

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: P459417

Luminaire Tested: **GALN-SA8D-735-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459417
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-SA8D-735-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 60039 lumens
Efficiency: N/A
Efficacy: 121.8 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

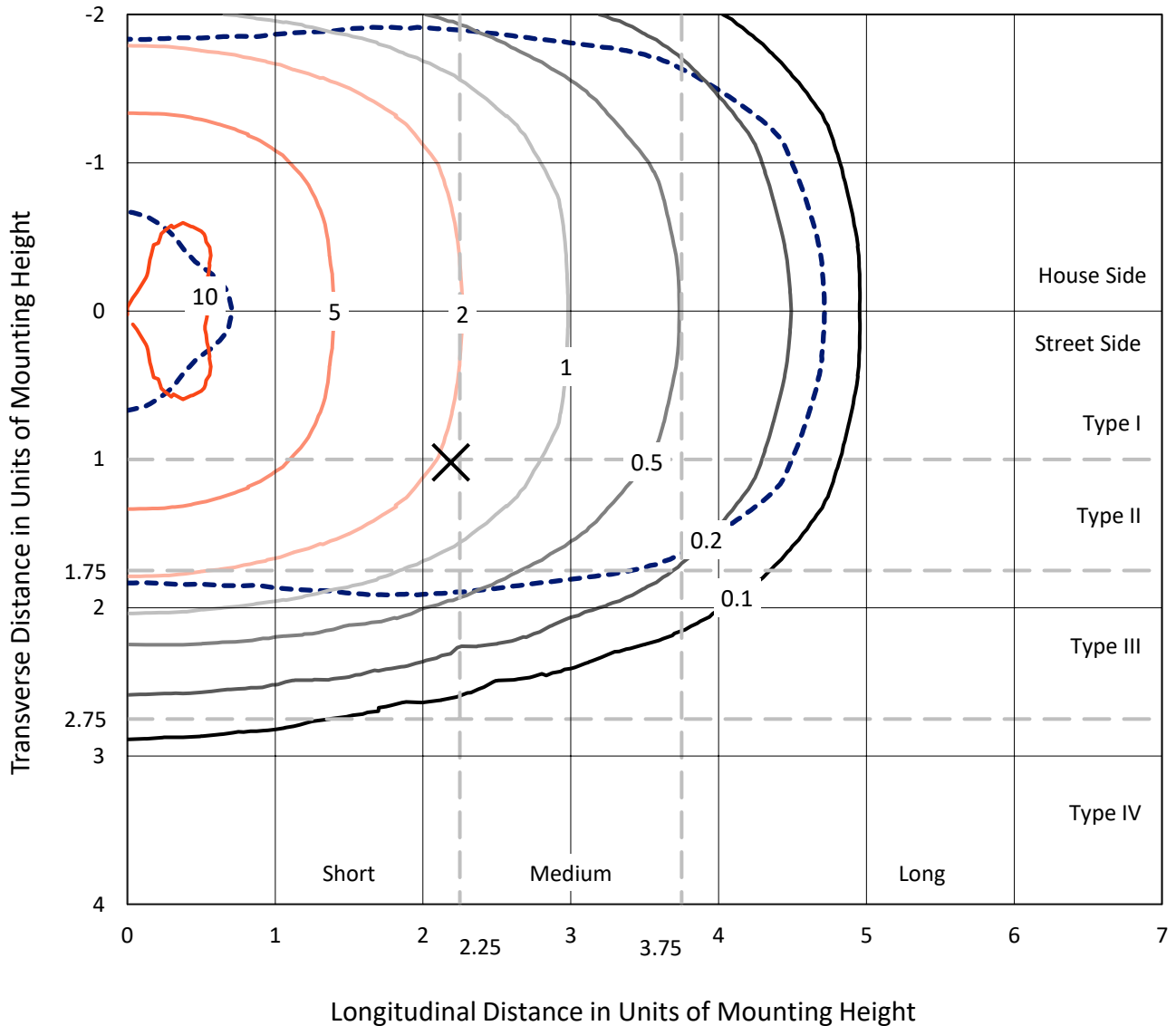
Input Watts (W): 493
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

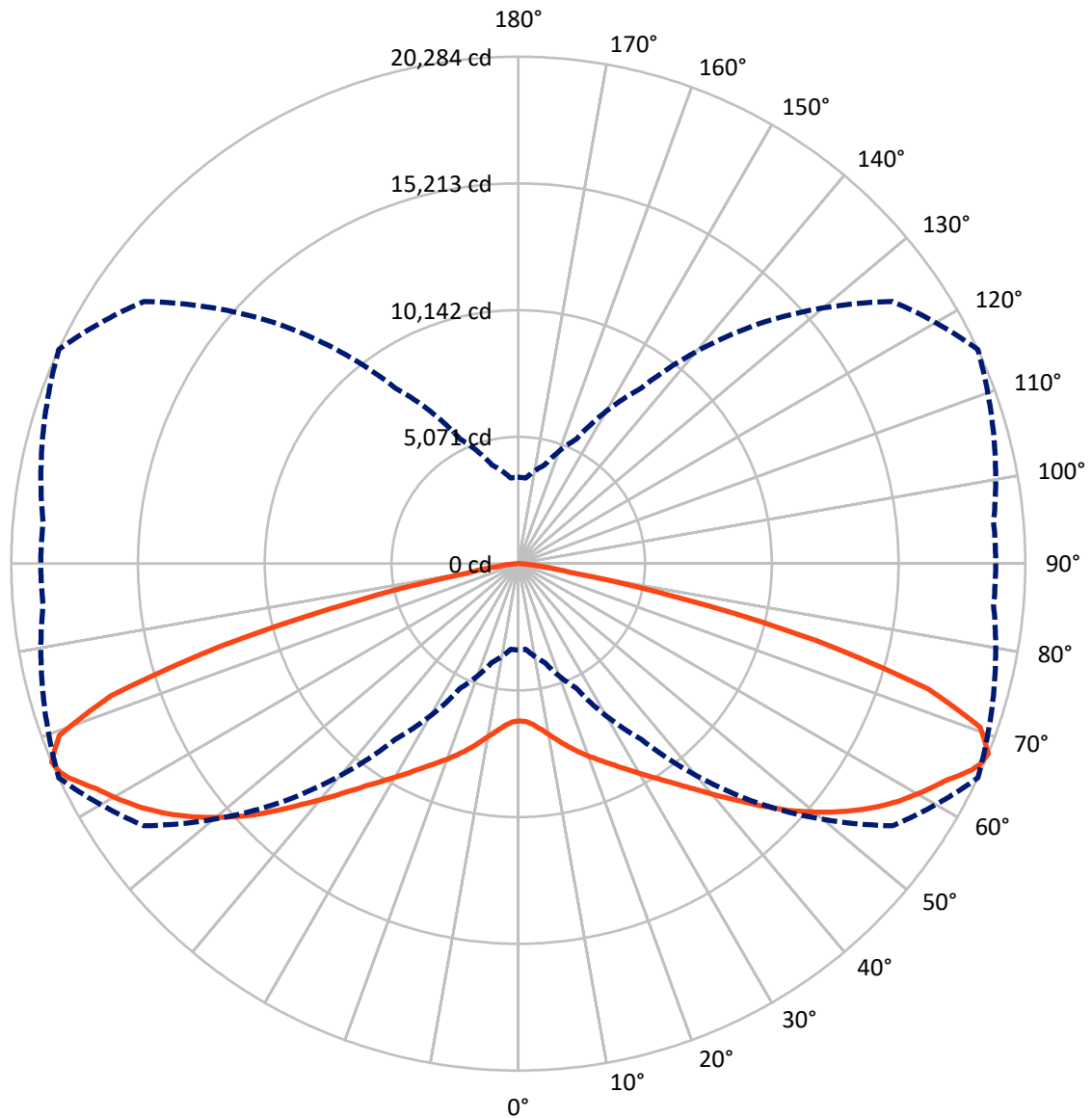
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 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	30019.5	0.0	30019.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	30019.5	0.0	30019.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	60039.0	0.0	60039.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	620.2	1.0
10°-20°	2075.8	3.5
20°-30°	4060.5	6.8
30°-40°	6906.3	11.5
40°-50°	10930.6	18.2
50°-60°	14493.8	24.1
60°-70°	13672.1	22.8
70°-80°	6758.8	11.3
80°-90°	520.9	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°	60039.0	100.0
0°-180°	60039.0	100.0



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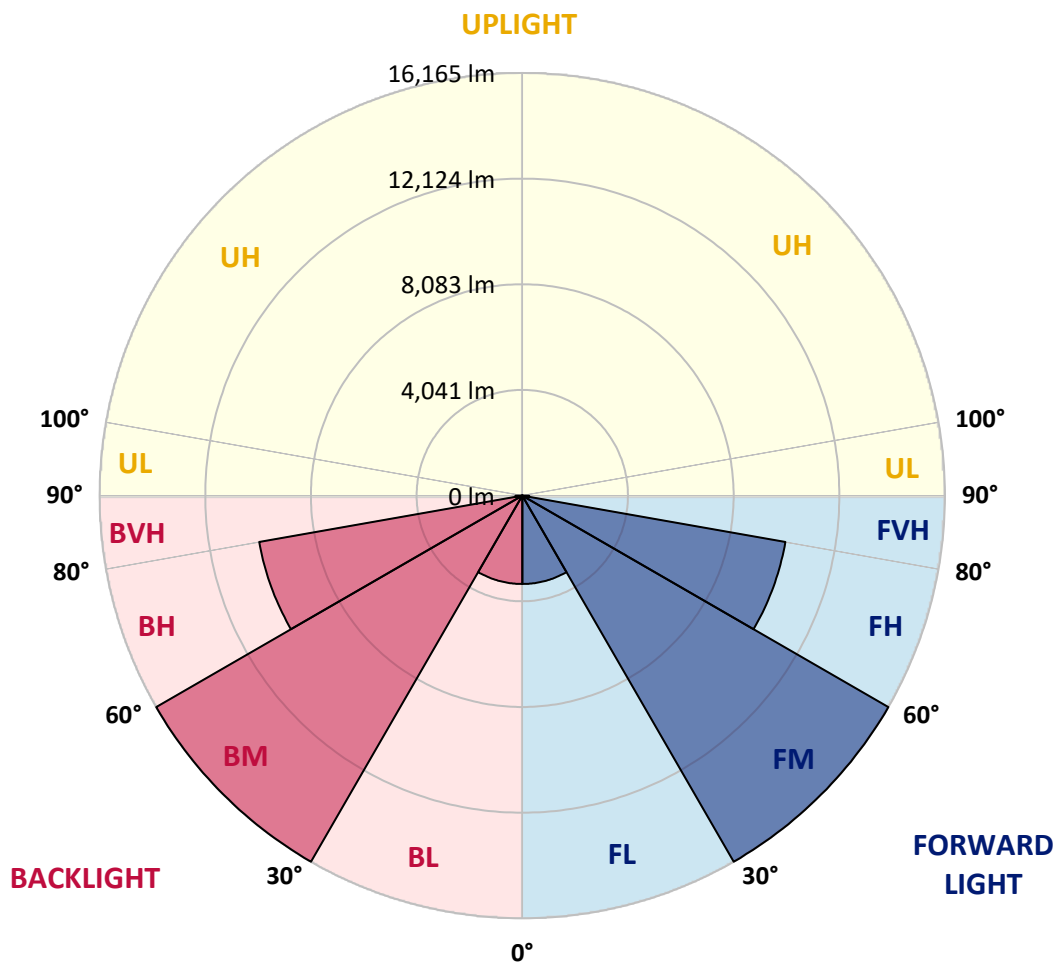
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3378.3	5.6			
FM	(30°-60°)	16165.4	26.9			
FH	(60°-80°)	10215.4	17.0			G4/12000
FVH	(80°-90°)	260.4	0.4			G3/500
BL	(0°-30°)	3378.3	5.6	B4/5000		
BM	(30°-60°)	16165.4	26.9	B5		
BH	(60°-80°)	10215.4	17.0	B5		G5
BVH	(80°-90°)	260.4	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6288.6	6288.6	6288.6	6288.6	6288.6	6288.6	6288.6	6288.6	6288.6	6288.6	6288.6
2.5°	6256.4	6262.8	6269.3	6278.9	6291.8	6311.1	6323.9	6333.6	6359.3	6362.5	6359.3
5°	6233.9	6240.3	6256.4	6285.3	6327.2	6385.1	6430.1	6484.8	6526.6	6555.5	6549.1
7.5°	6230.7	6243.5	6269.3	6330.4	6410.8	6510.5	6613.4	6706.7	6787.1	6851.5	6841.8
10°	6282.1	6298.2	6340.0	6430.1	6555.5	6700.3	6845.0	6983.4	7099.2	7182.8	7211.7
12.5°	6369.0	6381.8	6459.0	6594.1	6774.3	6954.4	7118.5	7288.9	7449.8	7591.3	7591.3
15°	6520.2	6542.7	6639.2	6835.4	7057.3	7266.4	7433.7	7613.8	7787.5	7948.3	7996.6
17.5°	6729.2	6761.4	6906.2	7157.1	7440.1	7633.1	7790.7	7938.7	8089.9	8244.3	8266.8
20°	7015.5	7047.7	7240.7	7543.1	7877.6	8109.2	8215.3	8250.7	8324.7	8472.7	8492.0
22.5°	7404.7	7436.9	7652.4	7993.4	8366.5	8617.4	8662.4	8578.8	8559.5	8675.3	8688.2
25°	7845.4	7874.4	8122.0	8488.7	8874.7	9148.2	9135.3	8929.4	8813.6	8884.4	8903.7
27.5°	8340.8	8382.6	8633.5	9013.1	9431.2	9672.5	9633.9	9334.7	9087.0	9074.2	9080.6
30°	8974.5	9019.5	9257.5	9621.0	10032.7	10254.7	10174.3	9772.2	9389.4	9260.7	9260.7
32.5°	9643.5	9756.1	9997.4	10376.9	10698.6	10859.4	10737.2	10254.7	9746.5	9566.3	9556.7
35°	10515.2	10576.4	10814.4	11184.3	11425.5	11551.0	11316.2	10798.3	10212.9	10000.6	9971.6
37.5°	11367.6	11419.1	11695.7	12049.6	12342.3	12335.9	12017.4	11444.8	10791.9	10553.8	10534.5
40°	12239.4	12294.0	12609.3	12934.2	13226.9	13201.1	12815.1	12175.0	11480.2	11213.3	11264.7
42.5°	12995.3	13056.4	13413.4	13876.6	14140.4	14134.0	13686.9	12966.3	12242.6	12004.5	12049.6
45°	13683.6	13738.3	14153.3	14684.0	15070.0	15118.3	14629.3	13867.0	13123.9	12818.4	12831.2
47.5°	14169.4	14272.3	14706.5	15314.5	15838.8	16009.3	15530.0	14783.7	13928.1	13609.7	13629.0
50°	14539.3	14603.6	15076.5	15768.0	16430.7	16784.5	16398.5	15632.9	14732.3	14394.5	14439.6
52.5°	14584.3	14661.5	15176.2	15973.9	16823.1	17360.3	17170.5	16462.8	15552.5	15205.1	15301.6
55°	14217.6	14262.6	14877.0	15845.2	16977.5	17788.1	17836.3	17234.8	16334.2	16070.4	16134.7
57.5°	13172.2	13288.0	14066.4	15243.7	16765.2	18016.5	18334.9	17936.1	17125.5	16864.9	16967.8
60°	11457.7	11573.5	12355.2	13847.7	15964.2	17910.3	18746.7	18556.9	17842.8	17633.7	17688.4
62.5°	8977.7	8968.0	9936.2	11766.5	14372.0	17389.2	19052.2	19155.2	18550.4	18286.7	18370.3
65°	5818.9	5847.9	6783.9	8755.7	11969.2	16064.0	19119.8	19917.5	19245.2	18846.4	18907.5
66°	4680.2	4767.1	5561.6	7379.0	10743.6	15195.5	18917.1	20142.7	19457.5	18975.0	19004.0
67.5°	3454.7	3438.6	4091.6	5494.0	8578.8	13545.3	18283.5	20284.2	19698.8	19090.8	19103.7
70°	1971.8	1968.6	2200.2	3017.2	5043.7	9537.4	15411.0	19605.5	20187.7	19509.0	19473.6
72.5°	1441.1	1431.4	1463.6	1666.2	2460.7	4815.3	10631.0	17135.1	19936.8	19441.4	19341.7
75°	1209.5	1203.0	1196.6	1222.3	1379.9	2180.9	5642.0	12326.2	17299.2	18248.1	18145.1
77.5°	987.5	987.5	990.7	984.3	990.7	1148.3	2338.5	6607.0	10534.5	11760.1	12046.4
80°	772.0	768.8	823.5	800.9	749.5	736.6	1035.8	2126.2	3496.5	3477.2	2869.3
82.5°	569.3	530.7	627.2	611.2	553.3	469.6	604.7	907.1	1167.6	759.1	562.9
85°	360.3	357.0	443.9	405.3	337.7	221.9	289.5	389.2	482.5	292.7	238.0
87.5°	64.3	61.1	141.5	102.9	102.9	64.3	80.4	106.1	157.6	109.4	80.4
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)