

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: P651055

Luminaire Tested: **GALN-SA8C-840-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651055
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-SA8C-840-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 1050mA 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: 40505.1 lumens
Efficiency: N/A
Efficacy: 94.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

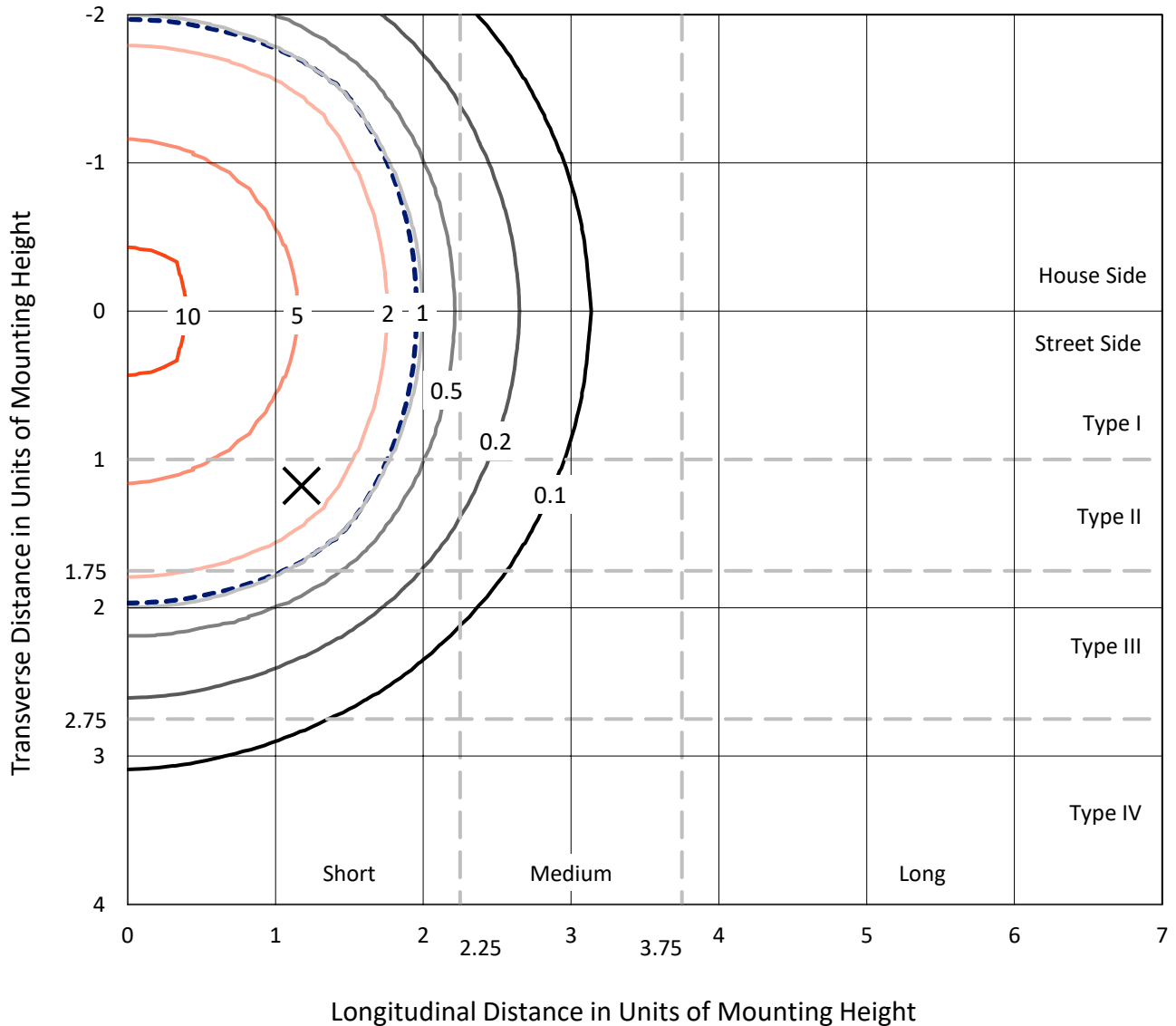
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

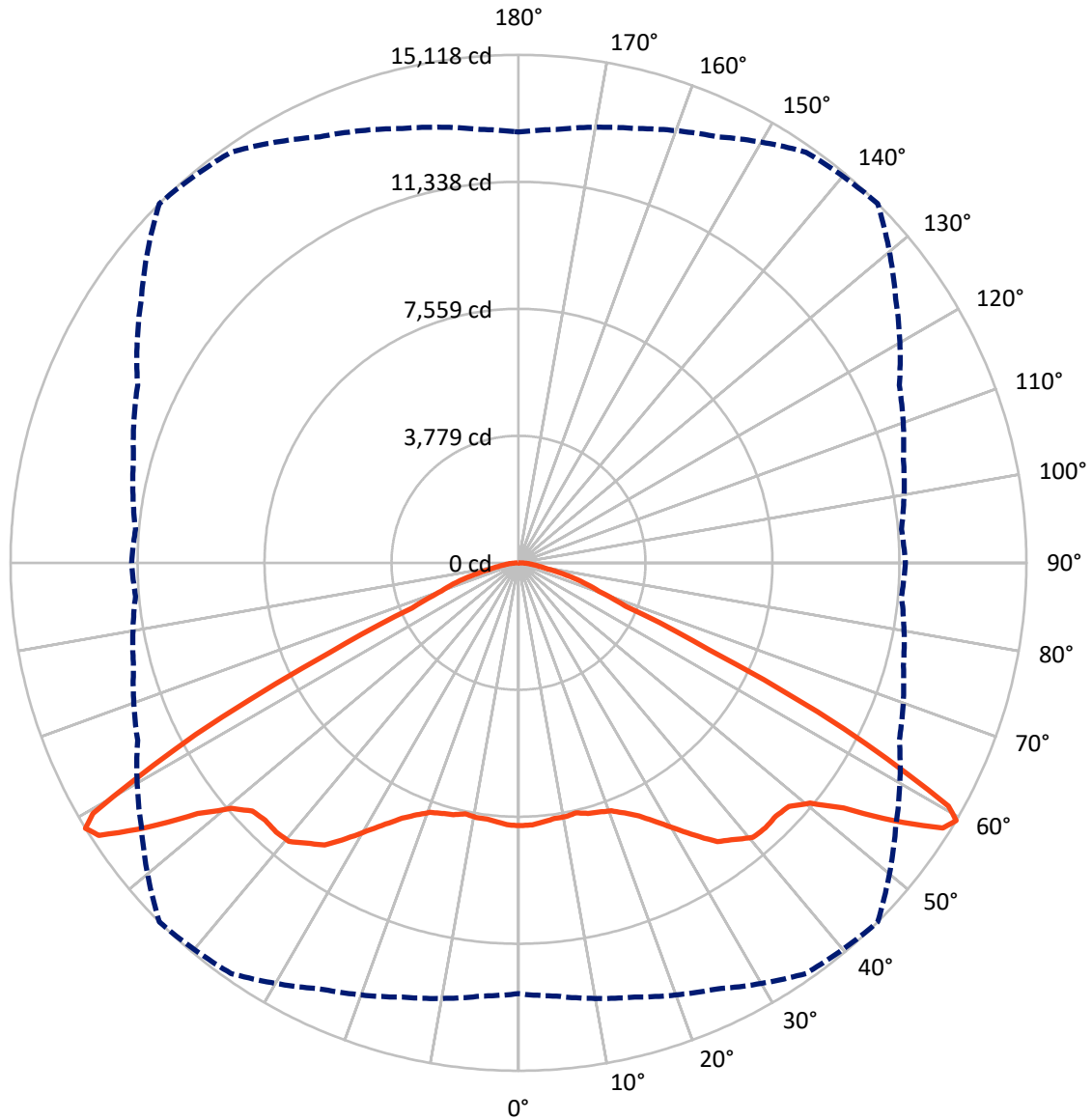
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.5 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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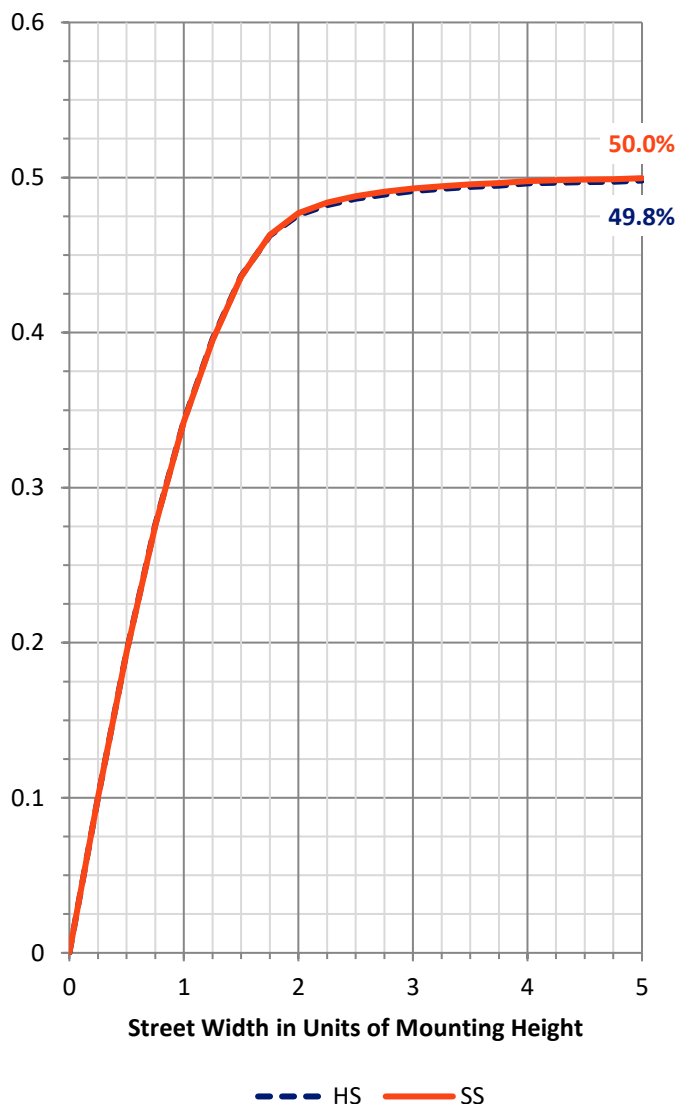
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20252.5	0.0	20252.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20252.5	0.0	20252.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	40505.1	0.0	40505.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	737.5	1.8
10°-20°	2193.3	5.4
20°-30°	3829.7	9.5
30°-40°	6116.5	15.1
40°-50°	8331.9	20.6
50°-60°	11267.0	27.8
60°-70°	6178.8	15.3
70°-80°	1580.7	3.9
80°-90°	269.6	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°	40505.1	100.0
0°-180°	40505.1	100.0

Coefficient of Utilization



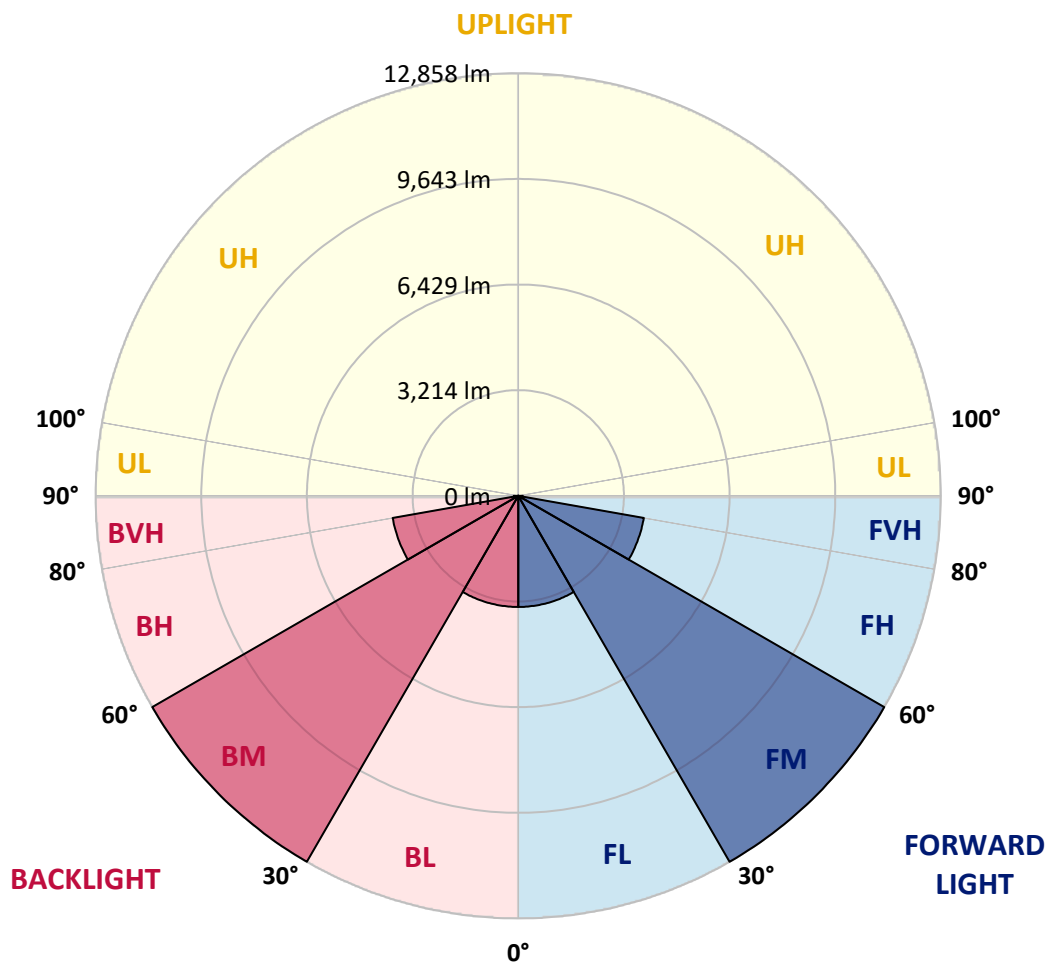
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3380.2	8.3			
FM (30°-60°)	12857.7	31.7			
FH (60°-80°)	3879.8	9.6			G2/5000
FVH (80°-90°)	134.8	0.3			G2/225
BL (0°-30°)	3380.2	8.3	B4/5000		
BM (30°-60°)	12857.7	31.7	B5		
BH (60°-80°)	3879.8	9.6	B4/5000		G2/5000
BVH (80°-90°)	134.8	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°	7823.7	7823.7	7823.7	7823.7	7823.7	7823.7	7823.7	7823.7	7823.7	7823.7	7823.7
2.5°	7776.9	7834.0	7792.5	7828.9	7823.7	7808.1	7782.1	7766.6	7745.8	7776.9	7725.0
5°	7745.8	7792.5	7839.2	7776.9	7776.9	7745.8	7730.2	7699.0	7699.0	7693.9	7688.7
7.5°	7797.7	7751.0	7730.2	7740.6	7751.0	7683.5	7730.2	7667.9	7616.0	7652.3	7693.9
10°	7751.0	7771.8	7693.9	7730.2	7673.1	7683.5	7652.3	7693.9	7636.8	7636.8	7636.8
12.5°	7797.7	7740.6	7766.6	7740.6	7725.0	7636.8	7678.2	7631.6	7626.4	7678.2	7631.6
15°	7891.1	7797.7	7776.9	7725.0	7740.6	7740.6	7699.0	7704.2	7647.1	7678.2	7688.7
17.5°	7860.0	7808.1	7792.5	7730.2	7782.1	7797.7	7719.8	7667.9	7704.2	7699.0	7693.9
20°	7886.0	7906.7	7891.1	7901.5	7922.3	7880.8	7808.1	7735.3	7688.7	7756.1	7751.0
22.5°	8052.1	8031.3	8021.0	8010.5	8046.9	8088.4	7989.8	7875.5	7875.5	7922.3	7943.1
25°	8187.1	8181.8	8176.7	8223.4	8348.0	8348.0	8223.4	8078.1	8041.7	8072.8	8046.9
27.5°	8384.3	8441.5	8420.7	8503.8	8685.4	8727.0	8560.9	8389.6	8290.9	8254.6	8301.3
30°	8836.0	8768.5	8784.1	8872.3	9033.3	9168.2	8913.8	8732.2	8597.2	8592.0	8612.8
32.5°	9137.1	9189.0	9235.8	9318.8	9573.2	9677.1	9370.8	9074.8	8991.7	8945.0	8960.6
35°	9739.3	9692.6	9682.2	9765.3	10019.7	10191.0	9806.8	9547.2	9438.2	9542.1	9542.1
37.5°	10310.4	10180.6	10082.0	10191.0	10424.6	10445.4	10118.3	9978.1	9921.0	10040.4	10035.2
40°	10580.4	10569.9	10341.5	10403.8	10715.3	10746.5	10440.2	10274.1	10263.6	10419.4	10575.2
42.5°	10860.7	10762.0	10533.6	10575.2	10767.2	10777.7	10486.9	10440.2	10554.4	10704.9	10715.3
45°	10907.4	10824.3	10679.0	10575.2	10715.3	10746.5	10575.2	10606.3	10616.7	10798.4	10798.4
47.5°	11000.9	10990.4	10907.4	10829.6	10855.5	10829.6	10720.6	10767.2	10923.0	11011.2	10969.8
50°	11260.4	11151.4	11234.5	11167.0	11172.2	11244.8	11146.2	11193.0	11161.8	11084.0	11032.0
52.5°	11831.5	11779.6	11852.3	11899.0	11950.9	12117.0	12002.8	11753.6	11520.0	11312.4	11307.2
55°	12667.3	12703.7	12843.8	13082.7	13285.1	13549.9	12999.6	12402.6	12028.8	11701.8	11722.4
57.5°	13456.4	13430.5	13622.6	14167.7	14759.6	14894.5	13814.7	12963.3	12355.9	12148.2	12059.9
59°	12823.1	12947.7	13383.8	13991.2	14920.4	15117.7	13705.7	12506.4	11862.6	11442.1	11514.8
60°	11826.3	11873.1	12262.4	13108.7	14365.0	14702.4	12973.7	11800.3	10943.8	10699.8	10808.8
62.5°	8358.4	8322.0	8602.3	9292.9	10419.4	10876.2	9645.8	8820.4	8280.5	8010.5	8072.8
65°	4443.9	4610.1	4724.3	5155.2	5752.2	6235.0	5726.3	5368.0	5066.9	4843.7	4838.5
67.5°	3000.7	2979.9	3005.9	3104.6	3307.0	3442.0	3431.6	3249.9	3224.0	3182.4	3229.1
70°	2528.3	2517.9	2471.2	2471.2	2512.7	2543.9	2580.2	2601.0	2642.5	2694.4	2689.2
72.5°	2050.7	2024.7	1993.6	1977.9	2029.9	2045.5	2092.2	2112.9	2149.3	2144.1	2190.8
75°	1355.0	1355.0	1391.4	1432.9	1448.5	1479.6	1484.8	1547.1	1547.1	1557.4	1515.9
77.5°	758.0	737.2	763.1	804.7	841.0	898.1	955.2	1002.0	1028.0	1017.5	1017.5
80°	441.3	441.3	467.3	513.9	560.7	612.6	654.1	690.5	716.4	706.0	685.2
82.5°	275.2	275.2	301.1	347.8	384.2	415.3	472.4	519.1	550.3	539.9	513.9
85°	140.2	140.2	171.3	202.4	249.2	270.0	264.7	244.0	238.8	212.9	212.9
87.5°	36.3	36.3	51.9	57.1	46.8	51.9	51.9	51.9	51.9	51.9	57.1
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)