

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: P457300

Luminaire Tested: **GALN-SA8C-827-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457300
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-827-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43058 lumens
Efficiency: N/A
Efficacy: 100.4 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

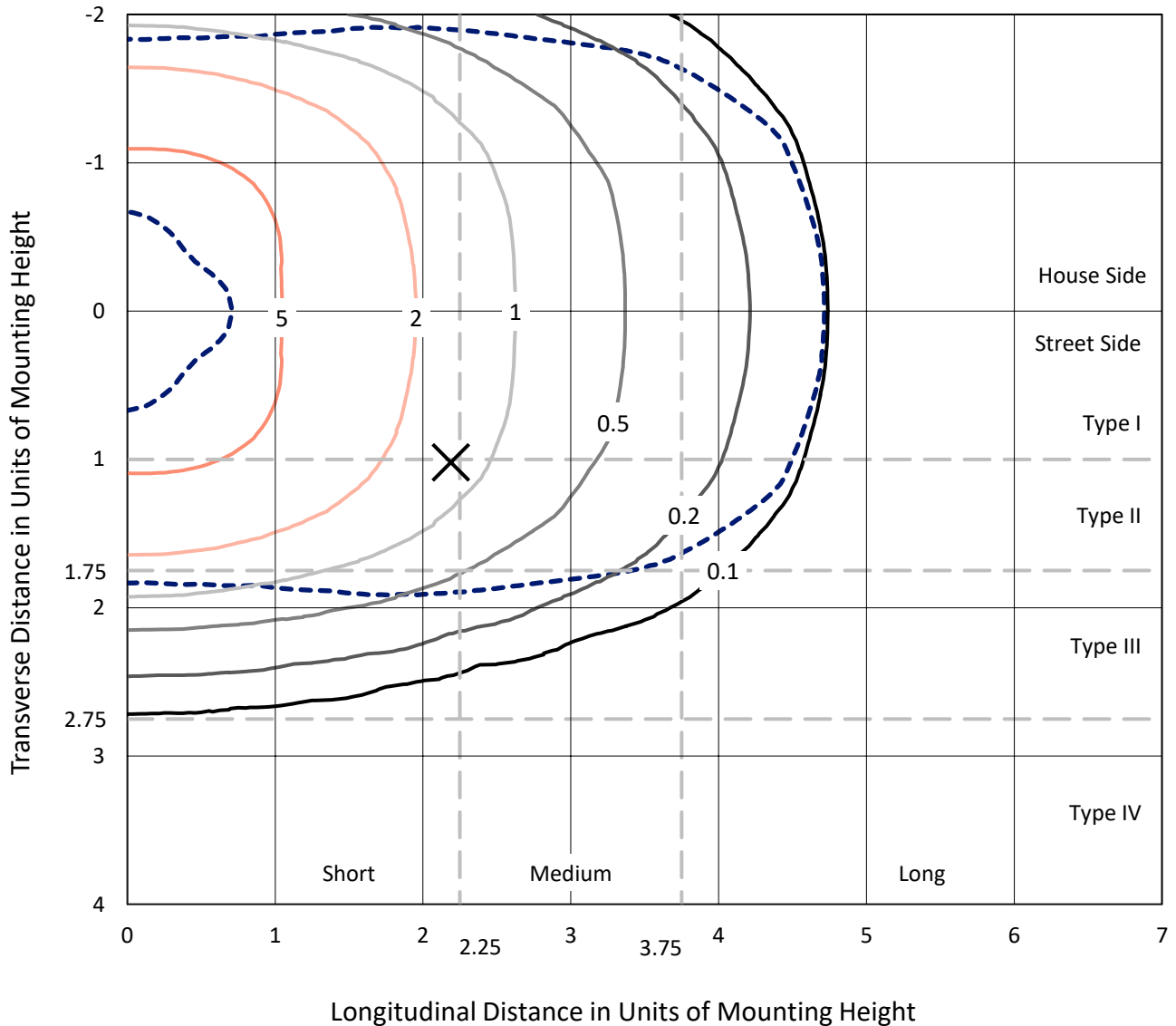
Input Watts (W): 429
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

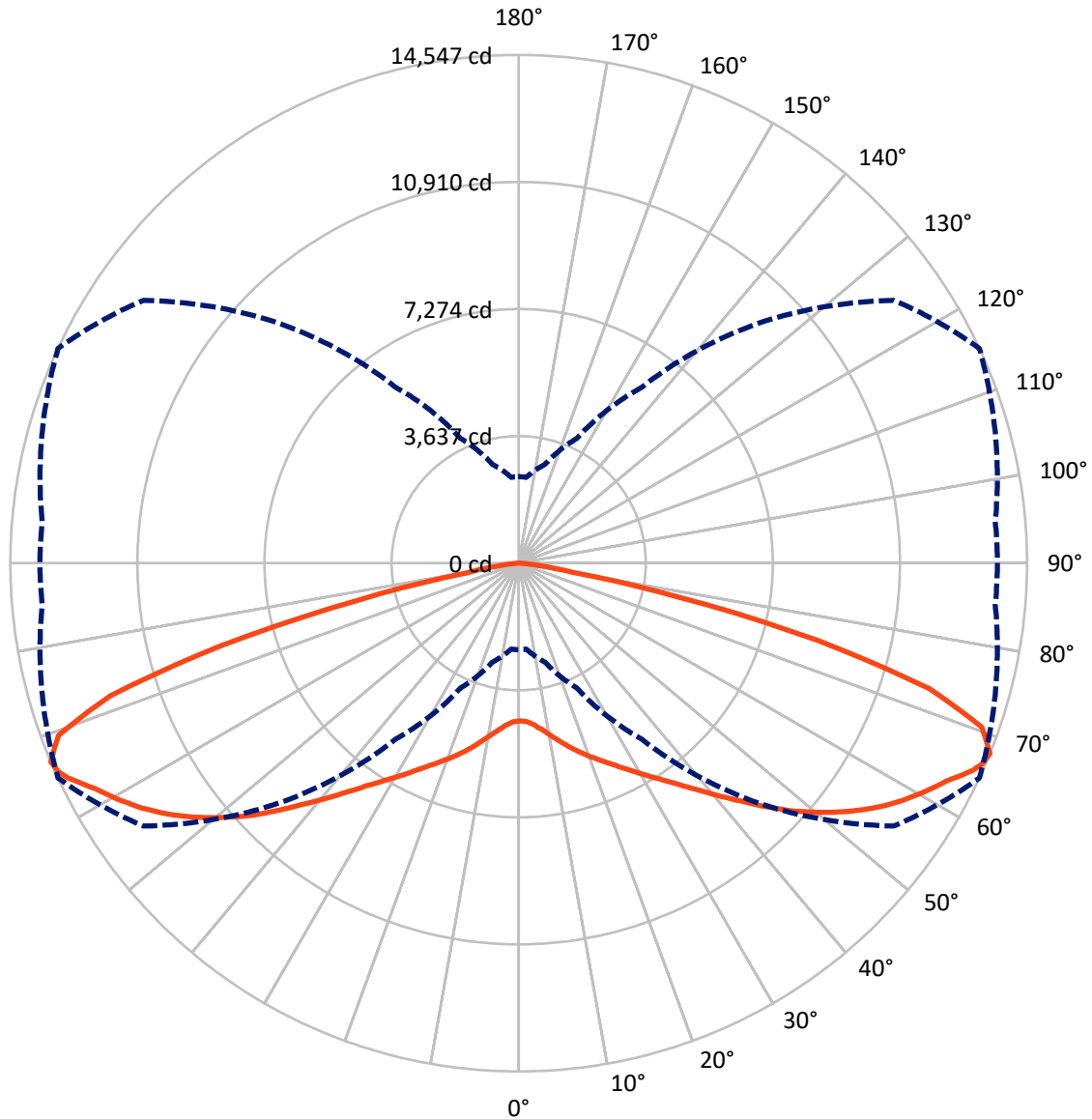
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21529.0	0.0	21529.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	21529.0	0.0	21529.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	43058.0	0.0	43058.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	444.8	1.0
10°-20°	1488.7	3.5
20°-30°	2912.0	6.8
30°-40°	4953.0	11.5
40°-50°	7839.1	18.2
50°-60°	10394.5	24.1
60°-70°	9805.2	22.8
70°-80°	4847.2	11.3
80°-90°	373.5	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°	43058.0	100.0
0°-180°	43058.0	100.0

Coefficient of Utilization



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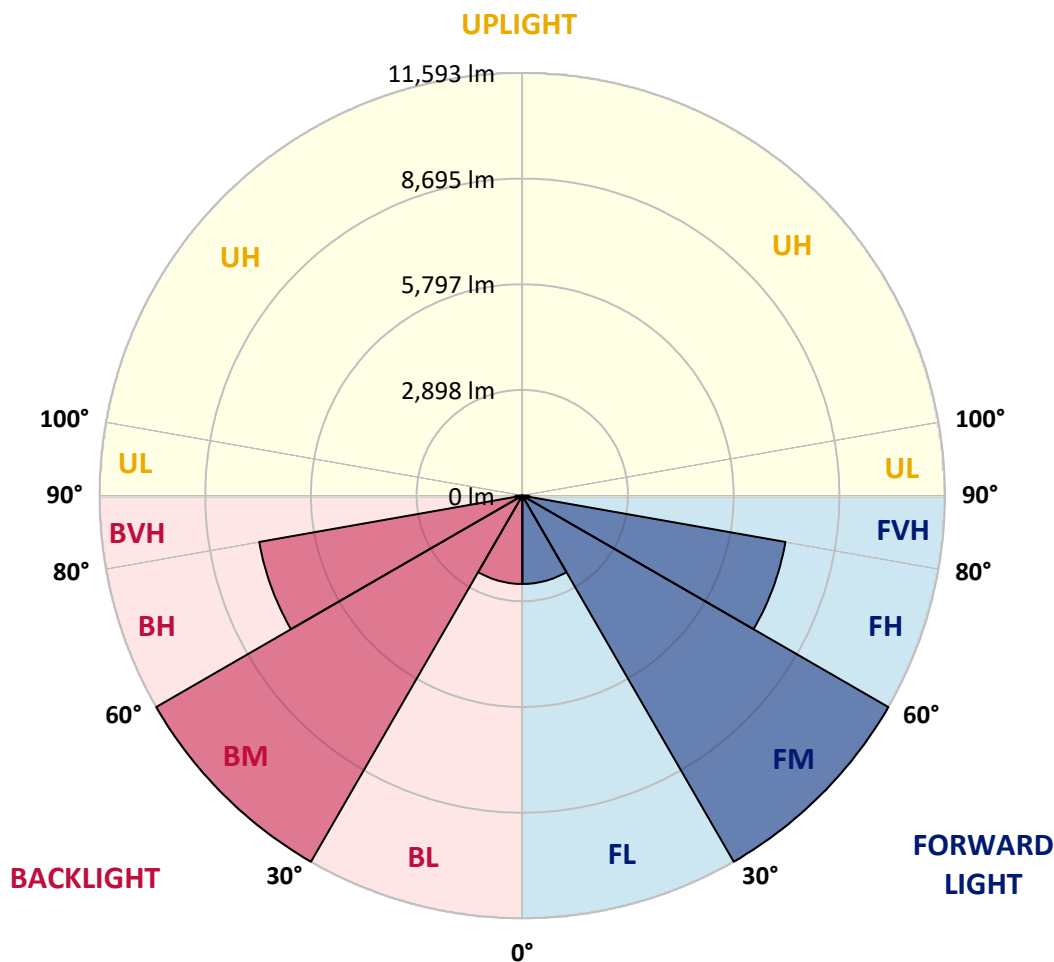
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2422.8	5.6			
FM (30°-60°)	11593.3	26.9			
FH (60°-80°)	7326.2	17.0			G3/7500
FVH (80°-90°)	186.8	0.4			G2/225
BL (0°-30°)	2422.8	5.6	B3/2500		
BM (30°-60°)	11593.3	26.9	B5		
BH (60°-80°)	7326.2	17.0	B5		G5
BVH (80°-90°)	186.8	0.4			G2/225
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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4509.9	4509.9	4509.9	4509.9	4509.9	4509.9	4509.9	4509.9	4509.9	4509.9	4509.9
2.5°	4486.9	4491.5	4496.1	4503.0	4512.3	4526.1	4535.3	4542.2	4560.7	4563.0	4560.7
5°	4470.7	4475.3	4486.9	4507.6	4537.6	4579.2	4611.4	4650.7	4680.7	4701.4	4696.8
7.5°	4468.4	4477.6	4496.1	4539.9	4597.6	4669.1	4742.9	4809.8	4867.5	4913.6	4906.7
10°	4505.3	4516.9	4546.9	4611.4	4701.4	4805.2	4909.0	5008.2	5091.3	5151.3	5172.0
12.5°	4567.6	4576.8	4632.2	4729.1	4858.3	4987.5	5105.1	5227.4	5342.7	5444.2	5444.2
15°	4676.0	4692.2	4761.4	4902.1	5061.3	5211.2	5331.2	5460.4	5585.0	5700.3	5734.9
17.5°	4826.0	4849.1	4952.9	5132.8	5335.8	5474.2	5587.3	5693.4	5801.8	5912.5	5928.7
20°	5031.3	5054.4	5192.8	5409.6	5649.5	5815.6	5891.8	5917.1	5970.2	6076.3	6090.2
22.5°	5310.4	5333.5	5488.1	5732.6	6000.2	6180.1	6212.4	6152.4	6138.6	6221.6	6230.9
25°	5626.5	5647.2	5824.9	6087.8	6364.7	6560.8	6551.5	6403.9	6320.8	6371.6	6385.4
27.5°	5981.7	6011.7	6191.7	6463.9	6763.8	6936.8	6909.1	6694.6	6516.9	6507.7	6512.3
30°	6436.2	6468.5	6639.2	6899.9	7195.2	7354.3	7296.7	7008.3	6733.8	6641.5	6641.5
32.5°	6916.0	6996.8	7169.8	7442.0	7672.7	7788.0	7700.4	7354.3	6989.8	6860.7	6853.7
35°	7541.2	7585.0	7755.7	8021.0	8194.0	8284.0	8115.6	7744.2	7324.3	7172.1	7151.3
37.5°	8152.5	8189.4	8387.8	8641.6	8851.5	8846.9	8618.5	8207.9	7739.6	7568.9	7555.0
40°	8777.7	8816.9	9043.0	9276.0	9485.9	9467.4	9190.6	8731.5	8233.2	8041.8	8078.7
42.5°	9319.8	9363.6	9619.7	9951.9	10141.0	10136.4	9815.8	9299.0	8780.0	8609.3	8641.6
45°	9813.5	9852.7	10150.3	10530.9	10807.7	10842.3	10491.7	9944.9	9412.1	9192.9	9202.1
47.5°	10161.8	10235.6	10547.0	10983.0	11359.1	11481.3	11137.6	10602.4	9988.8	9760.4	9774.2
50°	10427.1	10473.2	10812.3	11308.3	11783.5	12037.3	11760.5	11211.4	10565.5	10323.3	10355.6
52.5°	10459.4	10514.7	10883.8	11456.0	12065.0	12450.2	12314.1	11806.6	11153.8	10904.6	10973.8
55°	10196.4	10228.7	10669.3	11363.7	12175.7	12757.0	12791.6	12360.3	11714.3	11525.2	11571.3
57.5°	9446.7	9529.7	10088.0	10932.3	12023.4	12920.8	13149.2	12863.1	12281.8	12095.0	12168.8
60°	8217.1	8300.1	8860.7	9931.1	11449.0	12844.7	13444.5	13308.4	12796.2	12646.3	12685.5
62.5°	6438.5	6431.6	7125.9	8438.6	10307.1	12471.0	13663.6	13737.5	13303.8	13114.6	13174.6
65°	4173.1	4193.9	4865.2	6279.3	8583.9	11520.5	13712.1	14284.2	13802.0	13516.0	13559.8
66°	3356.5	3418.8	3988.6	5292.0	7705.0	10897.7	13566.7	14445.7	13954.3	13608.3	13629.0
67.5°	2477.6	2466.1	2934.3	3940.1	6152.4	9714.3	13112.3	14547.2	14127.3	13691.3	13700.5
70°	1414.1	1411.8	1577.9	2163.9	3617.2	6839.9	11052.3	14060.4	14478.0	13991.2	13965.8
72.5°	1033.5	1026.6	1049.6	1195.0	1764.8	3453.4	7624.2	12288.7	14298.0	13942.8	13871.3
75°	867.4	862.8	858.2	876.6	989.7	1564.1	4046.3	8840.0	12406.4	13086.9	13013.1
77.5°	708.2	708.2	710.5	705.9	710.5	823.6	1677.1	4738.3	7555.0	8433.9	8639.3
80°	553.7	551.3	590.6	574.4	537.5	528.3	742.8	1524.8	2507.6	2493.7	2057.7
82.5°	408.3	380.6	449.8	438.3	396.8	336.8	433.7	650.5	837.4	544.4	403.7
85°	258.4	256.1	318.3	290.7	242.2	159.2	207.6	279.1	346.0	209.9	170.7
87.5°	46.1	43.8	101.5	73.8	73.8	46.1	57.7	76.1	113.0	78.4	57.7
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)