

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: P459533

Luminaire Tested: **GALN-SA9D-735-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459533
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-SA9D-735-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 67403 lumens
Efficiency: N/A
Efficacy: 122.1 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

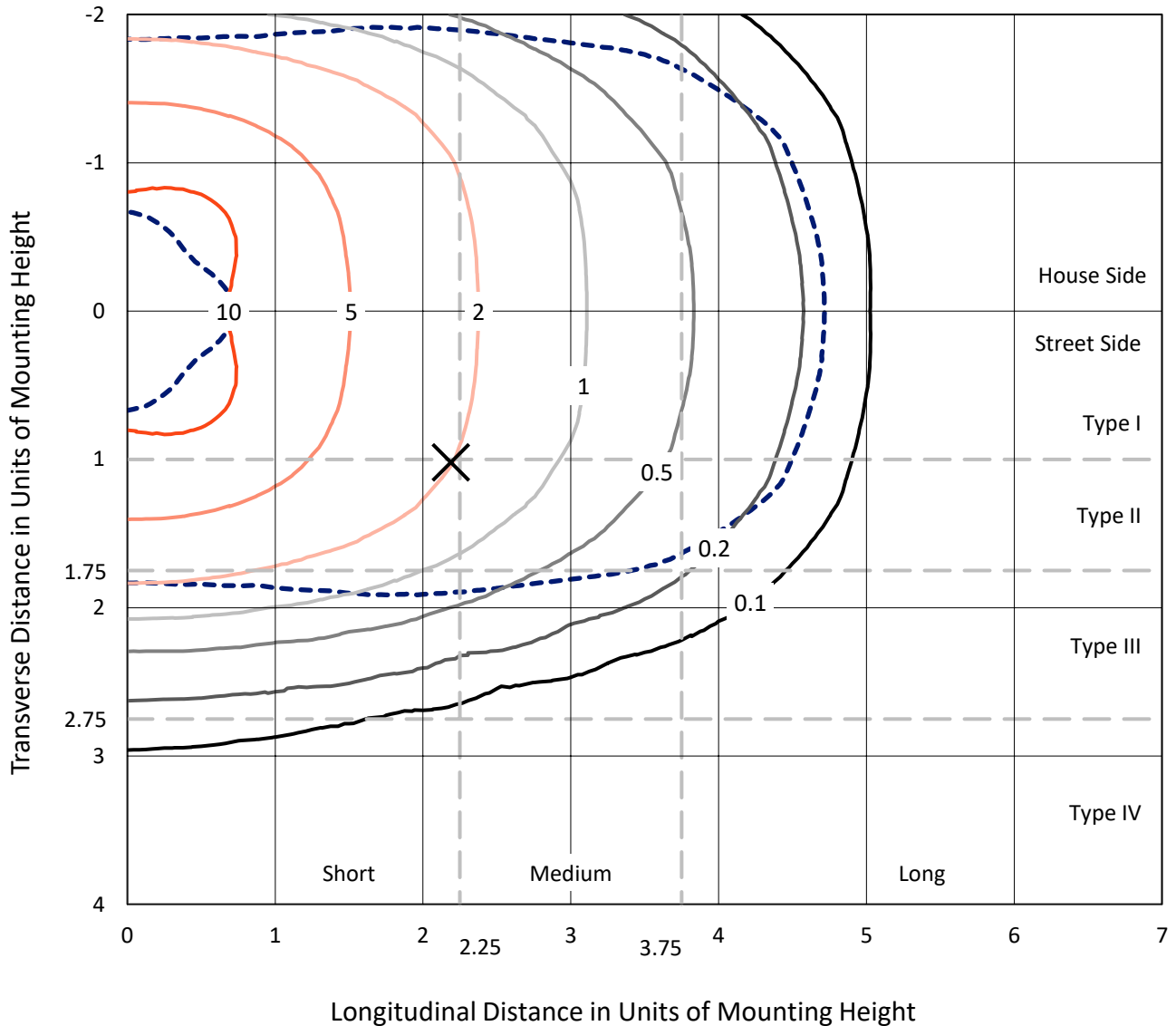
Input Watts (W): 552
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P459533
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Iso-Footcandle Lines of Horizontal Illumination

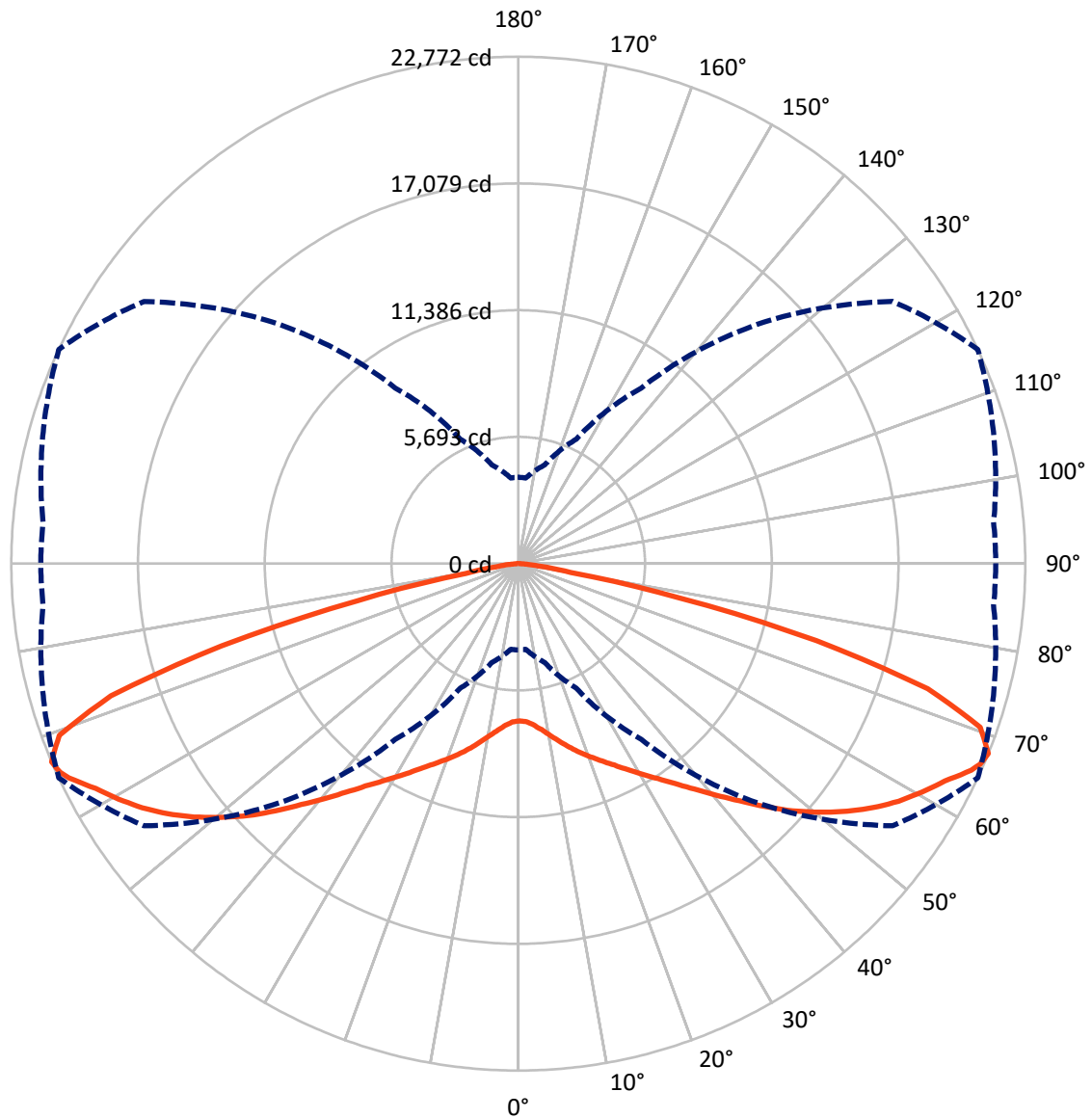
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 fc
 Type III - Short - N/A

REPORT NUMBER: P459533
CATALOG NUMBER: GALN-SA9D-735-U-RW

Luminous Intensity Polar Plot



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

REPORT NUMBER: P459533

CATALOG NUMBER: GALN-SA9D-735-U-RW

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	33701.5	0.0	33701.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	33701.5	0.0	33701.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	67403.0	0.0	67403.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	696.3	1.0
10°-20°	2330.4	3.5
20°-30°	4558.5	6.8
30°-40°	7753.4	11.5
40°-50°	12271.3	18.2
50°-60°	16271.5	24.1
60°-70°	15349.0	22.8
70°-80°	7587.8	11.3
80°-90°	584.8	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°	67403.0	100.0
0°-180°	67403.0	100.0

Coefficient of Utilization



REPORT NUMBER: P459533

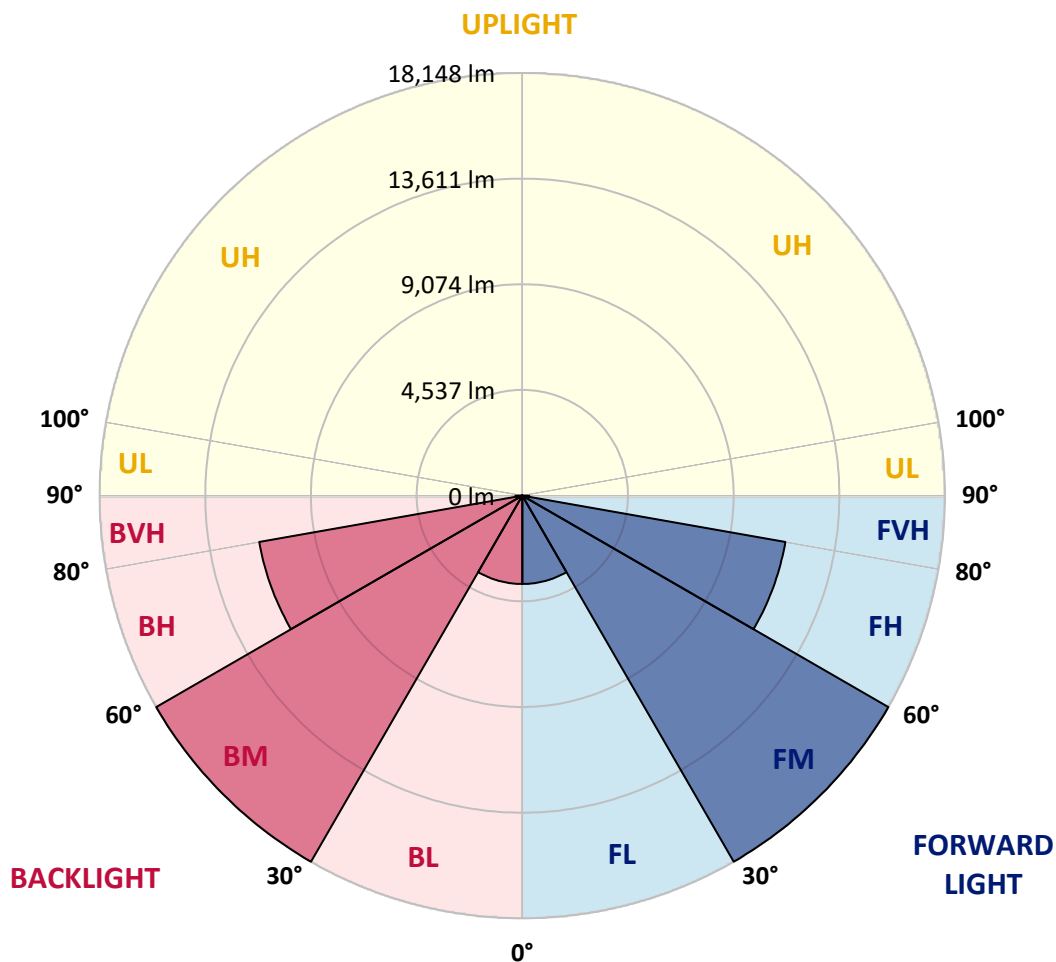
CATALOG NUMBER: GALN-SA9D-735-U-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3792.6	5.6			
FM	(30°-60°)	18148.1	26.9			
FH	(60°-80°)	11468.4	17.0			G4/12000
FVH	(80°-90°)	292.4	0.4			G3/500
BL	(0°-30°)	3792.6	5.6	B4/5000		
BM	(30°-60°)	18148.1	26.9	B5		
BH	(60°-80°)	11468.4	17.0	B5		G5
BVH	(80°-90°)	292.4	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°	7059.9	7059.9	7059.9	7059.9	7059.9	7059.9	7059.9	7059.9	7059.9	7059.9	7059.9
2.5°	7023.8	7031.0	7038.2	7049.0	7063.5	7085.1	7099.6	7110.4	7139.3	7142.9	7139.3
5°	6998.5	7005.7	7023.8	7056.3	7103.2	7168.2	7218.8	7280.2	7327.1	7359.6	7352.4
7.5°	6994.9	7009.3	7038.2	7106.8	7197.1	7309.0	7424.6	7529.3	7619.6	7691.8	7681.0
10°	7052.6	7070.7	7117.6	7218.8	7359.6	7522.1	7684.6	7839.9	7969.9	8063.8	8096.3
12.5°	7150.1	7164.6	7251.3	7402.9	7605.2	7807.4	7991.6	8182.9	8363.5	8522.4	8522.4
15°	7319.9	7345.2	7453.5	7673.8	7922.9	8157.7	8345.5	8547.7	8742.7	8923.2	8977.4
17.5°	7554.6	7590.7	7753.2	8034.9	8352.7	8569.3	8746.3	8912.4	9082.1	9255.5	9280.7
20°	7876.0	7912.1	8128.8	8468.2	8843.8	9103.8	9223.0	9262.7	9345.8	9511.9	9533.5
22.5°	8313.0	8349.1	8591.0	8973.8	9392.7	9674.4	9724.9	9631.0	9609.4	9739.4	9753.8
25°	8807.7	8840.2	9118.2	9529.9	9963.3	10270.2	10255.8	10024.7	9894.7	9974.1	9995.8
27.5°	9363.8	9410.8	9692.4	10118.5	10588.0	10858.8	10815.5	10479.7	10201.6	10187.2	10194.4
30°	10075.2	10125.8	10393.0	10801.1	11263.3	11512.5	11422.2	10970.8	10541.1	10396.6	10396.6
32.5°	10826.3	10952.7	11223.6	11649.7	12010.8	12191.4	12054.1	11512.5	10941.9	10739.7	10728.8
35°	11805.0	11873.6	12140.8	12556.1	12826.9	12967.8	12704.2	12122.8	11465.5	11227.2	11194.7
37.5°	12761.9	12819.7	13130.3	13527.5	13856.1	13848.9	13491.4	12848.6	12115.5	11848.3	11826.6
40°	13740.6	13802.0	14155.9	14520.6	14849.2	14820.3	14387.0	13668.3	12888.3	12588.6	12646.4
42.5°	14589.2	14657.8	15058.6	15578.7	15874.8	15867.6	15365.6	14556.7	13744.2	13476.9	13527.5
45°	15362.0	15423.4	15889.2	16485.1	16918.4	16972.6	16423.7	15567.8	14733.6	14390.6	14405.0
47.5°	15907.3	16022.8	16510.3	17192.9	17781.5	17972.9	17434.8	16597.0	15636.4	15278.9	15300.6
50°	16322.6	16394.8	16925.6	17702.0	18445.9	18843.2	18409.8	17550.4	16539.2	16160.1	16210.6
52.5°	16373.1	16459.8	17037.6	17933.2	18886.5	19489.6	19276.5	18482.1	17460.1	17070.1	17178.4
55°	15961.4	16012.0	16701.7	17788.7	19059.8	19969.9	20024.0	19348.7	18337.6	18041.5	18113.7
57.5°	14787.8	14917.8	15791.7	17113.4	18821.5	20226.3	20583.8	20136.0	19226.0	18933.5	19049.0
60°	12863.0	12993.0	13870.6	15546.2	17922.3	20107.1	21046.0	20832.9	20031.3	19796.5	19857.9
62.5°	10078.8	10068.0	11155.0	13209.7	16134.8	19522.1	21389.1	21504.6	20825.7	20529.6	20623.5
65°	6532.6	6565.1	7616.0	9829.6	13437.2	18034.3	21464.9	22360.5	21605.7	21157.9	21226.6
66°	5254.3	5351.8	6243.7	8284.1	12061.4	17059.2	21237.4	22613.3	21844.1	21302.4	21334.9
67.5°	3878.4	3860.4	4593.4	6167.9	9631.0	15206.7	20526.0	22772.1	22114.9	21432.4	21446.8
70°	2213.7	2210.0	2470.1	3387.3	5662.3	10707.2	17301.2	22010.2	22663.8	21901.8	21862.1
72.5°	1617.8	1607.0	1643.1	1870.6	2762.6	5405.9	11935.0	19236.8	22382.1	21826.0	21714.1
75°	1357.8	1350.6	1343.4	1372.3	1549.2	2448.4	6334.0	13838.1	19421.0	20486.3	20370.7
77.5°	1108.6	1108.6	1112.2	1105.0	1112.2	1289.2	2625.3	7417.4	11826.6	13202.5	13523.9
80°	866.7	863.1	924.5	899.2	841.4	827.0	1162.8	2387.0	3925.4	3903.7	3221.2
82.5°	639.2	595.8	704.2	686.1	621.1	527.2	678.9	1018.4	1310.9	852.2	632.0
85°	404.5	400.8	498.3	455.0	379.2	249.2	325.0	437.0	541.7	328.6	267.2
87.5°	72.2	68.6	158.9	115.6	115.6	72.2	90.3	119.2	176.9	122.8	90.3
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)