

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: P457213

Luminaire Tested: **GALN-SA8C-740-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457213
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8C-740-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 58573 lumens
Efficiency: N/A
Efficacy: 136.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

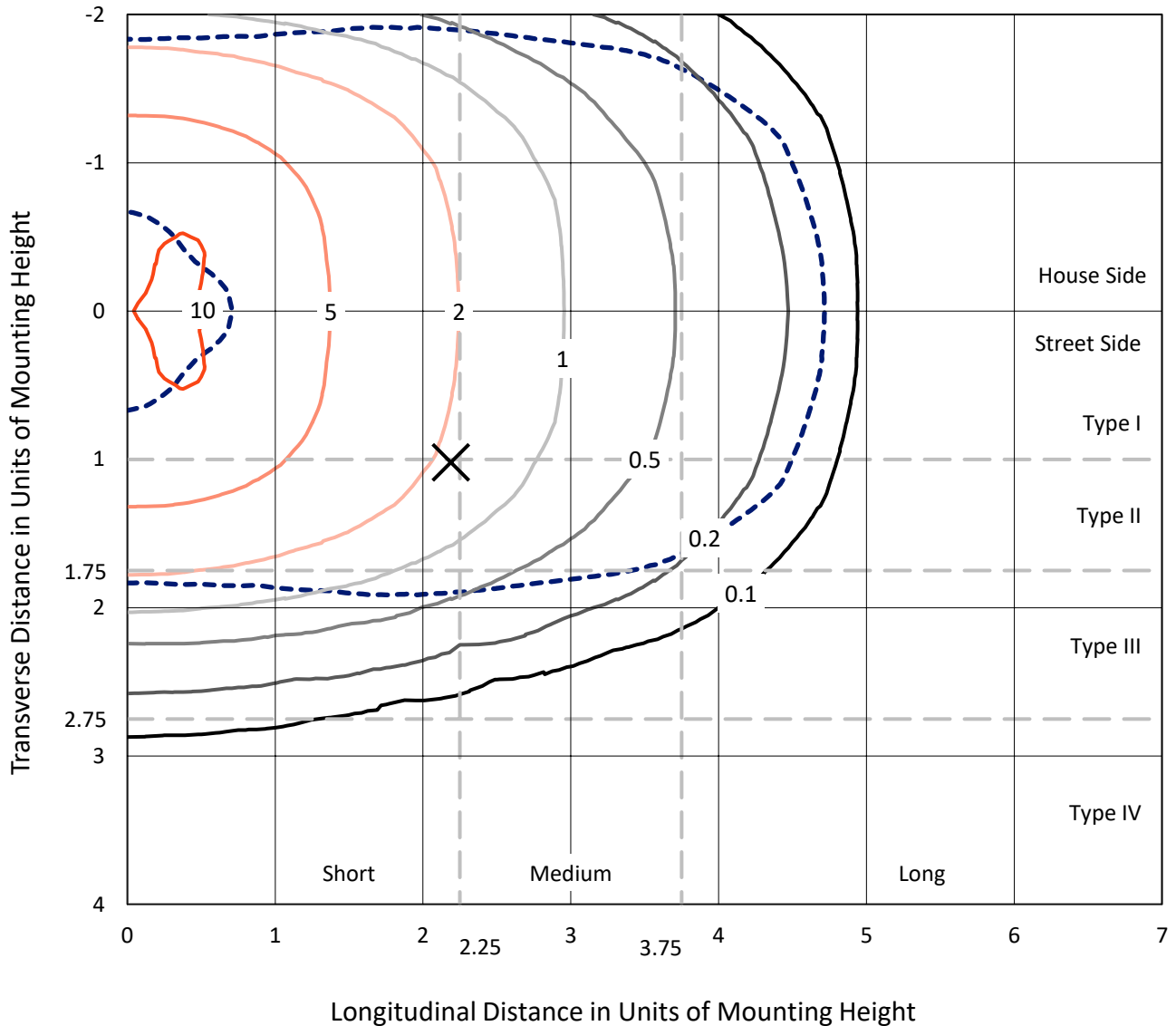
Input Watts (W): 429
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P457213
 CATALOG NUMBER: GALN-SA8C-740-U-RW

Iso-Footcandle Lines of Horizontal Illumination

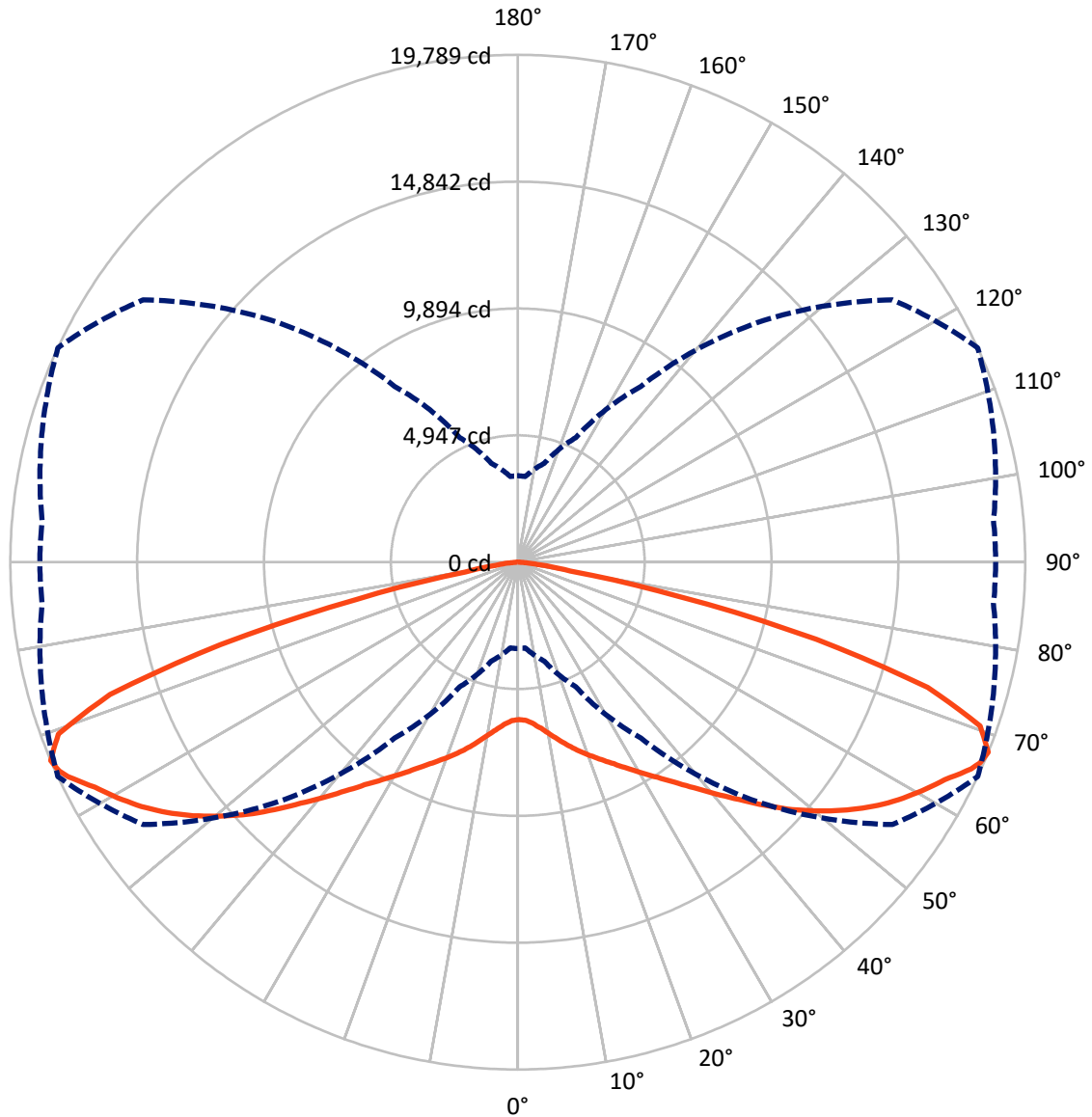
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 fc
 Type III - Short - N/A

REPORT NUMBER: P457213
CATALOG NUMBER: GALN-SA8C-740-U-RW

Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P457213

CATALOG NUMBER: GALN-SA8C-740-U-RW

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	29286.5	0.0	29286.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	29286.5	0.0	29286.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	58573.0	0.0	58573.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	605.1	1.0
10°-20°	2025.1	3.5
20°-30°	3961.3	6.8
30°-40°	6737.7	11.5
40°-50°	10663.7	18.2
50°-60°	14139.9	24.1
60°-70°	13338.3	22.8
70°-80°	6593.8	11.3
80°-90°	508.2	0.9
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°	58573.0	100.0
0°-180°	58573.0	100.0



REPORT NUMBER: P457213

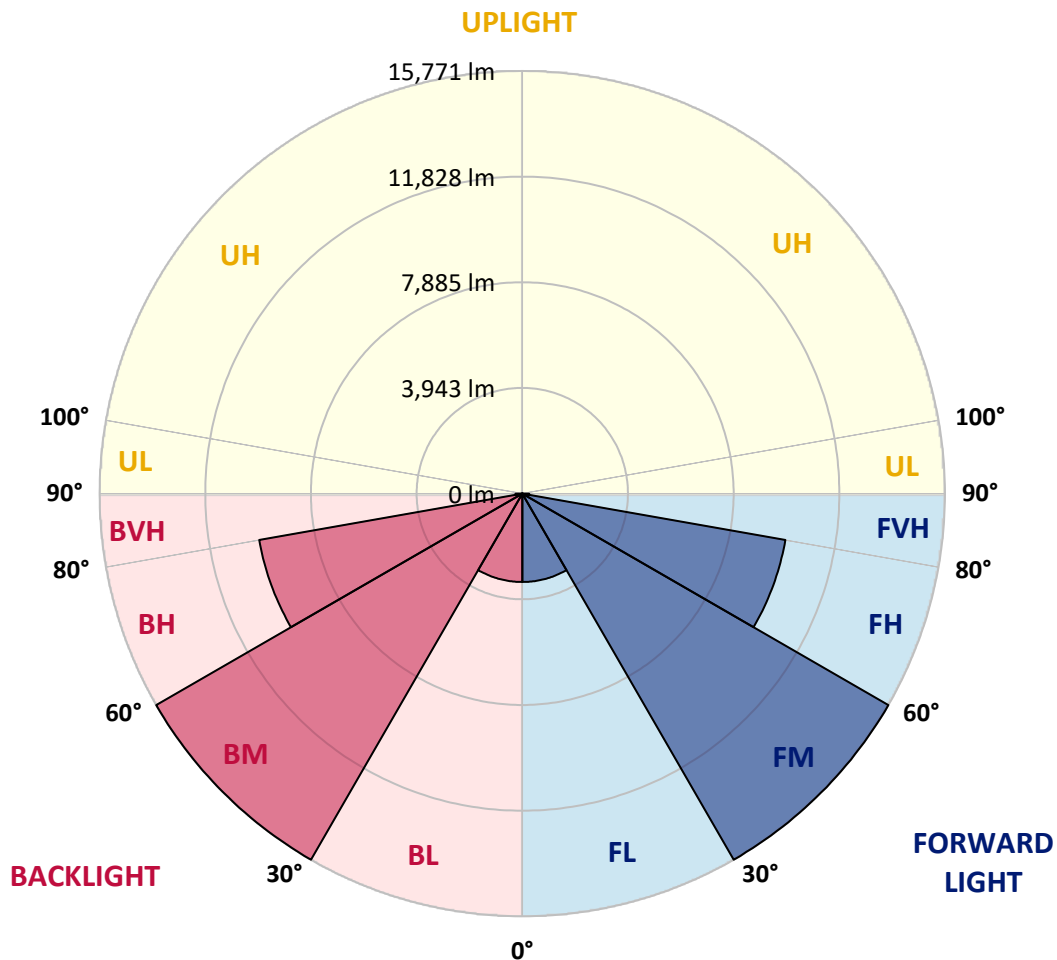
CATALOG NUMBER: GALN-SA8C-740-U-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3295.8	5.6			
FM	(30°-60°)	15770.6	26.9			
FH	(60°-80°)	9966.0	17.0			G4/12000
FVH	(80°-90°)	254.1	0.4			G3/500
BL	(0°-30°)	3295.8	5.6	B4/5000		
BM	(30°-60°)	15770.6	26.9	B5		
BH	(60°-80°)	9966.0	17.0	B5		G5
BVH	(80°-90°)	254.1	0.4			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type III Short





REPORT NUMBER: P457213

CATALOG NUMBER: GALN-SA8C-740-U-RW

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6135.0	6135.0	6135.0	6135.0	6135.0	6135.0	6135.0	6135.0	6135.0	6135.0	6135.0
2.5°	6103.6	6109.9	6116.2	6125.6	6138.1	6157.0	6169.5	6178.9	6204.0	6207.2	6204.0
5°	6081.7	6087.9	6103.6	6131.9	6172.7	6229.1	6273.1	6326.4	6367.2	6395.5	6389.2
7.5°	6078.5	6091.1	6116.2	6175.8	6254.3	6351.5	6452.0	6543.0	6621.4	6684.2	6674.8
10°	6128.7	6144.4	6185.2	6273.1	6395.5	6536.7	6677.9	6812.8	6925.8	7007.4	7035.6
12.5°	6213.5	6226.0	6301.3	6433.1	6608.9	6784.6	6944.6	7111.0	7267.9	7405.9	7405.9
15°	6360.9	6382.9	6477.1	6668.5	6885.0	7089.0	7252.2	7427.9	7597.4	7754.3	7801.3
17.5°	6564.9	6596.3	6737.5	6982.3	7258.4	7446.7	7600.5	7744.9	7892.3	8043.0	8064.9
20°	6844.2	6875.6	7063.9	7358.9	7685.2	7911.2	8014.7	8049.3	8121.4	8265.8	8284.6
22.5°	7223.9	7255.3	7465.6	7798.2	8162.2	8407.0	8450.9	8369.3	8350.5	8463.5	8476.0
25°	7653.9	7682.1	7923.7	8281.5	8658.0	8924.8	8912.2	8711.4	8598.4	8667.5	8686.3
27.5°	8137.1	8177.9	8422.7	8793.0	9200.9	9436.3	9398.6	9106.8	8865.2	8852.6	8858.9
30°	8755.3	8799.3	9031.5	9386.1	9787.8	10004.3	9925.8	9533.6	9160.1	9034.6	9034.6
32.5°	9408.1	9517.9	9753.2	10123.5	10437.4	10594.3	10475.0	10004.3	9508.5	9332.7	9323.3
35°	10258.5	10318.1	10550.3	10911.2	11146.6	11269.0	11039.9	10534.6	9963.5	9756.4	9728.1
37.5°	11090.1	11140.3	11410.2	11755.4	12040.9	12034.7	11724.0	11165.4	10528.4	10296.1	10277.3
40°	11940.5	11993.9	12301.4	12618.3	12903.9	12878.8	12502.2	11877.7	11199.9	10939.5	10989.7
42.5°	12678.0	12737.6	13085.9	13537.8	13795.1	13788.9	13352.7	12649.7	11943.6	11711.4	11755.4
45°	13349.5	13402.9	13807.7	14325.5	14702.0	14749.1	14272.1	13528.4	12803.5	12505.4	12517.9
47.5°	13823.4	13923.8	14347.4	14940.5	15452.1	15618.4	15150.8	14422.8	13588.0	13277.3	13296.2
50°	14184.3	14247.0	14708.3	15383.0	16029.5	16374.7	15998.1	15251.2	14372.5	14043.0	14087.0
52.5°	14228.2	14303.5	14805.6	15583.9	16412.3	16936.4	16751.2	16060.8	15172.8	14833.8	14928.0
55°	13870.4	13914.4	14513.8	15458.3	16562.9	17353.7	17400.8	16814.0	15935.3	15678.0	15740.8
57.5°	12850.6	12963.5	13723.0	14871.5	16355.8	17576.6	17887.2	17498.1	16707.3	16453.1	16553.5
60°	11177.9	11290.9	12053.5	13509.6	15574.4	17473.0	18288.9	18103.8	17407.1	17203.1	17256.5
62.5°	8758.5	8749.1	9693.6	11479.2	14021.1	16964.6	18587.0	18687.4	18097.5	17840.2	17921.7
65°	5676.8	5705.1	6618.3	8541.9	11676.9	15671.7	18652.9	19431.2	18775.3	18386.2	18445.8
66°	4566.0	4650.7	5425.8	7198.8	10481.3	14824.4	18455.2	19650.8	18982.4	18511.7	18540.0
67.5°	3370.3	3354.6	3991.7	5359.9	8369.3	13214.6	17837.0	19788.9	19217.8	18624.7	18637.2
70°	1923.7	1920.5	2146.5	2943.5	4920.6	9304.5	15034.7	19126.8	19694.8	19032.6	18998.1
72.5°	1405.9	1396.5	1427.8	1625.5	2400.7	4697.8	10371.5	16716.7	19450.0	18966.7	18869.5
75°	1179.9	1173.7	1167.4	1192.5	1346.2	2127.6	5504.2	12025.2	16876.8	17802.5	17702.1
77.5°	963.4	963.4	966.5	960.3	966.5	1120.3	2281.4	6445.7	10277.3	11472.9	11752.2
80°	753.1	750.0	803.4	781.4	731.2	718.6	1010.5	2074.3	3411.1	3392.3	2799.2
82.5°	555.4	517.8	611.9	596.2	539.8	458.2	590.0	884.9	1139.1	740.6	549.2
85°	351.5	348.3	433.1	395.4	329.5	216.5	282.4	379.7	470.7	285.6	232.2
87.5°	62.8	59.6	138.1	100.4	100.4	62.8	78.5	103.6	153.8	106.7	78.5
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)