

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: P651493

Luminaire Tested: **GALN-SA7D-840-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651493
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-840-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47291.1 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

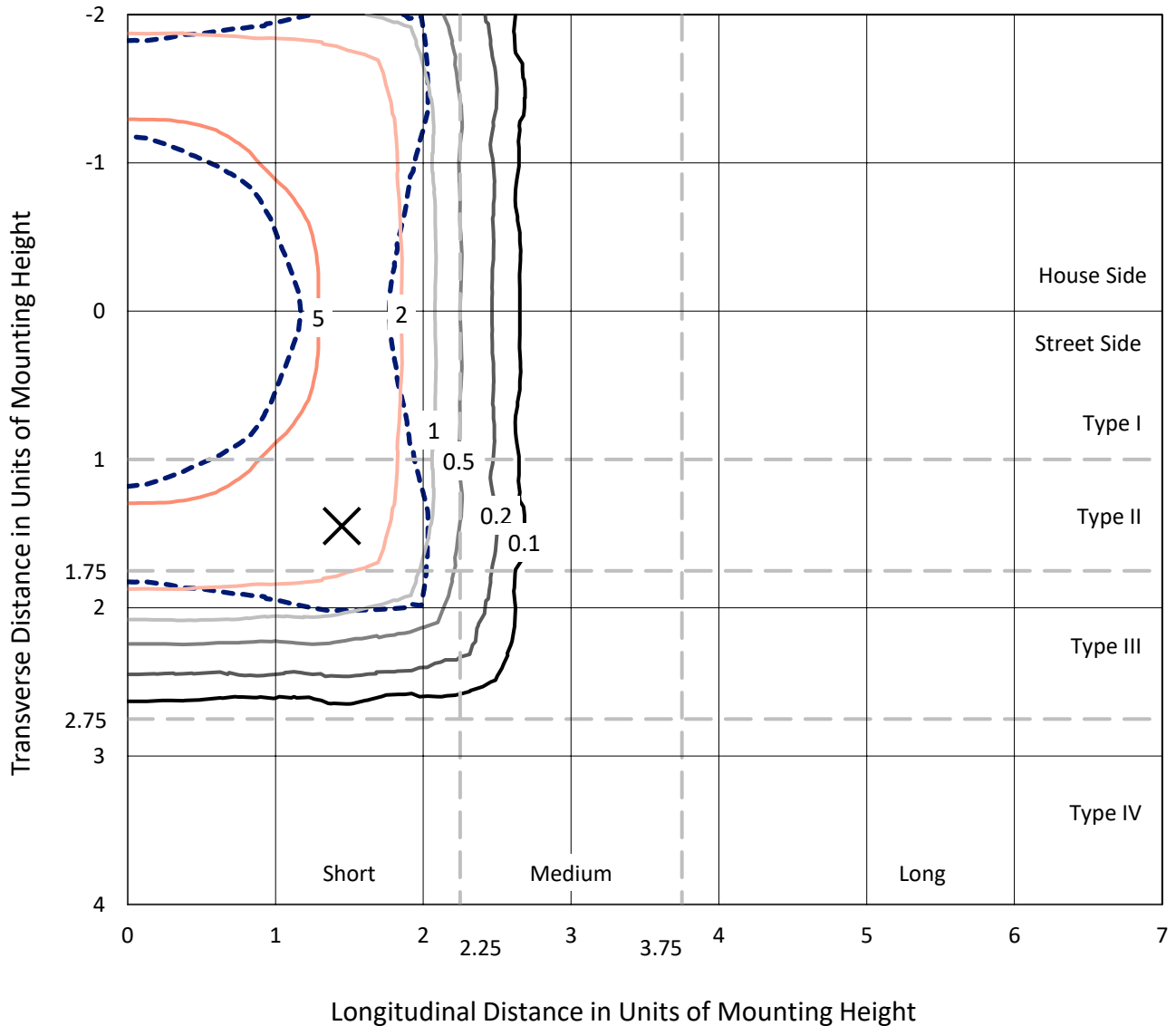
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P651493
 CATALOG NUMBER: GALN-SA7D-840-U-5NQ

Iso-Footcandle Lines of Horizontal Illumination

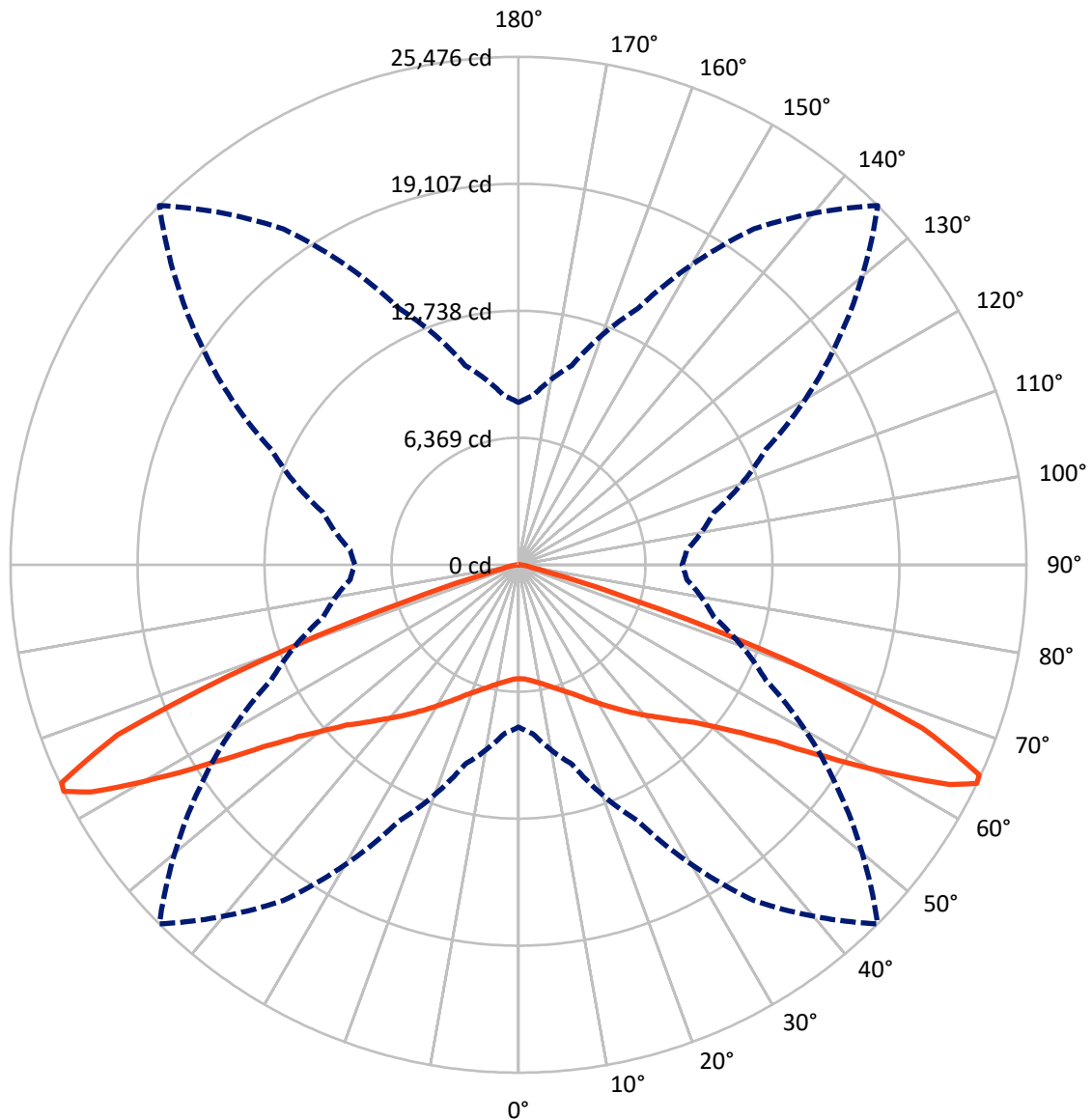
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
 Type V - Short - N/A

REPORT NUMBER: P651493
CATALOG NUMBER: GALN-SA7D-840-U-5NQ

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

REPORT NUMBER: P651493
 CATALOG NUMBER: GALN-SA7D-840-U-5NQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	23645.6	0.0	23645.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	23645.6	0.0	23645.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	47291.1	0.0	47291.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	561.6	1.2
10°-20°	1811.4	3.8
20°-30°	3423.0	7.2
30°-40°	5668.8	12.0
40°-50°	8849.9	18.7
50°-60°	13681.8	28.9
60°-70°	11797.6	24.9
70°-80°	1337.0	2.8
80°-90°	160.2	0.3
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°	47291.1	100.0
0°-180°	47291.1	100.0

Coefficient of Utilization



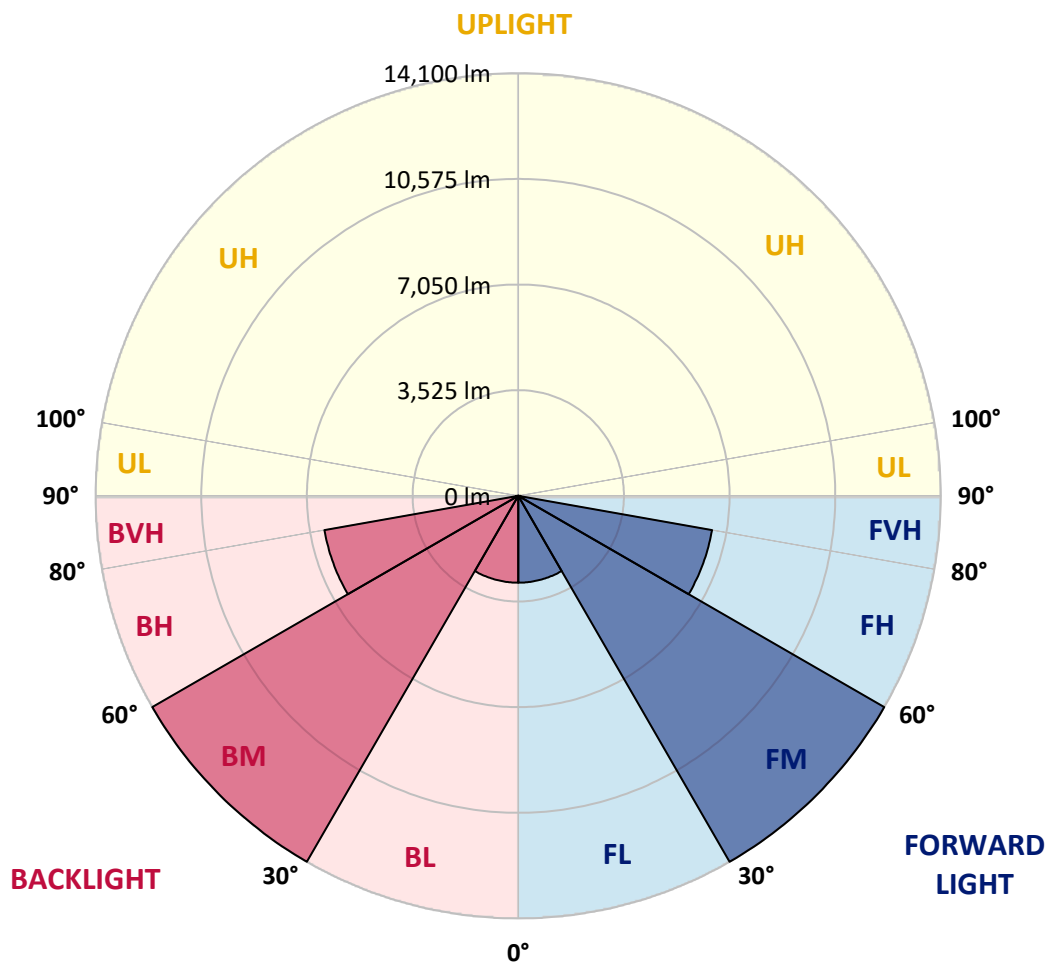
REPORT NUMBER: P651493
 CATALOG NUMBER: GALN-SA7D-840-U-5NQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2897.9	6.1			
FM (30°-60°)	14100.2	29.8			
FH (60°-80°)	6567.3	13.9			G3/7500
FVH (80°-90°)	80.1	0.2			G1/100
BL (0°-30°)	2897.9	6.1	B4/5000		
BM (30°-60°)	14100.2	29.8	B5		
BH (60°-80°)	6567.3	13.9	B5		G3/7500
BVH (80°-90°)	80.1	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-G3

Type V Short





REPORT NUMBER: P651493
 CATALOG NUMBER: GALN-SA7D-840-U-5NQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5715.9	5715.9	5715.9	5715.9	5715.9	5715.9	5715.9	5715.9	5715.9	5715.9	5715.9
2.5°	5738.5	5751.0	5741.0	5738.5	5736.0	5736.0	5736.0	5738.5	5748.5	5756.0	5751.0
5°	5811.1	5821.1	5816.1	5813.6	5811.1	5813.6	5808.6	5806.1	5813.6	5813.6	5811.1
7.5°	5901.3	5913.8	5908.8	5913.8	5916.4	5918.8	5906.3	5896.3	5893.7	5901.3	5896.3
10°	6024.0	6034.0	6036.5	6039.1	6044.0	6041.6	6026.5	6008.9	6006.5	6004.0	6001.5
12.5°	6161.8	6169.3	6171.8	6181.9	6189.3	6191.9	6174.3	6159.2	6134.3	6139.2	6129.2
15°	6317.1	6332.1	6329.6	6344.6	6364.7	6369.6	6352.2	6327.1	6304.6	6292.0	6284.5
17.5°	6507.4	6517.5	6512.5	6527.5	6552.5	6565.0	6550.0	6517.5	6494.9	6467.4	6452.3
20°	6732.9	6750.4	6755.4	6755.4	6778.0	6790.5	6767.9	6757.9	6722.9	6702.9	6690.3
22.5°	6988.4	6995.9	7010.9	7026.0	7048.5	7043.5	7036.0	7020.9	6988.4	6970.8	6950.8
25°	7276.4	7283.9	7321.5	7354.0	7361.6	7356.6	7346.6	7339.1	7309.0	7268.9	7253.9
27.5°	7612.1	7627.1	7677.2	7707.3	7707.3	7709.7	7689.7	7714.7	7649.7	7602.1	7597.0
30°	8032.9	8042.9	8085.5	8115.5	8100.5	8088.0	8082.9	8108.0	8037.9	7952.7	7932.6
32.5°	8448.7	8483.8	8521.3	8586.4	8533.8	8511.3	8506.3	8523.8	8443.6	8348.4	8320.9
35°	8894.5	8919.6	8989.7	9044.8	8997.2	8944.6	8967.2	9022.2	8927.0	8799.3	8794.3
37.5°	9387.9	9410.5	9500.7	9558.3	9523.2	9433.0	9470.6	9535.8	9440.6	9282.7	9250.2
40°	9901.4	9949.0	10061.7	10121.9	10064.2	9944.0	10014.1	10084.3	9999.2	9816.2	9743.7
42.5°	10477.5	10552.7	10715.5	10745.5	10635.4	10472.6	10595.3	10707.9	10647.8	10437.5	10409.9
45°	11151.3	11196.4	11396.8	11461.9	11309.1	11106.2	11259.1	11464.4	11419.4	11176.4	11123.7
47.5°	11905.3	11947.8	12155.7	12253.5	12060.5	11787.5	12063.1	12331.1	12303.5	12043.0	12018.0
50°	12797.0	12807.0	13095.0	13205.2	13012.4	12776.9	13022.4	13355.5	13245.3	12912.2	12907.2
52.5°	13773.8	13786.3	14149.6	14362.4	14254.8	13989.3	14279.8	14482.7	14202.1	13766.3	13733.8
55°	14620.4	14683.1	15179.0	15745.1	15892.9	15700.0	15787.7	15692.5	15001.2	14390.0	14294.8
57.5°	14966.1	15088.8	15842.8	16899.8	17861.7	18147.2	17470.9	16564.2	15319.3	14455.1	14362.4
60°	14122.0	14254.8	15424.4	17430.8	19885.5	21125.4	19224.3	16711.9	14595.4	13380.6	13235.3
62.5°	11309.1	11346.7	13067.5	16180.9	21065.3	24276.4	19963.2	15452.0	12488.8	10838.2	10780.6
64°	8138.0	8523.8	10347.2	14187.1	20549.2	25476.2	19537.4	13686.2	10144.4	8473.7	8203.2
65°	6086.7	6191.9	8341.0	12115.7	19640.0	25386.0	18710.7	11998.0	8401.1	6484.9	6184.3
67.5°	2299.4	2311.9	3078.4	6039.1	13981.7	21841.8	14279.8	6527.5	3539.3	2559.9	2467.2
70°	954.3	971.9	1129.6	2031.4	6008.9	14024.3	6885.7	2354.5	1295.0	1049.5	1034.5
72.5°	698.9	708.9	756.5	901.7	1848.5	5758.5	2264.3	999.4	758.9	678.8	671.3
75°	548.6	553.5	588.6	663.8	861.7	1595.5	941.8	686.3	578.6	521.0	516.0
77.5°	418.3	430.8	455.9	505.9	578.6	756.5	623.7	513.5	445.8	398.3	390.7
80°	288.0	303.1	350.7	370.7	388.2	491.0	425.8	388.2	348.2	290.6	273.0
82.5°	177.9	187.9	235.5	253.0	245.5	275.5	273.0	278.0	248.0	180.3	167.8
85°	92.7	97.7	127.7	132.8	122.7	112.7	140.3	162.8	152.8	102.7	100.2
87.5°	20.0	22.5	27.6	25.1	27.6	27.6	35.1	52.6	55.1	35.1	32.5
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)