

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: P533138

Luminaire Tested: **GALN-SA8C-740-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533138
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-740-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51134 lumens
Efficiency: N/A
Efficacy: 119.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

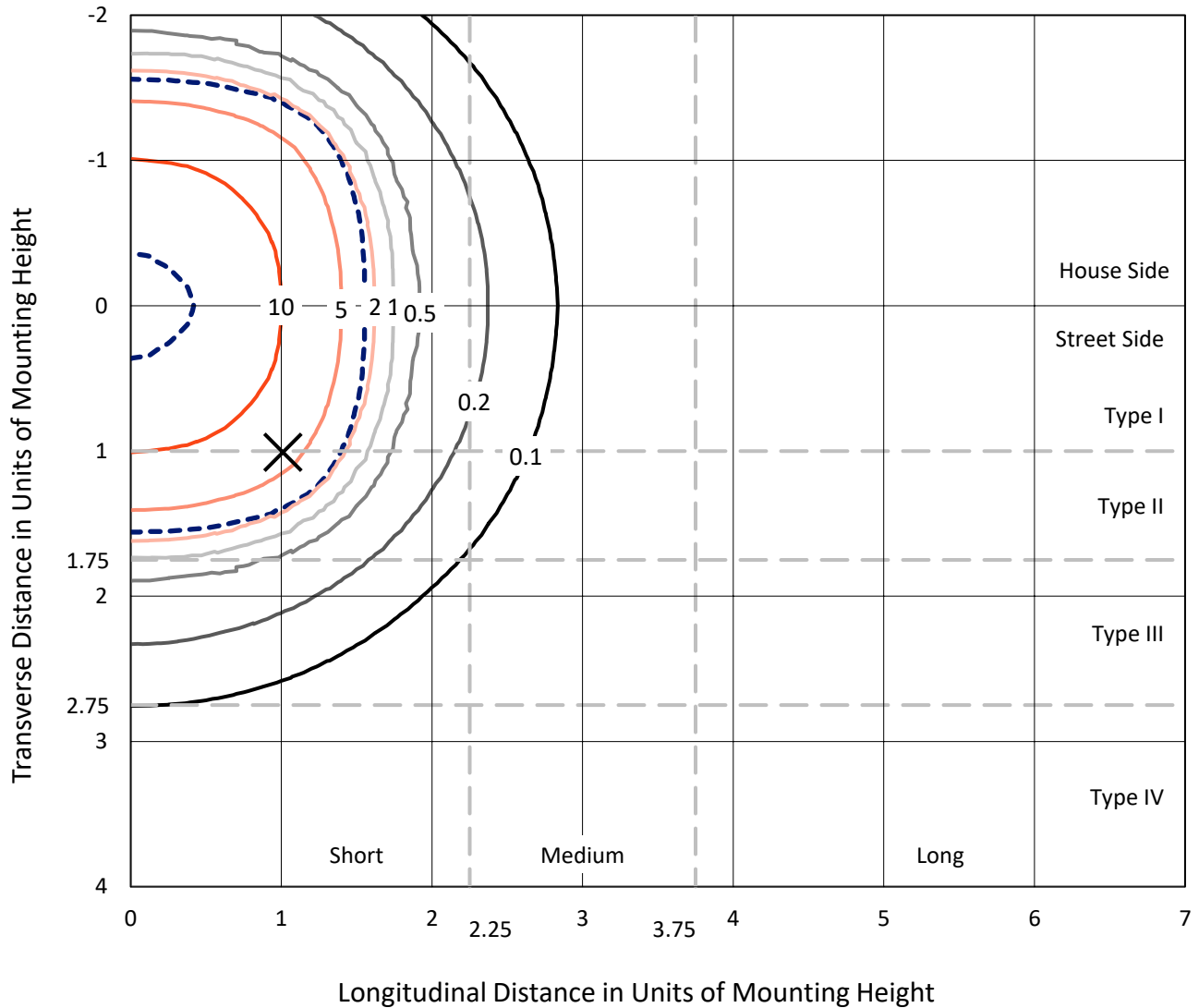
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

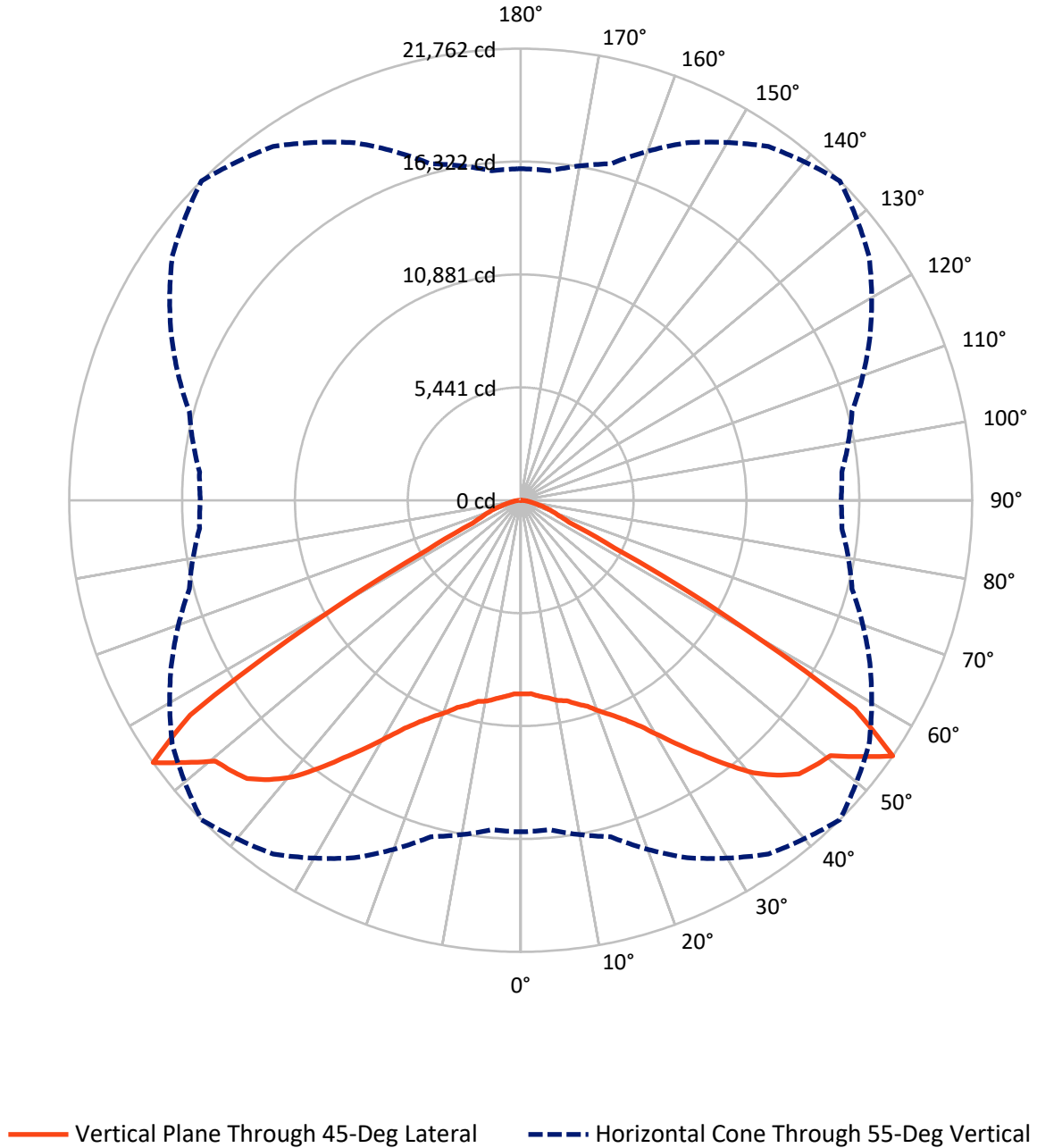
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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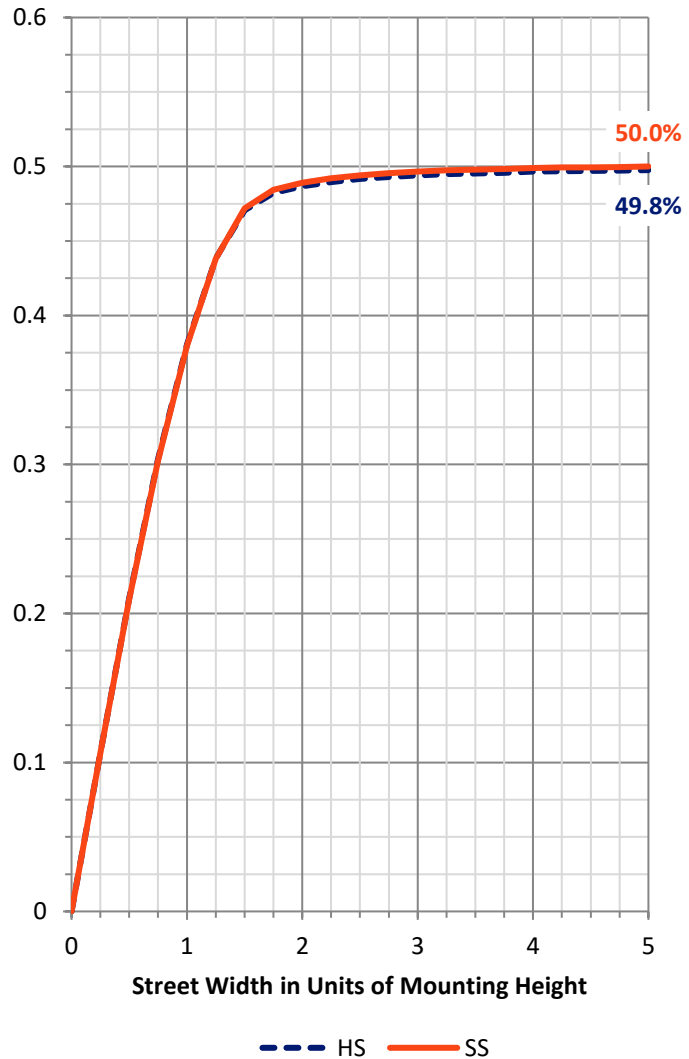
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	25567.0	0.0	25567.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	25567.0	0.0	25567.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	51134.0	0.0	51134.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	912.1	1.8
10°-20°	2889.9	5.7
20°-30°	5388.7	10.5
30°-40°	9022.5	17.6
40°-50°	14039.7	27.5
50°-60°	14577.6	28.5
60°-70°	3091.4	6.0
70°-80°	1018.1	2.0
80°-90°	193.9	0.4
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°	51134.0	100.0
0°-180°	51134.0	100.0

Coefficient of Utilization



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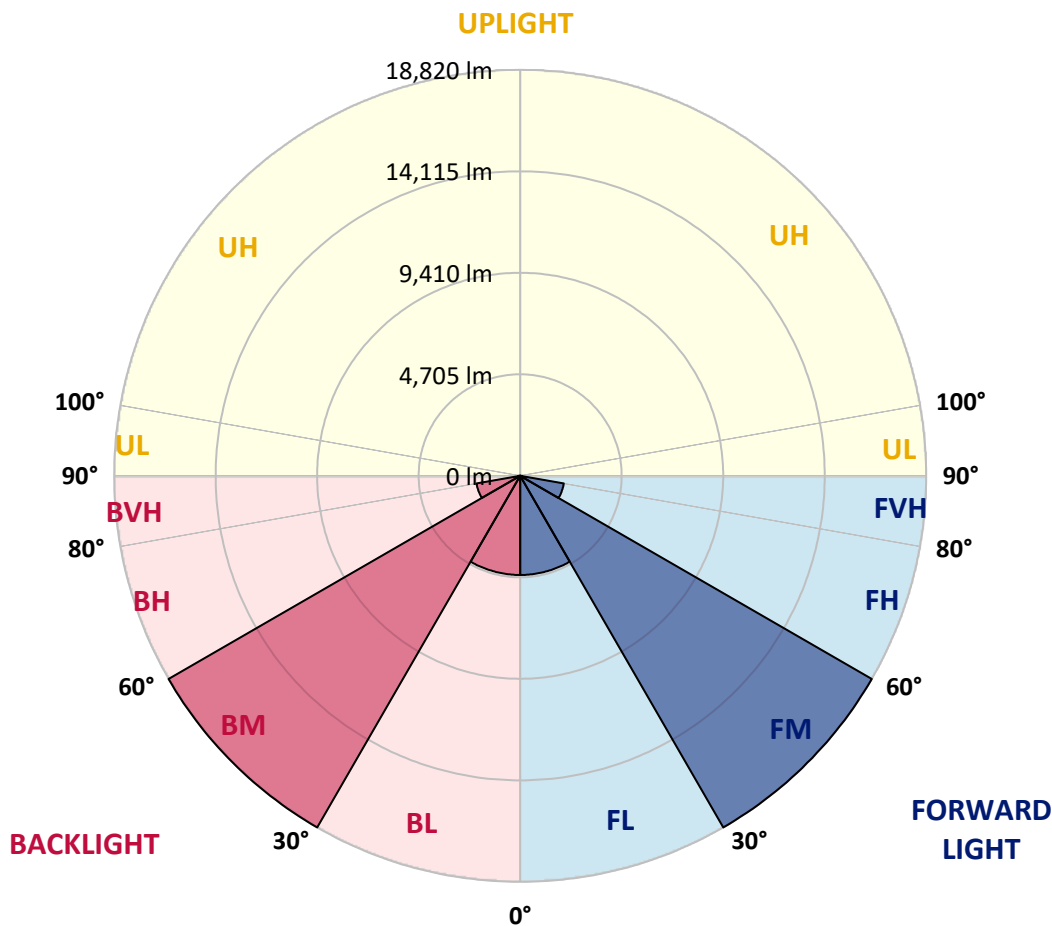
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4595.4	9.0			
FM (30°-60°)	18819.9	36.8			
FH (60°-80°)	2054.8	4.0			G2/5000
FVH (80°-90°)	96.9	0.2			G1/100
BL (0°-30°)	4595.4	9.0	B4/5000		
BM (30°-60°)	18819.9	36.8	B5		
BH (60°-80°)	2054.8	4.0	B3/2500		G2/5000
BVH (80°-90°)	96.9	0.2			G1/100
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°	9336.3	9336.3	9336.3	9336.3	9336.3	9336.3	9336.3	9336.3	9336.3	9336.3	9336.3
2.5°	9447.5	9404.3	9330.1	9385.7	9429.0	9336.3	9373.4	9391.9	9379.6	9330.1	9348.7
5°	9583.5	9558.7	9497.0	9540.2	9484.6	9484.6	9447.5	9398.1	9472.2	9459.9	9490.8
7.5°	9583.5	9552.6	9676.1	9595.8	9620.5	9620.5	9558.7	9509.3	9546.4	9490.8	9459.9
10°	9775.0	9818.3	9762.6	9781.2	9768.8	9812.1	9719.4	9688.5	9657.6	9639.1	9602.0
12.5°	10003.6	9972.7	9991.3	9978.9	10022.2	9910.9	9855.3	9787.4	9843.0	9762.6	9818.3
15°	10189.0	10170.5	10189.0	10238.4	10195.2	10189.0	10090.1	10022.2	9935.7	9954.2	9867.7
17.5°	10442.3	10423.8	10430.0	10473.2	10467.0	10436.1	10362.0	10232.2	10201.4	10151.9	10096.3
20°	10819.2	10788.3	10776.0	10794.5	10825.4	10850.1	10701.8	10652.4	10547.4	10467.0	10374.4
22.5°	11140.5	11128.2	11177.6	11097.3	11165.3	11239.4	11097.3	11072.6	10813.1	10769.8	10670.9
25°	11585.4	11566.9	11536.0	11653.4	11733.7	11727.5	11591.6	11455.7	11257.9	11208.5	11208.5
27.5°	12055.0	11950.0	12110.6	12141.5	12283.6	12326.9	12209.5	12011.8	11826.4	11721.4	11746.1
30°	12642.0	12543.2	12580.2	12802.7	12988.0	13148.7	12852.1	12561.7	12302.2	12116.8	12085.9
32.5°	13229.0	13130.1	13241.4	13457.6	13828.4	14069.3	13778.9	13272.3	12969.5	12697.6	12753.2
35°	13704.8	13778.9	13958.1	14285.6	14668.7	15058.0	14594.5	14205.3	13772.8	13470.0	13513.2
37.5°	14471.0	14699.6	14841.7	15218.6	15762.4	16164.0	15682.0	15175.4	14711.9	14316.5	14180.6
40°	15471.9	15626.4	15787.1	16231.9	16874.6	17276.2	16818.9	16157.8	15700.6	15292.8	15274.2
42.5°	16571.8	16720.1	16886.9	17430.7	17813.7	18116.5	17696.3	17344.1	16837.5	16516.2	16497.6
45°	17850.8	17745.8	17931.1	18289.5	18610.8	18808.5	18536.7	18363.7	17999.1	17702.5	17671.6
47.5°	18703.5	18610.8	18944.5	19265.8	19315.2	19099.0	19154.6	19315.2	18932.1	18444.0	18598.5
50°	19197.8	19197.8	19420.3	19716.8	19624.2	19346.1	19784.8	19797.2	19414.1	18981.6	18981.6
52.5°	18339.0	18530.5	19160.7	20130.8	20439.8	20520.1	20421.2	20001.1	19000.1	18116.5	18073.3
55°	15978.6	15935.4	16788.0	19012.5	20810.5	21762.1	20501.6	18567.6	16534.7	15539.9	15441.1
57.5°	10392.9	10442.3	11715.2	13982.8	17226.8	19000.1	16874.6	14155.8	11715.2	10343.5	10473.2
60°	4677.4	4844.3	5616.6	7309.6	10096.3	11542.2	10121.0	7680.4	5894.7	5116.1	5184.1
62.5°	2687.8	2718.7	2749.6	3262.5	4300.5	5085.2	4467.3	3447.8	3040.0	2904.1	2904.1
65°	2267.7	2249.1	2255.3	2298.5	2409.8	2570.4	2502.5	2409.8	2422.1	2409.8	2391.2
67.5°	1927.8	1952.5	1934.0	1964.9	1971.1	1995.8	2039.0	2076.1	2082.3	2094.6	2082.3
70°	1581.8	1588.0	1600.3	1625.0	1631.2	1649.8	1711.6	1742.4	1761.0	1761.0	1785.7
72.5°	1211.1	1204.9	1217.2	1242.0	1272.9	1279.0	1334.6	1377.9	1402.6	1371.7	1377.9
75°	797.1	803.3	821.8	840.3	883.6	926.8	945.4	988.6	994.8	1007.2	976.3
77.5°	475.8	488.1	506.7	543.7	580.8	617.9	661.1	692.0	704.4	692.0	655.0
80°	308.9	308.9	333.7	364.6	407.8	438.7	463.4	488.1	506.7	488.1	475.8
82.5°	191.5	191.5	222.4	259.5	290.4	308.9	346.0	376.9	395.4	383.1	364.6
85°	98.9	105.0	129.8	160.7	185.4	197.7	191.5	173.0	154.5	148.3	135.9
87.5°	30.9	30.9	37.1	37.1	30.9	30.9	37.1	30.9	37.1	37.1	37.1
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)