

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: P459388

Luminaire Tested: **GALN-SA8C-735-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459388
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-735-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 54563 lumens
Efficiency: N/A
Efficacy: 127.2 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

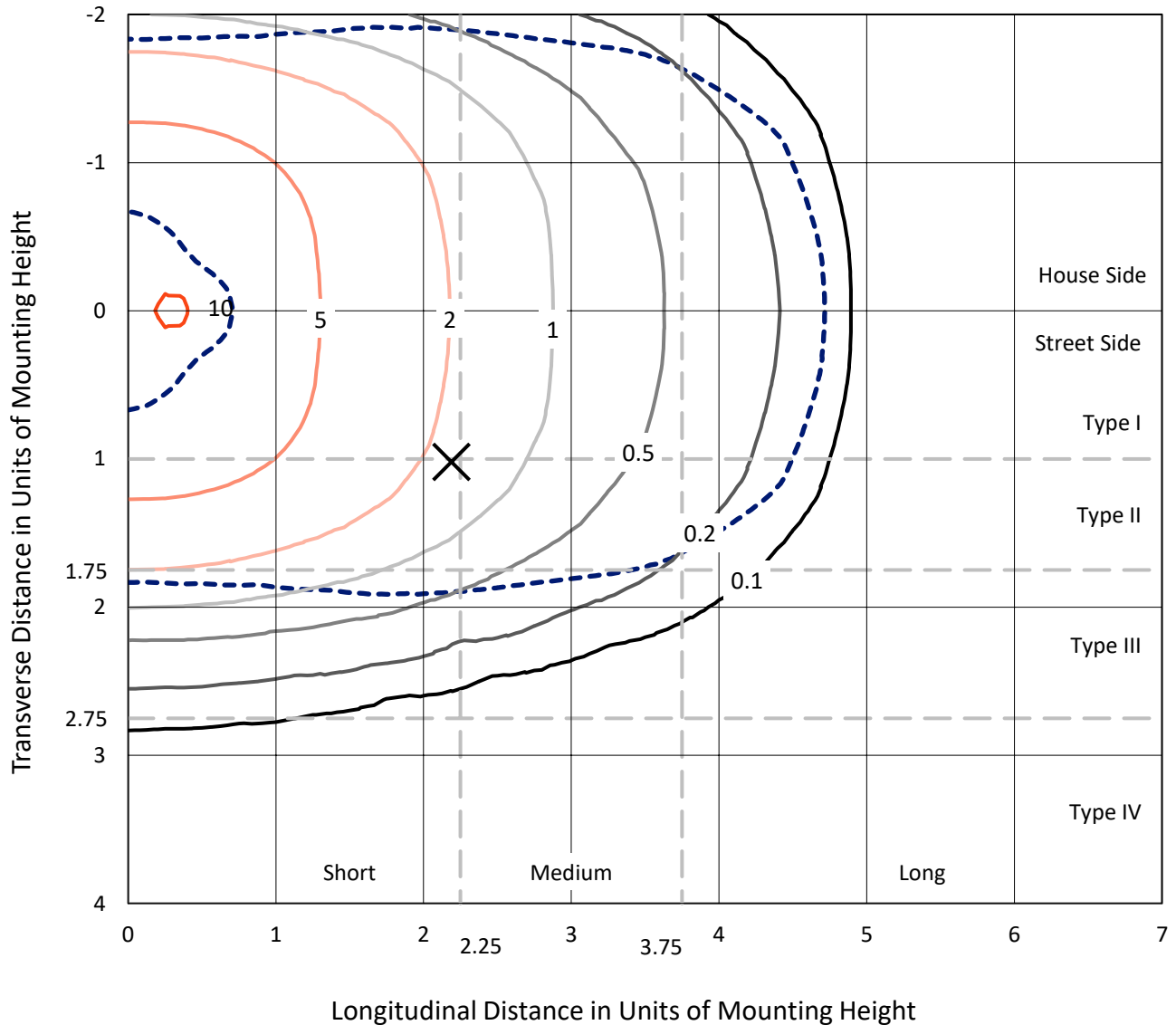
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P459388
 CATALOG NUMBER: GALN-SA8C-735-U-RW

Iso-Footcandle Lines of Horizontal Illumination

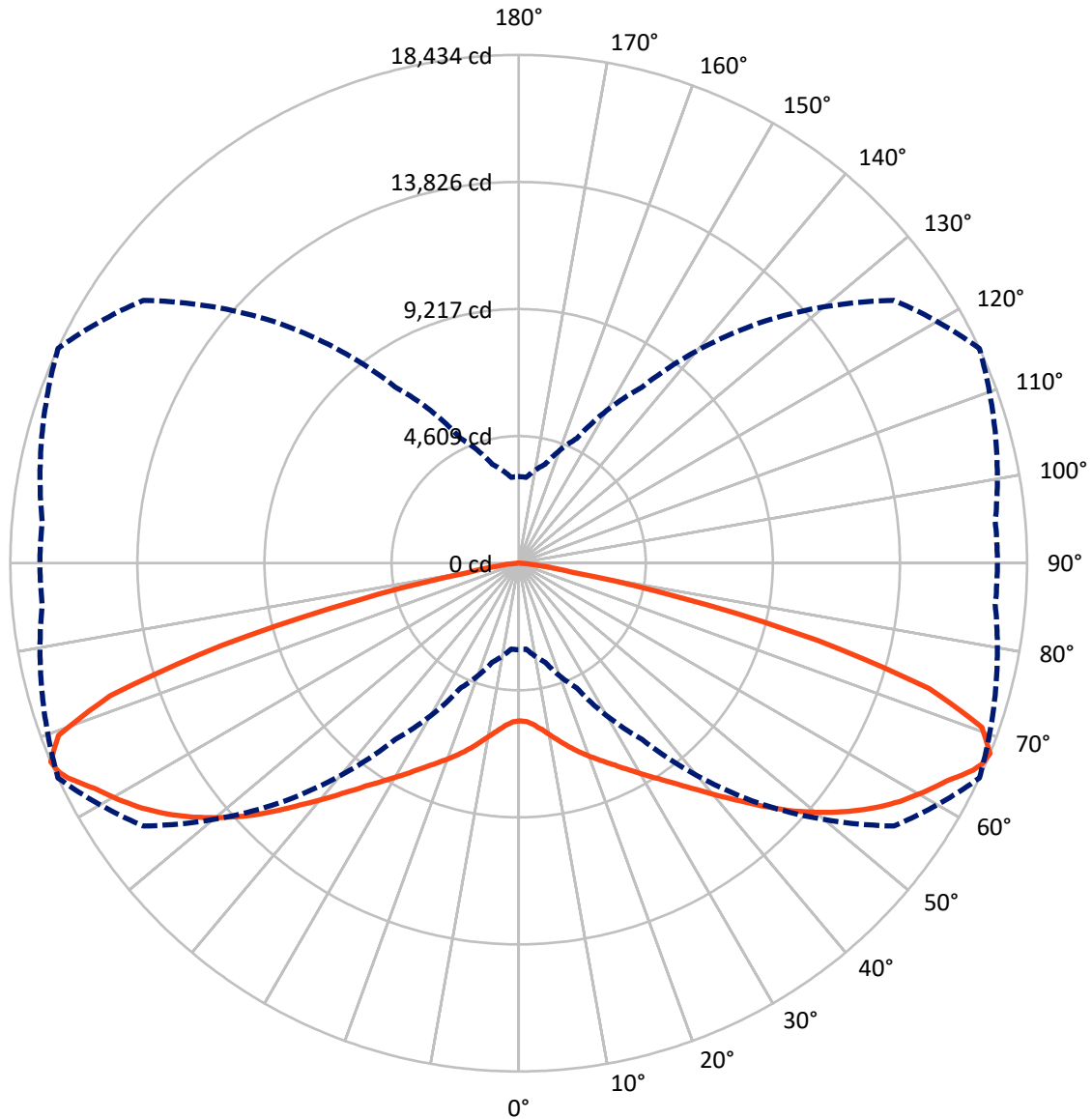
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 fc
 Type III - Short - N/A

REPORT NUMBER: P459388
CATALOG NUMBER: GALN-SA8C-735-U-RW

Luminous Intensity Polar Plot



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

REPORT NUMBER: P459388

CATALOG NUMBER: GALN-SA8C-735-U-RW

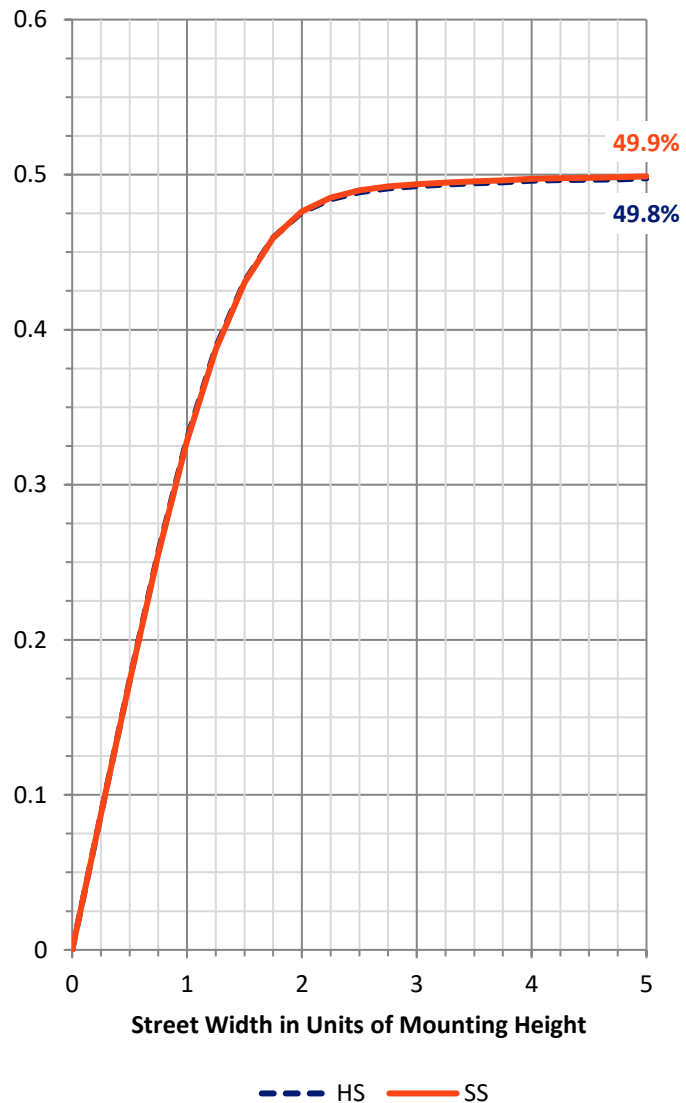
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	27281.5	0.0	27281.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	27281.5	0.0	27281.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	54563.0	0.0	54563.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	563.7	1.0
10°-20°	1886.5	3.5
20°-30°	3690.1	6.8
30°-40°	6276.4	11.5
40°-50°	9933.7	18.2
50°-60°	13171.8	24.1
60°-70°	12425.1	22.8
70°-80°	6142.4	11.3
80°-90°	473.4	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°	54563.0	100.0
0°-180°	54563.0	100.0



REPORT NUMBER: P459388

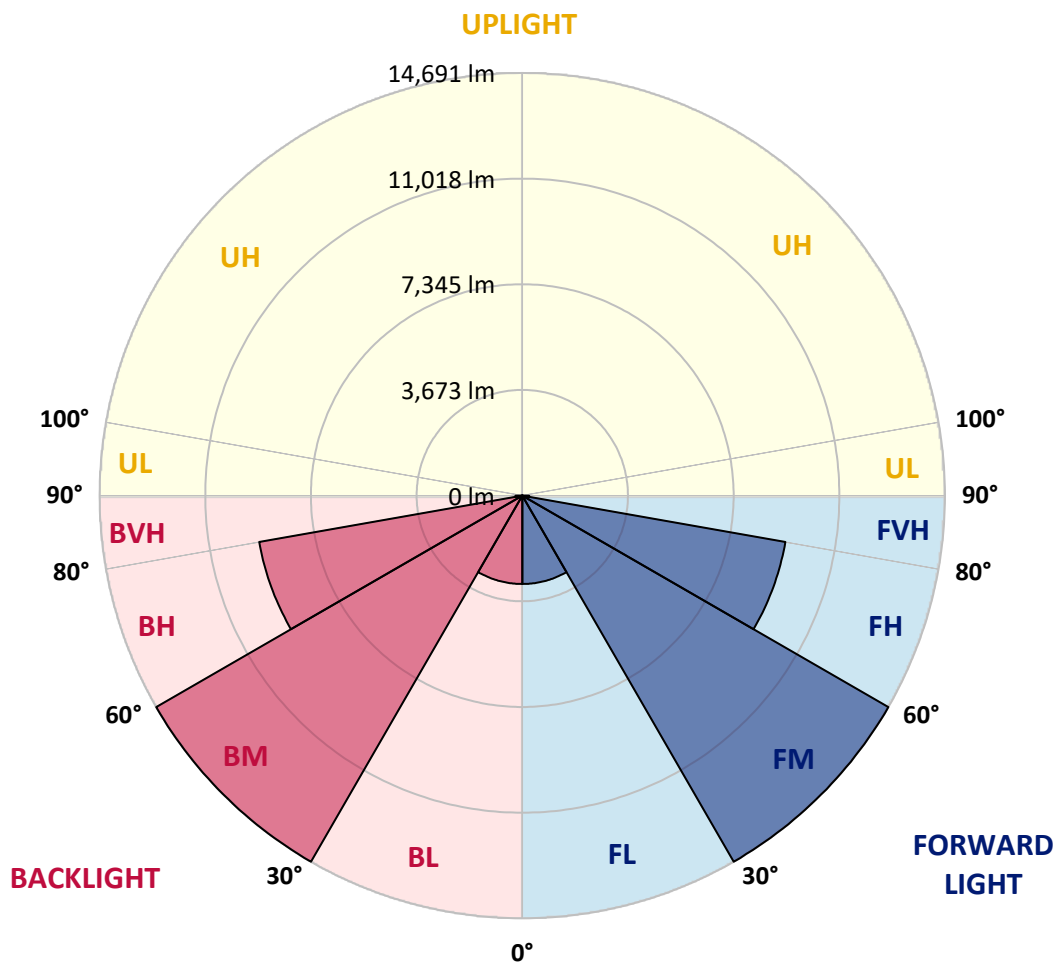
CATALOG NUMBER: GALN-SA8C-735-U-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3070.1	5.6			
FM	(30°-60°)	14691.0	26.9			
FH	(60°-80°)	9283.7	17.0			G4/12000
FVH	(80°-90°)	236.7	0.4			G3/500
BL	(0°-30°)	3070.1	5.6	B4/5000		
BM	(30°-60°)	14691.0	26.9	B5		
BH	(60°-80°)	9283.7	17.0	B5		G5
BVH	(80°-90°)	236.7	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: P459388

CATALOG NUMBER: GALN-SA8C-735-U-RW

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5715.0	5715.0	5715.0	5715.0	5715.0	5715.0	5715.0	5715.0	5715.0	5715.0	5715.0
2.5°	5685.8	5691.6	5697.5	5706.2	5717.9	5735.5	5747.1	5755.9	5779.3	5782.2	5779.3
5°	5665.3	5671.1	5685.8	5712.1	5750.1	5802.7	5843.6	5893.3	5931.3	5957.6	5951.8
7.5°	5662.4	5674.1	5697.5	5753.0	5826.1	5916.7	6010.2	6095.0	6168.1	6226.6	6217.8
10°	5709.1	5723.8	5761.8	5843.6	5957.6	6089.2	6220.7	6346.4	6451.7	6527.7	6554.0
12.5°	5788.1	5799.8	5869.9	5992.7	6156.4	6320.1	6469.2	6624.1	6770.3	6898.9	6898.9
15°	5925.5	5945.9	6033.6	6211.9	6413.7	6603.7	6755.7	6919.4	7077.2	7223.4	7267.2
17.5°	6115.5	6144.7	6276.3	6504.3	6761.5	6936.9	7080.2	7214.6	7352.0	7492.3	7512.8
20°	6375.7	6404.9	6580.3	6855.1	7159.1	7369.6	7466.0	7498.2	7565.4	7699.9	7717.4
22.5°	6729.4	6758.6	6954.5	7264.3	7603.4	7831.4	7872.4	7796.4	7778.8	7884.1	7895.8
25°	7129.9	7156.2	7381.3	7714.5	8065.3	8313.8	8302.1	8115.0	8009.8	8074.1	8091.6
27.5°	7580.0	7618.0	7846.1	8191.0	8571.0	8790.3	8755.2	8483.3	8258.2	8246.5	8252.4
30°	8155.9	8196.8	8413.2	8743.5	9117.7	9319.4	9246.3	8880.9	8533.0	8416.1	8416.1
32.5°	8764.0	8866.3	9085.5	9430.5	9722.8	9869.0	9757.9	9319.4	8857.5	8693.8	8685.0
35°	9556.2	9611.7	9828.0	10164.2	10383.5	10497.5	10284.1	9813.4	9281.4	9088.4	9062.1
37.5°	10330.8	10377.6	10629.0	10950.6	11216.6	11210.7	10921.3	10401.0	9807.6	9591.2	9573.7
40°	11123.0	11172.7	11459.2	11754.5	12020.5	11997.1	11646.3	11064.6	10433.2	10190.5	10237.3
42.5°	11810.0	11865.6	12190.0	12611.0	12850.7	12844.8	12438.5	11783.7	11126.0	10909.6	10950.6
45°	12435.6	12485.3	12862.4	13344.7	13695.5	13739.4	13295.0	12602.2	11926.9	11649.2	11660.9
47.5°	12877.0	12970.5	13365.2	13917.7	14394.2	14549.1	14113.5	13435.3	12657.8	12368.4	12385.9
50°	13213.2	13271.6	13701.4	14329.9	14932.1	15253.6	14902.8	14207.1	13388.6	13081.6	13122.6
52.5°	13254.1	13324.3	13792.0	14517.0	15288.7	15776.9	15604.4	14961.3	14134.0	13818.3	13906.0
55°	12920.9	12961.8	13520.1	14400.0	15429.0	16165.7	16209.5	15662.9	14844.4	14604.7	14663.1
57.5°	11970.8	12076.0	12783.5	13853.4	15236.1	16373.2	16662.6	16300.2	15563.5	15326.7	15420.2
60°	10412.7	10517.9	11228.3	12584.7	14508.2	16276.8	17036.8	16864.3	16215.4	16025.4	16075.1
62.5°	8158.8	8150.1	9030.0	10693.3	13061.2	15803.2	17314.5	17408.1	16858.5	16618.8	16694.8
65°	5288.2	5314.5	6165.2	7957.1	10877.5	14598.8	17375.9	18100.9	17489.9	17127.4	17183.0
66°	4253.4	4332.3	5054.3	6706.0	9763.7	13809.5	17191.8	18305.5	17682.9	17244.4	17270.7
67.5°	3139.6	3125.0	3718.4	4992.9	7796.4	12309.9	16615.9	18434.1	17902.1	17349.6	17361.3
70°	1792.0	1789.0	1999.5	2742.0	4583.7	8667.5	14005.4	17817.3	18346.4	17729.6	17697.5
72.5°	1309.6	1300.9	1330.1	1514.3	2236.3	4376.1	9661.4	15572.3	18118.4	17668.2	17577.6
75°	1099.1	1093.3	1087.5	1110.8	1254.1	1982.0	5127.4	11202.0	15721.3	16583.7	16490.2
77.5°	897.4	897.4	900.4	894.5	900.4	1043.6	2125.2	6004.4	9573.7	10687.5	10947.6
80°	701.6	698.7	748.4	727.9	681.1	669.4	941.3	1932.3	3177.6	3160.1	2607.6
82.5°	517.4	482.3	570.0	555.4	502.8	426.8	549.6	824.4	1061.1	689.9	511.6
85°	327.4	324.5	403.4	368.3	306.9	201.7	263.1	353.7	438.5	266.0	216.3
87.5°	58.5	55.5	128.6	93.5	93.5	58.5	73.1	96.5	143.2	99.4	73.1
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)