

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: P459499

Luminaire Tested: **GALN-SA9C-735-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459499
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9C-735-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 62270 lumens
Efficiency: N/A
Efficacy: 129.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

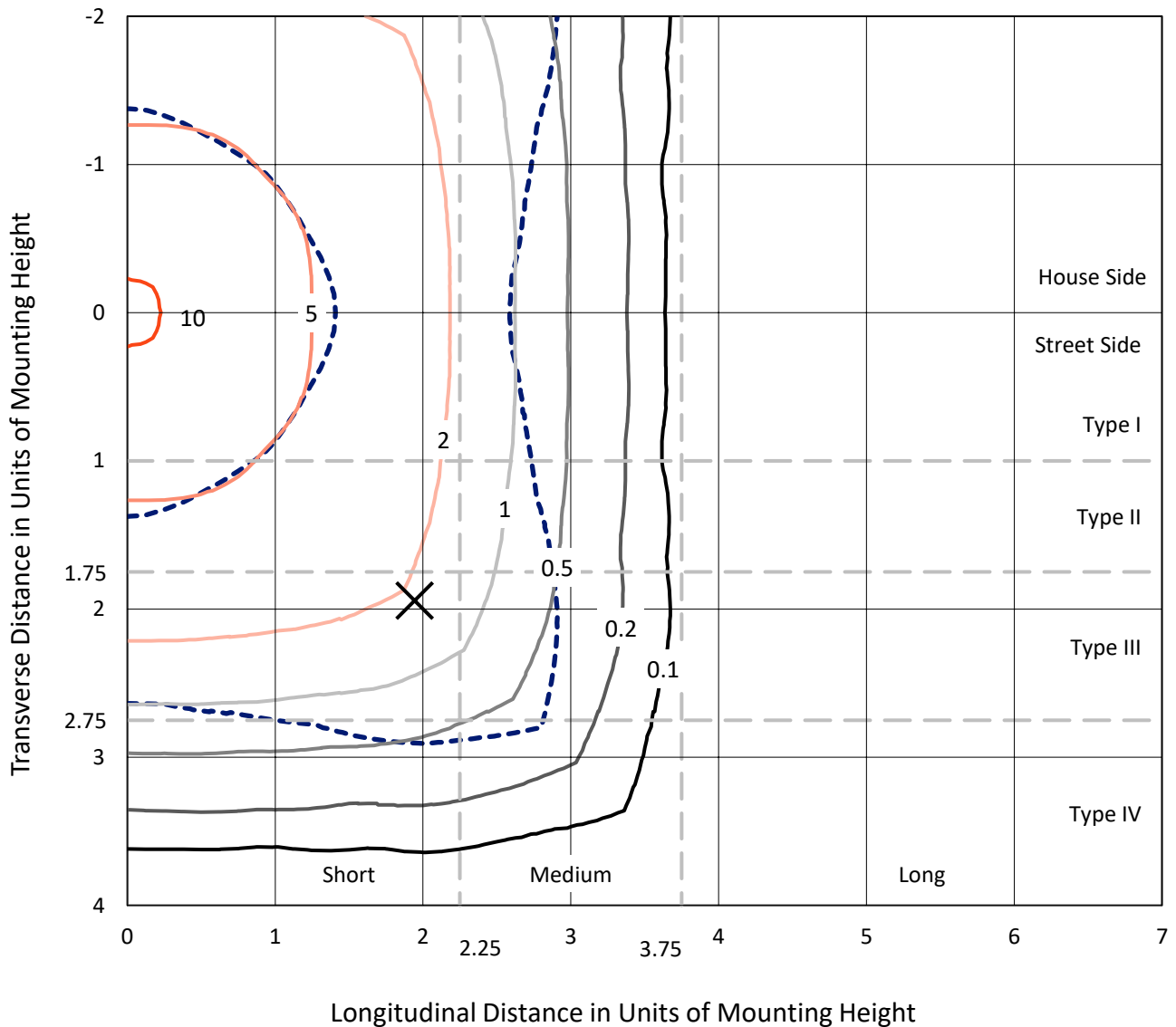
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

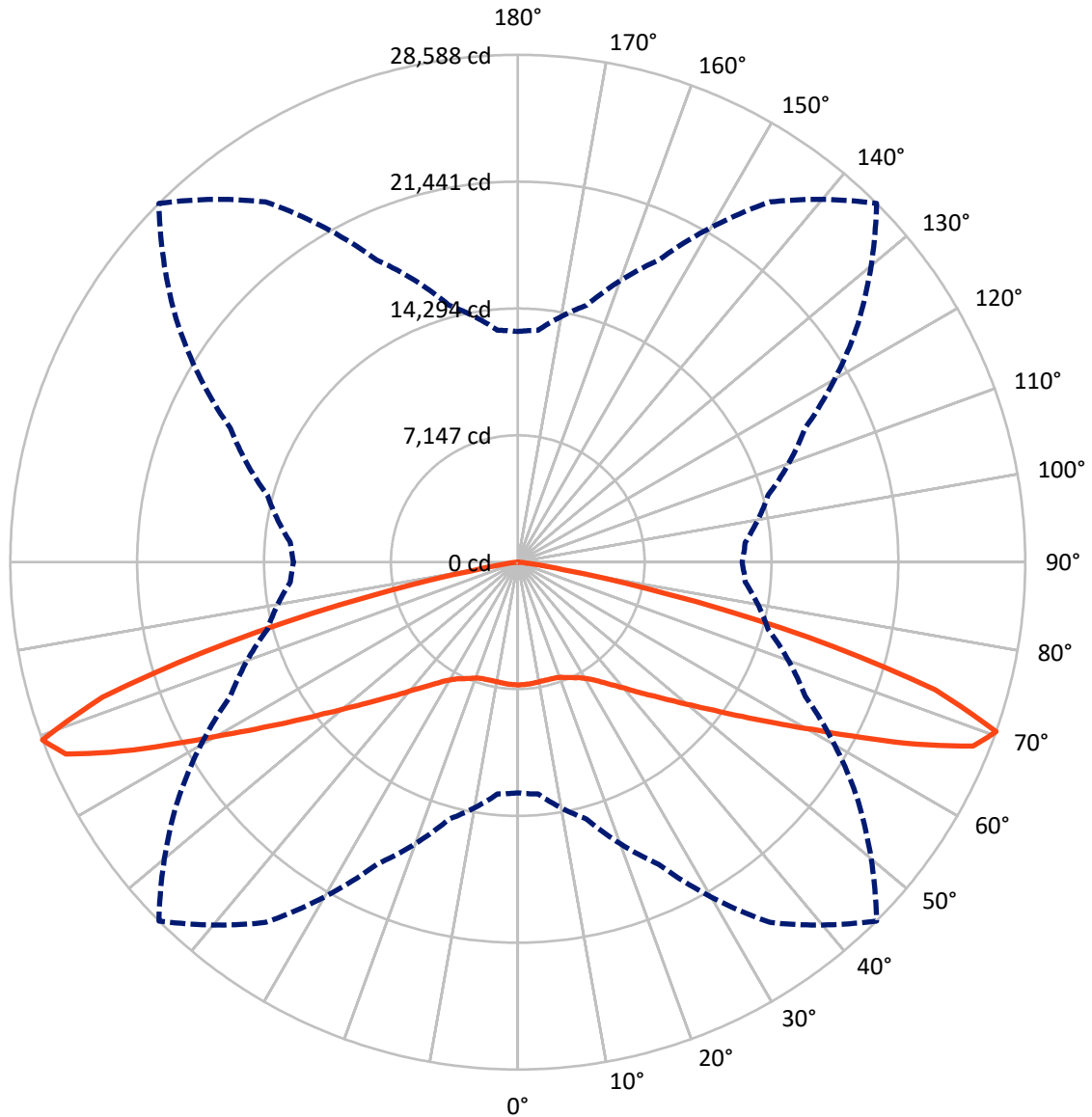
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	31135.0	0.0	31135.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	31135.0	0.0	31135.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	62270.0	0.0	62270.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	655.7	1.1
10°-20°	1924.2	3.1
20°-30°	3290.9	5.3
30°-40°	5223.4	8.4
40°-50°	8426.7	13.5
50°-60°	13710.4	22.0
60°-70°	19875.1	31.9
70°-80°	8815.9	14.2
80°-90°	347.7	0.6
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°	62270.0	100.0
0°-180°	62270.0	100.0



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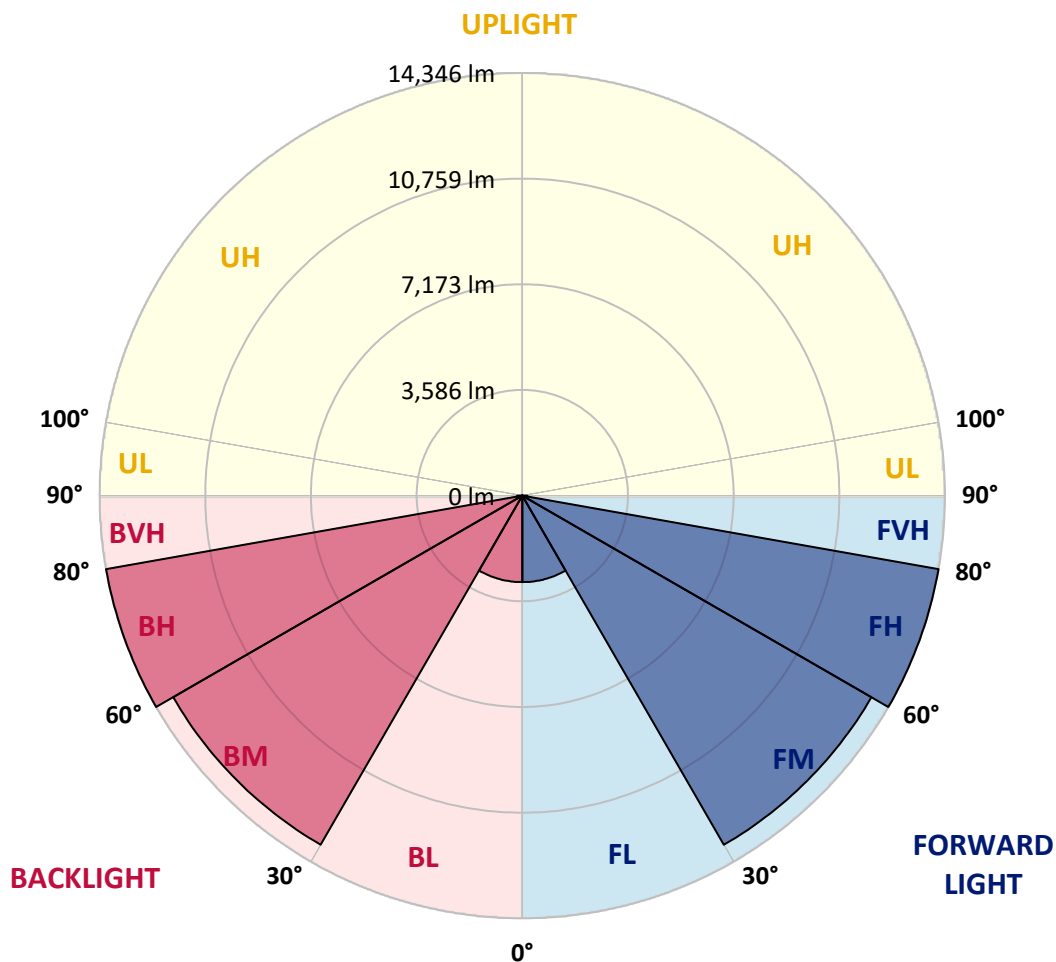
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2935.4	4.7			
FM	(30°-60°)	13680.2	22.0			
FH	(60°-80°)	14345.5	23.0			G5
FVH	(80°-90°)	173.9	0.3			G2/225
BL	(0°-30°)	2935.4	4.7	B4/5000		
BM	(30°-60°)	13680.2	22.0	B5		
BH	(60°-80°)	14345.5	23.0	B5		G5
BVH	(80°-90°)	173.9	0.3			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 V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6914.8	6914.8	6914.8	6914.8	6914.8	6914.8	6914.8	6914.8	6914.8	6914.8	6914.8
2.5°	6914.8	6921.4	6911.5	6904.9	6901.7	6901.7	6898.4	6901.7	6921.4	6924.6	6914.8
5°	6895.1	6901.7	6898.4	6891.8	6888.5	6888.5	6885.3	6882.0	6898.4	6904.9	6901.7
7.5°	6868.8	6872.1	6868.8	6865.6	6868.8	6865.6	6855.7	6849.2	6862.3	6862.3	6859.0
10°	6822.9	6829.5	6826.2	6829.5	6836.0	6836.0	6822.9	6809.8	6813.1	6806.5	6806.5
12.5°	6767.1	6777.0	6780.2	6793.4	6809.8	6829.5	6799.9	6770.4	6763.8	6760.5	6757.3
15°	6731.0	6740.9	6754.0	6767.1	6796.6	6839.3	6796.6	6750.7	6737.6	6724.4	6717.9
17.5°	6721.2	6734.3	6754.0	6773.7	6813.1	6855.7	6819.6	6773.7	6740.9	6721.2	6714.6
20°	6747.4	6757.3	6786.8	6822.9	6878.7	6921.4	6885.3	6836.0	6786.8	6757.3	6747.4
22.5°	6799.9	6816.3	6852.4	6918.1	6996.8	7059.2	7010.0	6927.9	6849.2	6809.8	6796.6
25°	6914.8	6927.9	6970.6	7059.2	7151.1	7210.2	7157.6	7062.5	6954.2	6901.7	6885.3
27.5°	7088.7	7108.4	7154.4	7259.4	7334.9	7367.7	7331.6	7265.9	7187.2	7131.4	7118.3
30°	7334.9	7357.8	7426.8	7538.3	7587.6	7607.3	7590.8	7548.2	7492.4	7433.3	7420.2
32.5°	7666.3	7679.5	7758.2	7863.2	7909.2	7915.7	7896.1	7876.4	7784.5	7686.0	7679.5
35°	8037.2	8060.1	8155.3	8280.0	8322.7	8326.0	8286.6	8257.1	8148.8	8070.0	8070.0
37.5°	8529.4	8539.3	8631.2	8772.3	8818.2	8805.1	8785.4	8759.2	8644.3	8542.6	8545.9
40°	9107.0	9126.7	9205.5	9369.6	9369.6	9353.2	9366.3	9346.6	9231.8	9133.3	9136.6
42.5°	9792.9	9802.8	9898.0	10071.9	10058.8	10026.0	10039.1	10012.8	9940.6	9829.0	9789.7
45°	10524.8	10564.2	10728.3	10895.6	10869.4	10764.4	10816.9	10810.3	10744.7	10577.3	10587.1
47.5°	11407.6	11473.2	11630.8	11831.0	11801.4	11637.3	11696.4	11735.8	11643.9	11460.1	11427.3
50°	12402.0	12444.7	12677.7	12864.7	12838.5	12664.5	12799.1	12805.7	12575.9	12316.7	12316.7
52.5°	13462.0	13504.7	13819.7	14111.8	14128.2	13875.5	13983.8	13977.3	13603.1	13261.8	13196.2
55°	14650.0	14669.7	15076.7	15506.6	15598.5	15352.3	15365.5	15234.2	14748.5	14351.4	14315.3
57.5°	15877.4	15949.6	16399.2	16957.2	17229.5	17078.6	17009.7	16658.5	16189.2	15733.0	15710.1
60°	17236.1	17239.4	17823.6	18483.2	19034.5	19136.3	18854.0	18384.7	17777.6	17173.8	17147.5
62.5°	18178.0	18319.1	19057.5	20173.3	21161.2	21732.2	20987.2	20002.7	18808.1	17833.4	17734.9
65°	18371.6	18466.8	19592.5	21482.8	23501.1	24731.8	23008.8	20915.0	18877.0	17577.4	17511.8
67.5°	16806.2	16907.9	18424.1	21325.3	25142.0	27665.7	24321.6	20475.3	17708.7	16100.6	15972.6
70°	12999.3	13114.1	14988.1	18772.0	24777.7	28587.9	23386.2	17859.7	14604.1	12868.0	12635.0
72.5°	6911.5	7334.9	8936.4	12884.4	20111.0	24613.6	19175.7	13032.1	9418.8	7699.1	7390.7
75°	2523.7	2576.2	3468.9	5713.6	11699.7	16878.4	12149.3	6215.8	3573.9	2760.0	2618.9
77.5°	1043.6	1040.3	1142.1	1726.2	4250.0	8644.3	4742.2	1824.7	1138.8	1053.5	1040.3
80°	617.0	617.0	679.3	718.7	1119.1	2609.0	1250.4	813.9	682.6	623.5	633.4
82.5°	275.7	292.1	429.9	452.9	541.5	715.4	603.9	518.5	446.3	308.5	279.0
85°	151.0	131.3	226.4	236.3	259.3	265.8	285.5	282.2	259.3	151.0	154.2
87.5°	29.5	36.1	65.6	49.2	55.8	49.2	65.6	91.9	95.2	52.5	42.7
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)