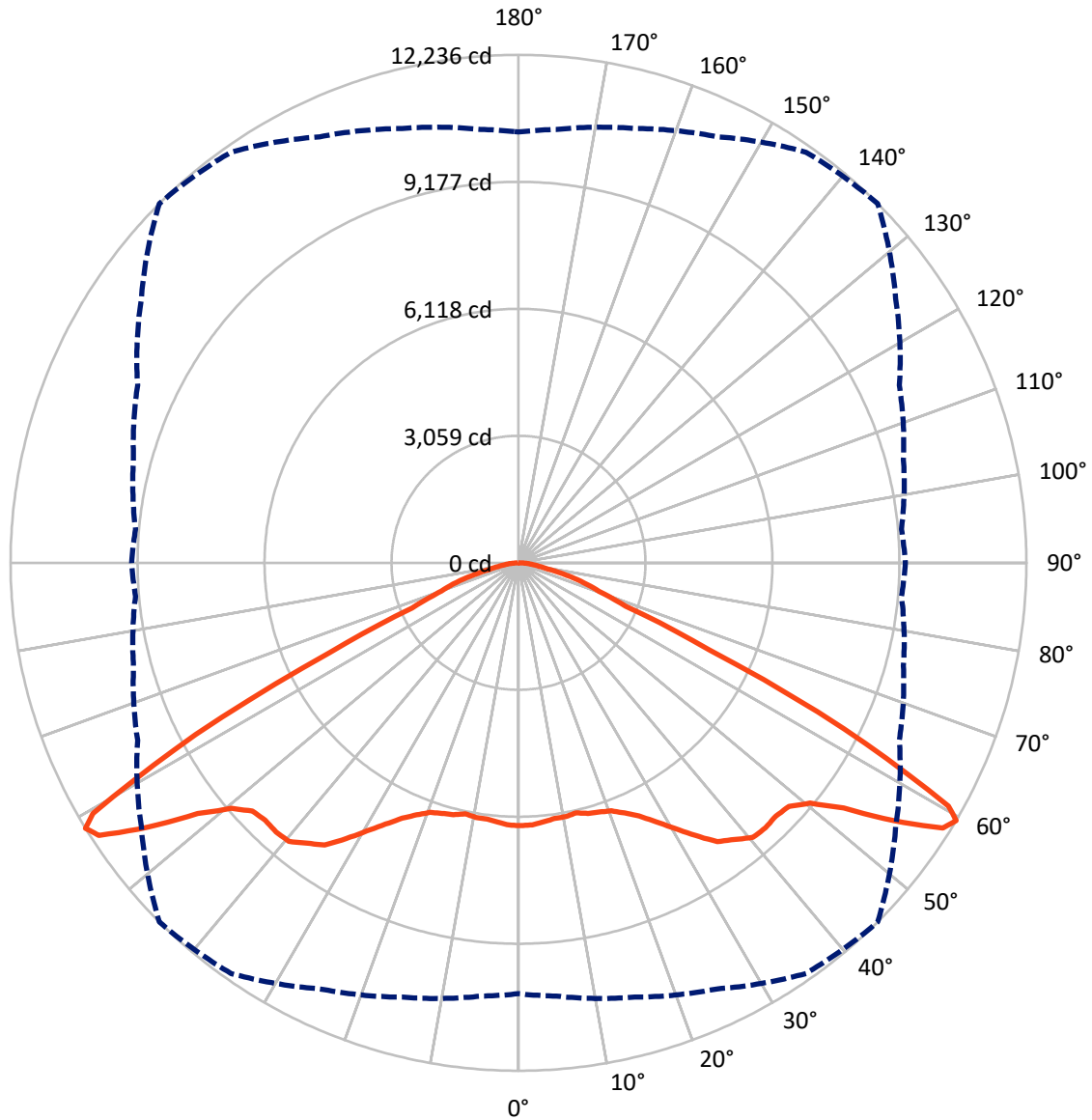
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 59-Deg Vertical

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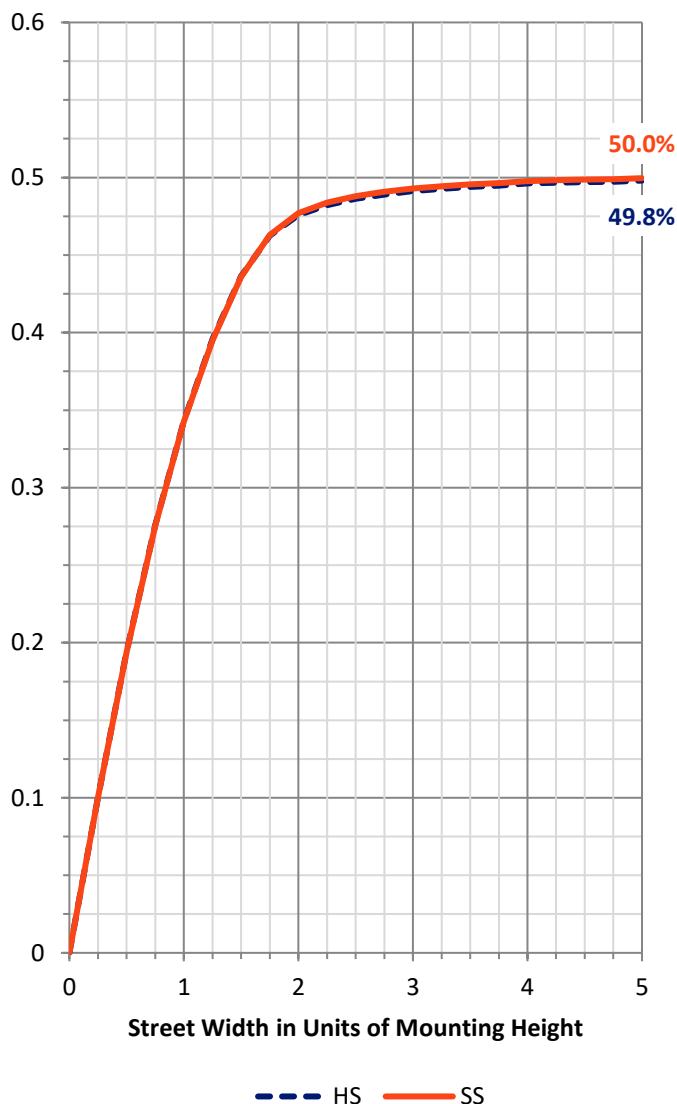
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16391.9	0.0	16391.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16391.9	0.0	16391.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	32783.9	0.0	32783.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	596.9	1.8
10°-20°	1775.2	5.4
20°-30°	3099.6	9.5
30°-40°	4950.6	15.1
40°-50°	6743.7	20.6
50°-60°	9119.2	27.8
60°-70°	5001.0	15.3
70°-80°	1279.4	3.9
80°-90°	218.2	0.7
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°	32783.9	100.0
0°-180°	32783.9	100.0

Coefficient of Utilization



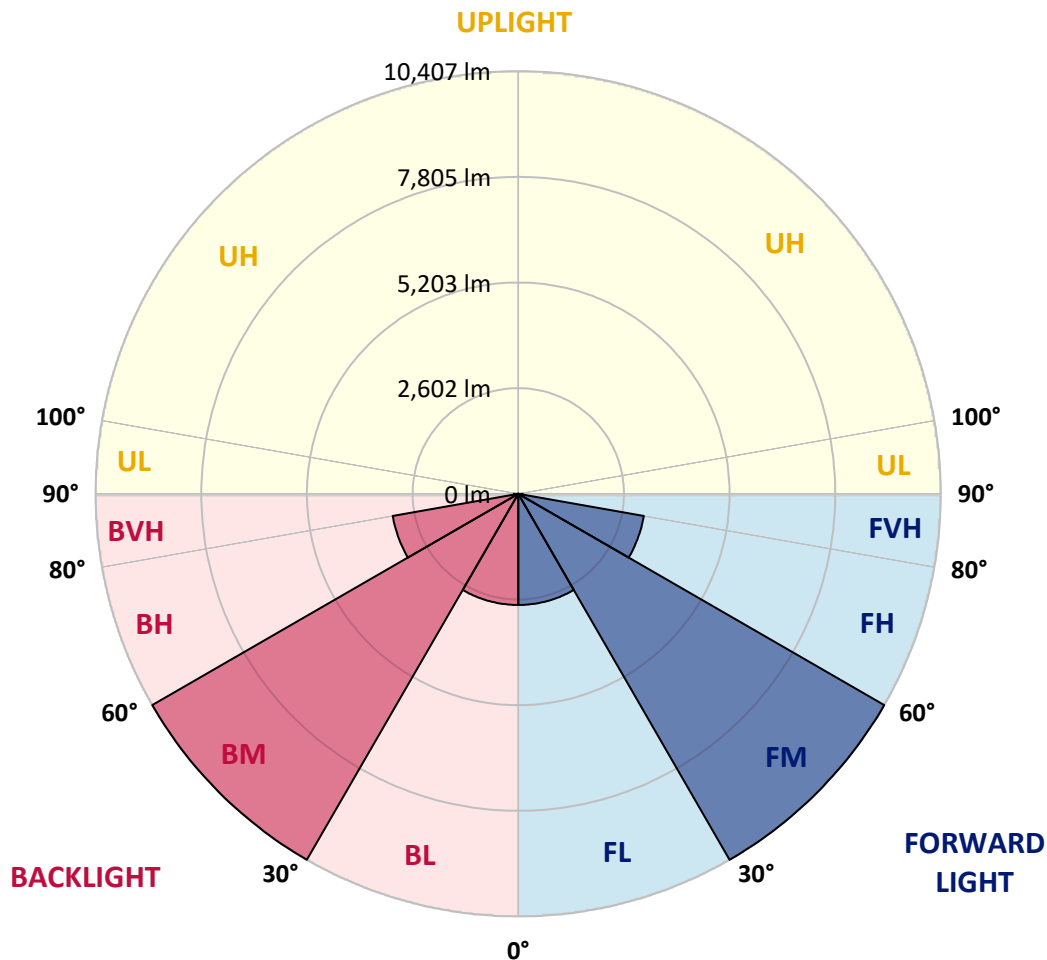
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2735.9	8.3			
FM (30°-60°)	10406.7	31.7			
FH (60°-80°)	3140.2	9.6			G2/5000
FVH (80°-90°)	109.1	0.3			G2/225
BL (0°-30°)	2735.9	8.3	B4/5000		
BM (30°-60°)	10406.7	31.7	B5		
BH (60°-80°)	3140.2	9.6	B4/5000		G2/5000
BVH (80°-90°)	109.1	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6332.3	6332.3	6332.3	6332.3	6332.3	6332.3	6332.3	6332.3	6332.3	6332.3	6332.3
2.5°	6294.5	6340.7	6307.1	6336.5	6332.3	6319.7	6298.7	6286.1	6269.2	6294.5	6252.4
5°	6269.2	6307.1	6344.8	6294.5	6294.5	6269.2	6256.6	6231.4	6231.4	6227.3	6223.1
7.5°	6311.3	6273.4	6256.6	6265.0	6273.4	6218.9	6256.6	6206.2	6164.2	6193.6	6227.3
10°	6273.4	6290.3	6227.3	6256.6	6210.4	6218.9	6193.6	6227.3	6181.0	6181.0	6181.0
12.5°	6311.3	6265.0	6286.1	6265.0	6252.4	6181.0	6214.7	6176.8	6172.6	6214.7	6176.8
15°	6386.9	6311.3	6294.5	6252.4	6265.0	6265.0	6231.4	6235.6	6189.4	6214.7	6223.1
17.5°	6361.7	6319.7	6307.1	6256.6	6298.7	6311.3	6248.2	6206.2	6235.6	6231.4	6227.3
20°	6382.7	6399.5	6386.9	6395.3	6412.1	6378.5	6319.7	6260.8	6223.1	6277.6	6273.4
22.5°	6517.2	6500.3	6491.9	6483.5	6513.0	6546.6	6466.7	6374.3	6374.3	6412.1	6428.9
25°	6626.4	6622.2	6618.0	6655.8	6756.7	6756.7	6655.8	6538.2	6508.8	6534.0	6513.0
27.5°	6786.1	6832.3	6815.5	6882.7	7029.8	7063.4	6928.9	6790.3	6710.4	6681.1	6718.8
30°	7151.6	7097.0	7109.6	7181.0	7311.3	7420.6	7214.7	7067.6	6958.3	6954.1	6971.0
32.5°	7395.3	7437.4	7475.2	7542.4	7748.3	7832.3	7584.5	7345.0	7277.7	7239.9	7252.5
35°	7882.8	7844.9	7836.5	7903.8	8109.7	8248.4	7937.4	7727.3	7639.1	7723.1	7723.1
37.5°	8345.0	8239.9	8160.1	8248.4	8437.4	8454.2	8189.5	8076.0	8029.9	8126.5	8122.3
40°	8563.5	8555.1	8370.2	8420.6	8672.7	8698.0	8450.0	8315.6	8307.1	8433.2	8559.3
42.5°	8790.4	8710.6	8525.6	8559.3	8714.8	8723.2	8487.9	8450.0	8542.5	8664.3	8672.7
45°	8828.2	8760.9	8643.3	8559.3	8672.7	8698.0	8559.3	8584.5	8592.9	8740.0	8740.0
47.5°	8903.8	8895.4	8828.2	8765.2	8786.2	8765.2	8676.9	8714.8	8840.8	8912.2	8878.6
50°	9113.9	9025.7	9092.9	9038.3	9042.5	9101.3	9021.5	9059.3	9034.1	8971.0	8929.1
52.5°	9576.1	9534.2	9593.0	9630.8	9672.8	9807.2	9714.8	9513.1	9324.0	9156.0	9151.8
55°	10252.6	10282.1	10395.5	10588.8	10752.7	10967.0	10521.6	10038.3	9735.8	9471.1	9487.9
57.5°	10891.4	10870.3	11025.8	11467.0	11946.0	12055.2	11181.3	10492.1	10000.5	9832.5	9761.1
59°	10378.7	10479.5	10832.5	11324.1	12076.3	12236.0	11093.0	10122.4	9601.4	9261.0	9319.8
60°	9571.9	9609.8	9924.9	10609.8	11626.7	11899.8	10500.6	9550.9	8857.6	8660.1	8748.3
62.5°	6765.1	6735.7	6962.6	7521.4	8433.2	8803.0	7807.2	7139.1	6702.0	6483.5	6534.0
65°	3596.9	3731.3	3823.8	4172.5	4655.7	5046.5	4634.7	4344.8	4101.1	3920.4	3916.2
67.5°	2428.7	2411.9	2432.9	2512.7	2676.7	2785.9	2777.5	2630.4	2609.4	2575.7	2613.6
70°	2046.3	2037.9	2000.1	2000.1	2033.7	2058.9	2088.4	2105.2	2138.7	2180.8	2176.6
72.5°	1659.7	1638.8	1613.5	1600.9	1643.0	1655.6	1693.4	1710.2	1739.6	1735.4	1773.2
75°	1096.7	1096.7	1126.1	1159.7	1172.4	1197.6	1201.7	1252.2	1252.2	1260.6	1226.9
77.5°	613.5	596.7	617.7	651.3	680.7	727.0	773.1	811.0	832.0	823.6	823.6
80°	357.2	357.2	378.2	416.0	453.8	495.9	529.4	558.8	579.9	571.5	554.6
82.5°	222.7	222.7	243.7	281.6	310.9	336.1	382.4	420.2	445.4	437.0	416.0
85°	113.5	113.5	138.7	163.9	201.7	218.5	214.3	197.5	193.3	172.2	172.2
87.5°	29.4	29.4	42.0	46.3	37.8	42.0	42.0	42.0	42.0	42.0	46.3
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)