

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: P650997

Luminaire Tested: **GALN-SA7C-840-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P650997
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-SA7C-840-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 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: 37093.1 lumens
Efficiency: N/A
Efficacy: 98.4 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

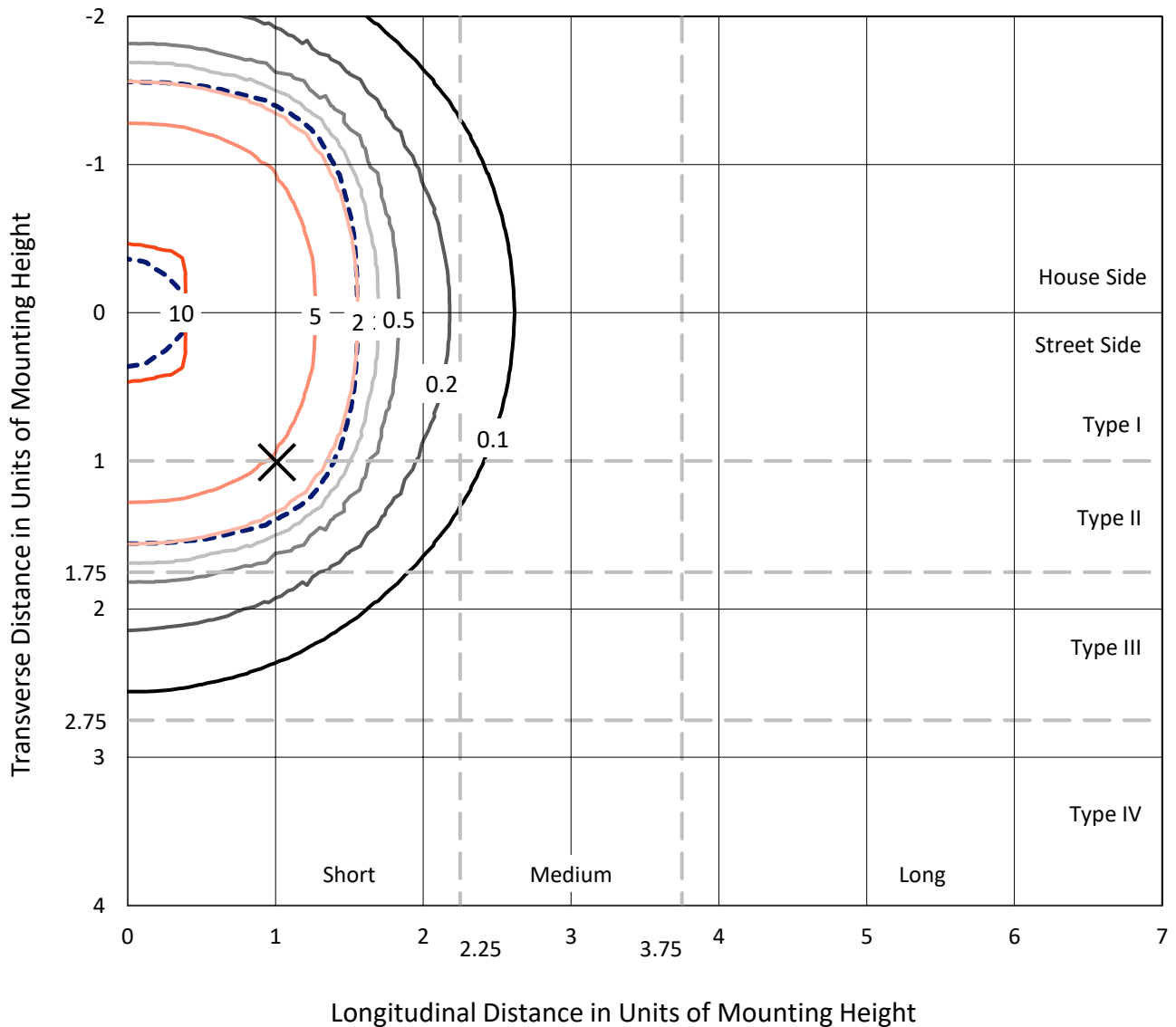
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

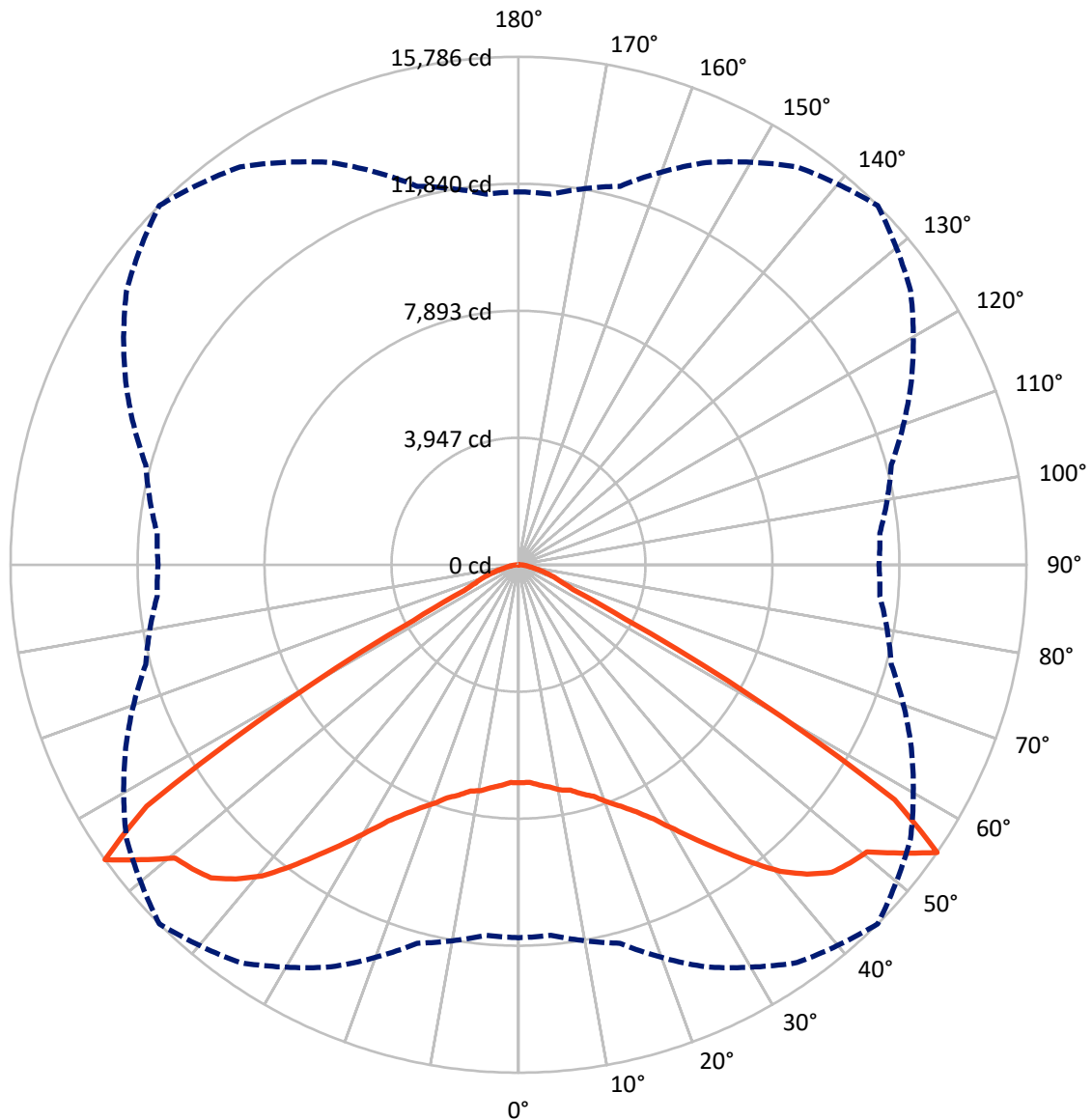
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc
 Type V - Short - N/A

REPORT NUMBER: P650997
CATALOG NUMBER: GALN-SA7C-840-U-5NQ-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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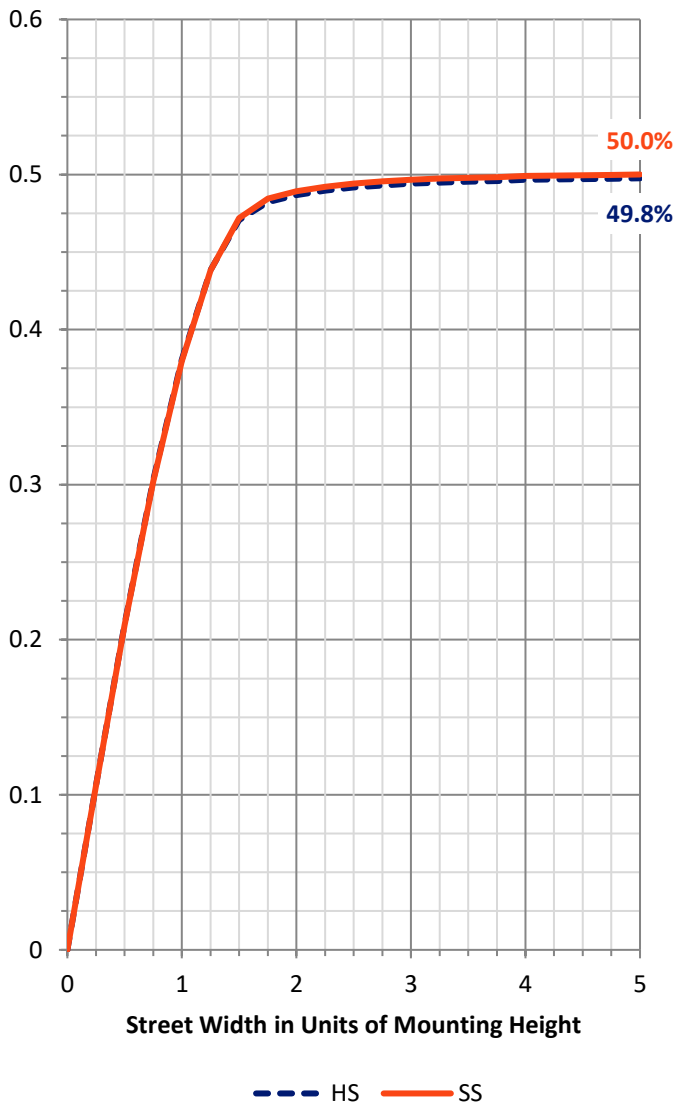
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18546.6	0.0	18546.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18546.6	0.0	18546.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	37093.1	0.0	37093.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	661.6	1.8
10°-20°	2096.4	5.7
20°-30°	3909.1	10.5
30°-40°	6545.0	17.6
40°-50°	10184.6	27.5
50°-60°	10574.8	28.5
60°-70°	2242.6	6.0
70°-80°	738.5	2.0
80°-90°	140.6	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°	37093.1	100.0
0°-180°	37093.1	100.0

Coefficient of Utilization

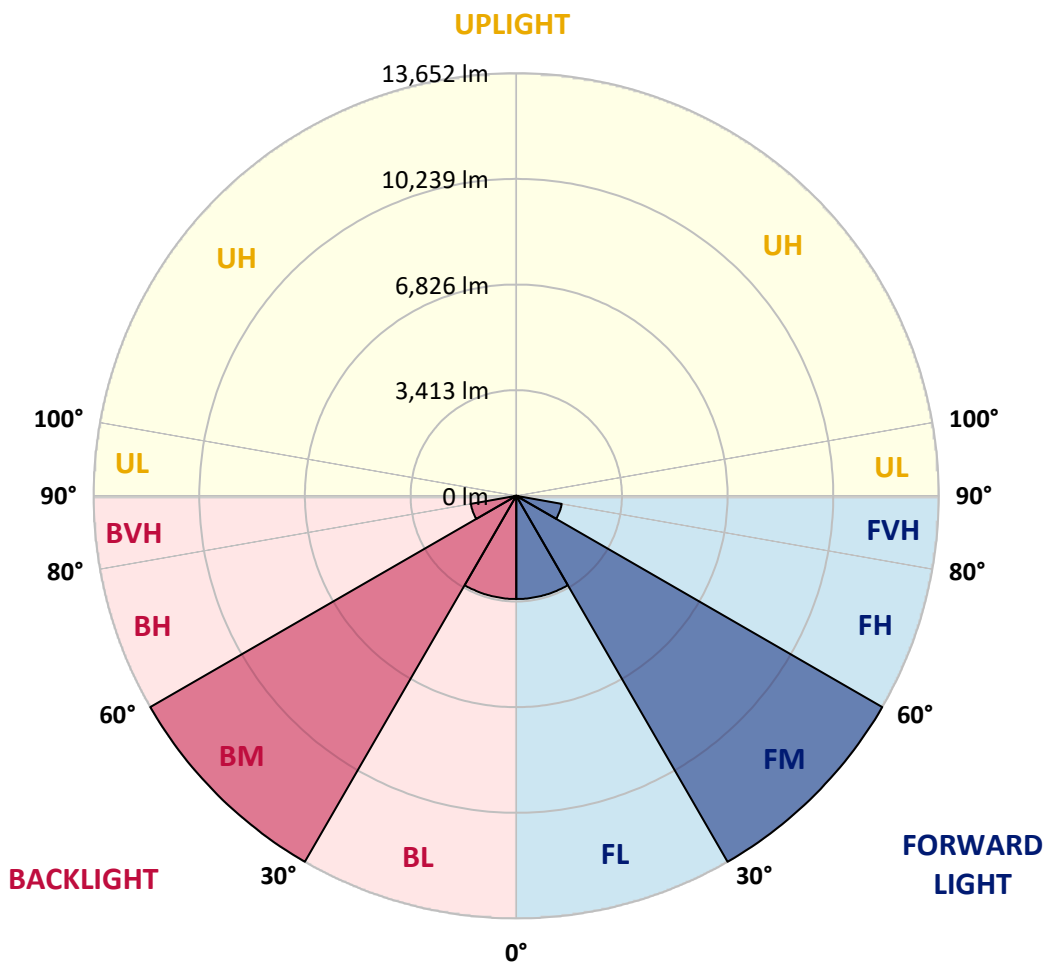


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3333.5	9.0			
FM (30°-60°)	13652.2	36.8			
FH (60°-80°)	1490.6	4.0			G1/1800
FVH (80°-90°)	70.3	0.2			G1/100
BL (0°-30°)	3333.5	9.0	B4/5000		
BM (30°-60°)	13652.2	36.8	B5		
BH (60°-80°)	1490.6	4.0	B3/2500		G1/1800
BVH (80°-90°)	70.3	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-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6772.7	6772.7	6772.7	6772.7	6772.7	6772.7	6772.7	6772.7	6772.7	6772.7	6772.7
2.5°	6853.3	6821.9	6768.2	6808.5	6839.9	6772.7	6799.6	6813.0	6804.0	6768.2	6781.7
5°	6952.0	6934.0	6889.2	6920.6	6880.2	6880.2	6853.3	6817.5	6871.2	6862.3	6884.7
7.5°	6952.0	6929.5	7019.2	6960.9	6978.9	6978.9	6934.0	6898.1	6925.0	6884.7	6862.3
10°	7090.9	7122.3	7081.9	7095.3	7086.4	7117.8	7050.5	7028.2	7005.7	6992.3	6965.4
12.5°	7256.7	7234.4	7247.7	7238.8	7270.2	7189.5	7149.2	7099.9	7140.2	7081.9	7122.3
15°	7391.2	7377.8	7391.2	7427.0	7395.7	7391.2	7319.5	7270.2	7207.5	7220.9	7158.1
17.5°	7575.0	7561.5	7566.0	7597.4	7592.9	7570.5	7516.7	7422.6	7400.1	7364.3	7323.9
20°	7848.4	7826.0	7817.0	7830.5	7852.8	7870.8	7763.2	7727.4	7651.2	7592.9	7525.7
22.5°	8081.5	8072.5	8108.3	8050.1	8099.4	8153.2	8050.1	8032.1	7843.9	7812.6	7740.8
25°	8404.2	8390.7	8368.4	8453.5	8511.8	8507.3	8408.7	8310.1	8166.6	8130.8	8130.8
27.5°	8744.8	8668.6	8785.2	8807.6	8910.6	8942.0	8856.9	8713.4	8579.0	8502.8	8520.8
30°	9170.7	9098.9	9125.9	9287.2	9421.6	9538.2	9323.1	9112.4	8924.1	8789.6	8767.3
32.5°	9596.5	9524.7	9605.4	9762.3	10031.3	10206.0	9995.4	9627.9	9408.2	9211.0	9251.3
35°	9941.6	9995.4	10125.4	10362.9	10640.8	10923.2	10587.0	10304.7	9990.9	9771.2	9802.6
37.5°	10497.4	10663.2	10766.3	11039.7	11434.2	11725.6	11375.9	11008.4	10672.2	10385.3	10286.7
40°	11223.5	11335.6	11452.1	11774.8	12241.0	12532.3	12200.6	11721.0	11389.3	11093.5	11080.1
42.5°	12021.3	12128.9	12249.9	12644.4	12922.3	13141.9	12837.1	12581.6	12214.1	11981.0	11967.6
45°	12949.2	12872.9	13007.4	13267.4	13500.5	13643.9	13446.7	13321.2	13056.8	12841.6	12819.2
47.5°	13567.7	13500.5	13742.5	13975.6	14011.5	13854.5	13894.9	14011.5	13733.5	13379.5	13491.5
50°	13926.3	13926.3	14087.7	14302.8	14235.6	14033.9	14352.1	14361.1	14083.2	13769.4	13769.4
52.5°	13303.3	13442.2	13899.4	14603.1	14827.3	14885.5	14813.8	14509.0	13782.9	13141.9	13110.5
55°	11591.1	11559.7	12178.3	13791.8	15096.2	15786.4	14872.1	13469.1	11994.4	11272.8	11201.1
57.5°	7539.1	7575.0	8498.3	10143.3	12496.5	13782.9	12241.0	10268.8	8498.3	7503.2	7597.4
60°	3393.0	3514.0	4074.3	5302.5	7323.9	8372.8	7341.9	5571.5	4276.1	3711.2	3760.6
62.5°	1949.8	1972.1	1994.6	2366.7	3119.6	3688.9	3240.6	2501.0	2205.3	2106.6	2106.6
65°	1645.0	1631.5	1636.0	1667.4	1748.1	1864.6	1815.3	1748.1	1757.0	1748.1	1734.6
67.5°	1398.5	1416.4	1403.0	1425.3	1429.9	1447.8	1479.2	1506.1	1510.5	1519.5	1510.5
70°	1147.5	1151.9	1160.9	1178.8	1183.3	1196.7	1241.6	1264.0	1277.4	1277.4	1295.4
72.5°	878.5	874.1	883.0	901.0	923.3	927.8	968.2	999.5	1017.4	995.1	999.5
75°	578.2	582.7	596.1	609.6	640.9	672.3	685.8	717.1	721.7	730.6	708.2
77.5°	345.1	354.1	367.5	394.4	421.3	448.3	479.6	502.0	511.0	502.0	475.1
80°	224.1	224.1	242.0	264.4	295.9	318.2	336.1	354.1	367.5	354.1	345.1
82.5°	138.9	138.9	161.4	188.2	210.7	224.1	251.0	273.4	286.9	277.9	264.4
85°	71.7	76.2	94.1	116.6	134.5	143.4	138.9	125.5	112.0	107.6	98.6
87.5°	22.4	22.4	26.9	26.9	22.4	22.4	26.9	22.4	26.9	26.9	26.9
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)