

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: P457996

Luminaire Tested: **GALN-SA9B-827-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457996
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-SA9B-827-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39124 lumens
Efficiency: N/A
Efficacy: 107.5 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

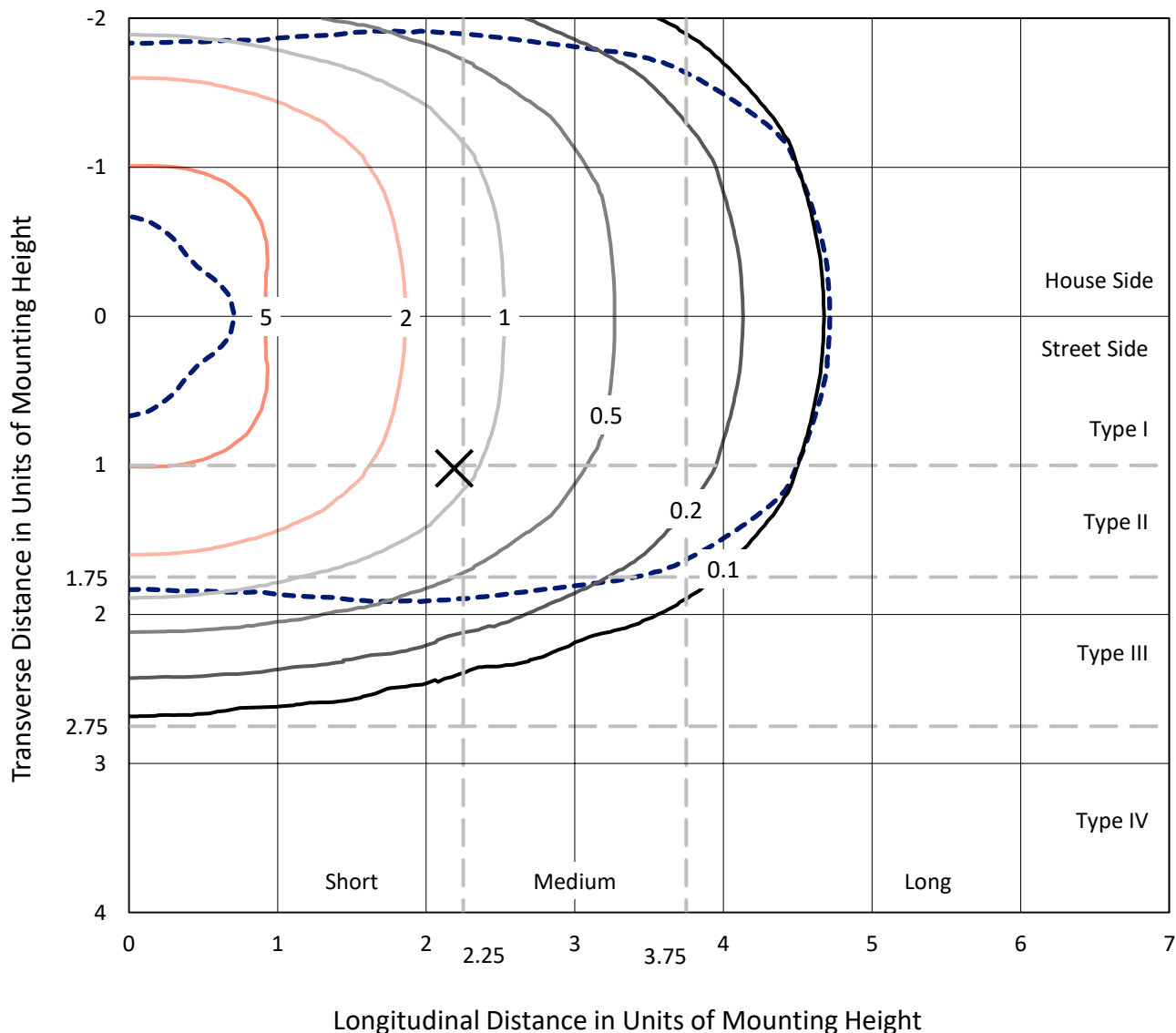
Input Watts (W): 364
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

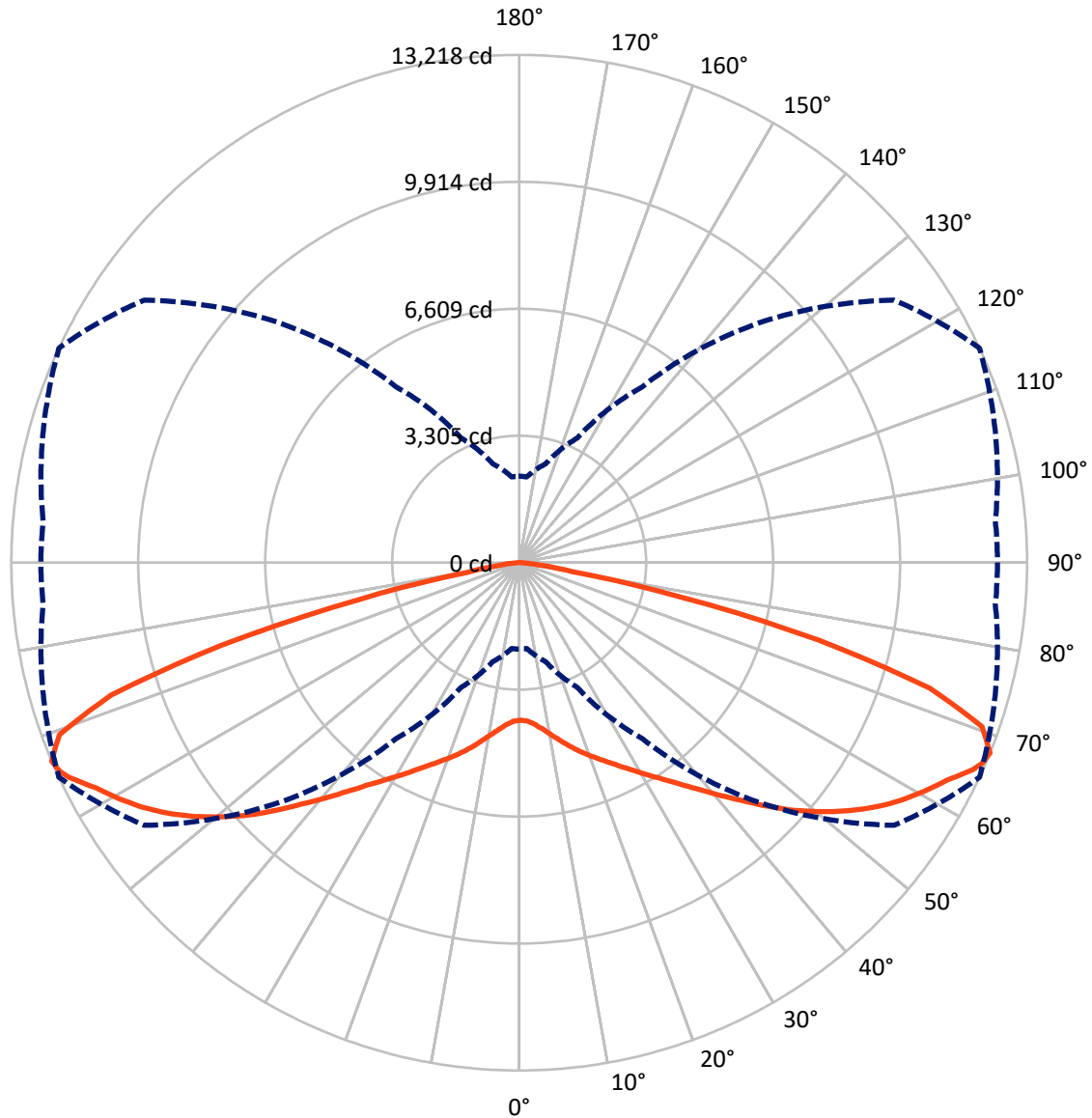
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 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	19562.0	0.0	19562.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19562.0	0.0	19562.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	39124.0	0.0	39124.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	404.2	1.0
10°-20°	1352.7	3.5
20°-30°	2646.0	6.8
30°-40°	4500.4	11.5
40°-50°	7122.9	18.2
50°-60°	9444.8	24.1
60°-70°	8909.3	22.8
70°-80°	4404.3	11.3
80°-90°	339.4	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°	39124.0	100.0
0°-180°	39124.0	100.0

Coefficient of Utilization



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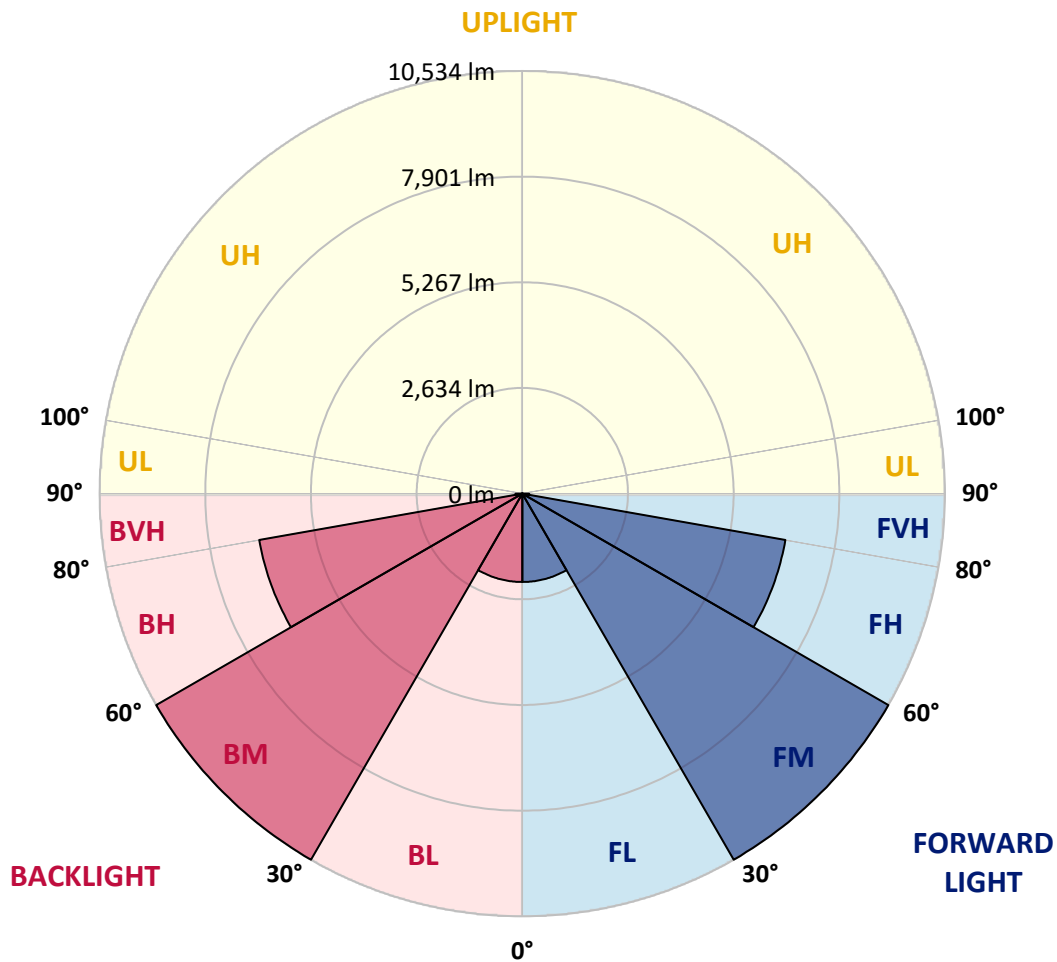
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2201.4	5.6			
FM	(30°-60°)	10534.0	26.9			
FH	(60°-80°)	6656.8	17.0			G3/7500
FVH	(80°-90°)	169.7	0.4			G2/225
BL	(0°-30°)	2201.4	5.6	B3/2500		
BM	(30°-60°)	10534.0	26.9	B5		
BH	(60°-80°)	6656.8	17.0	B5		G5
BVH	(80°-90°)	169.7	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°	4097.9	4097.9	4097.9	4097.9	4097.9	4097.9	4097.9	4097.9	4097.9	4097.9	4097.9
2.5°	4076.9	4081.1	4085.3	4091.6	4100.0	4112.6	4121.0	4127.2	4144.0	4146.1	4144.0
5°	4062.3	4066.5	4076.9	4095.8	4123.0	4160.8	4190.1	4225.8	4253.0	4271.9	4267.7
7.5°	4060.2	4068.5	4085.3	4125.1	4177.5	4242.5	4309.6	4370.4	4422.8	4464.7	4458.4
10°	4093.7	4104.2	4131.4	4190.1	4271.9	4366.2	4460.5	4550.7	4626.1	4680.6	4699.5
12.5°	4150.3	4158.7	4209.0	4297.0	4414.4	4531.8	4638.7	4749.8	4854.6	4946.8	4946.8
15°	4248.8	4263.5	4326.4	4454.2	4598.9	4735.1	4844.1	4961.5	5074.7	5179.5	5210.9
17.5°	4385.1	4406.0	4500.3	4663.8	4848.3	4974.1	5076.8	5173.2	5271.7	5372.3	5387.0
20°	4571.6	4592.6	4718.3	4915.4	5133.4	5284.3	5353.5	5376.5	5424.7	5521.2	5533.7
22.5°	4825.2	4846.2	4986.6	5208.8	5452.0	5615.5	5644.8	5590.3	5577.7	5653.2	5661.6
25°	5112.4	5131.3	5292.7	5531.6	5783.2	5961.3	5953.0	5818.8	5743.3	5789.5	5802.0
27.5°	5435.2	5462.5	5626.0	5873.3	6145.8	6303.0	6277.8	6082.9	5921.5	5913.1	5917.3
30°	5848.1	5877.5	6032.6	6269.5	6537.8	6682.4	6630.0	6368.0	6118.5	6034.7	6034.7
32.5°	6284.1	6357.5	6514.7	6762.0	6971.7	7076.5	6996.8	6682.4	6351.2	6233.8	6227.5
35°	6852.2	6892.0	7047.1	7288.2	7445.4	7527.1	7374.1	7036.6	6655.1	6516.8	6497.9
37.5°	7407.7	7441.2	7621.5	7852.0	8042.8	8038.6	7831.1	7458.0	7032.4	6877.3	6864.8
40°	7975.7	8011.3	8216.7	8428.5	8619.2	8602.4	8350.9	7933.8	7481.0	7307.0	7340.6
42.5°	8468.3	8508.1	8740.8	9042.6	9214.5	9210.3	8918.9	8449.4	7977.8	7822.7	7852.0
45°	8916.8	8952.5	9222.9	9568.7	9820.3	9851.7	9533.1	9036.3	8552.1	8353.0	8361.4
47.5°	9233.4	9300.4	9583.4	9979.6	10321.2	10432.3	10120.0	9633.7	9076.2	8868.6	8881.2
50°	9474.4	9516.3	9824.5	10275.1	10706.9	10937.5	10686.0	10187.1	9600.2	9380.1	9409.4
52.5°	9503.8	9554.1	9889.4	10409.3	10962.7	11312.7	11189.0	10727.9	10134.7	9908.3	9971.2
55°	9264.8	9294.1	9694.5	10325.4	11063.3	11591.5	11622.9	11231.0	10644.0	10472.2	10514.1
57.5°	8583.6	8659.0	9166.3	9933.5	10924.9	11740.3	11947.8	11687.9	11159.7	10989.9	11057.0
60°	7466.3	7541.8	8051.2	9023.8	10403.0	11671.1	12216.1	12092.5	11627.1	11490.9	11526.5
62.5°	5850.2	5844.0	6474.9	7667.6	9365.4	11331.6	12415.3	12482.3	12088.3	11916.4	11970.9
65°	3791.9	3810.7	4420.7	5705.6	7799.6	10468.0	12459.3	12979.1	12541.0	12281.1	12320.9
66°	3049.8	3106.4	3624.2	4808.5	7001.0	9902.0	12327.2	13125.8	12679.4	12364.9	12383.8
67.5°	2251.2	2240.7	2666.3	3580.2	5590.3	8826.7	11914.3	13218.1	12836.6	12440.4	12448.8
70°	1284.9	1282.8	1433.7	1966.2	3286.7	6215.0	10042.5	12775.8	13155.2	12712.9	12689.8
72.5°	939.1	932.8	953.7	1085.8	1603.5	3137.9	6927.6	11166.0	12991.7	12668.9	12603.9
75°	788.1	783.9	779.8	796.5	899.2	1421.2	3676.6	8032.3	11272.9	11891.2	11824.2
77.5°	643.5	643.5	645.6	641.4	645.6	748.3	1523.9	4305.4	6864.8	7663.4	7849.9
80°	503.1	501.0	536.6	521.9	488.4	480.0	674.9	1385.5	2278.5	2265.9	1869.7
82.5°	371.0	345.9	408.7	398.3	360.5	306.0	394.1	591.1	760.9	494.7	366.8
85°	234.8	232.7	289.3	264.1	220.1	144.6	188.6	253.6	314.4	190.7	155.1
87.5°	41.9	39.8	92.2	67.1	67.1	41.9	52.4	69.2	102.7	71.3	52.4
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)