

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: P458094

Luminaire Tested: **GALN-SA9C-727-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458094
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-727-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53208 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

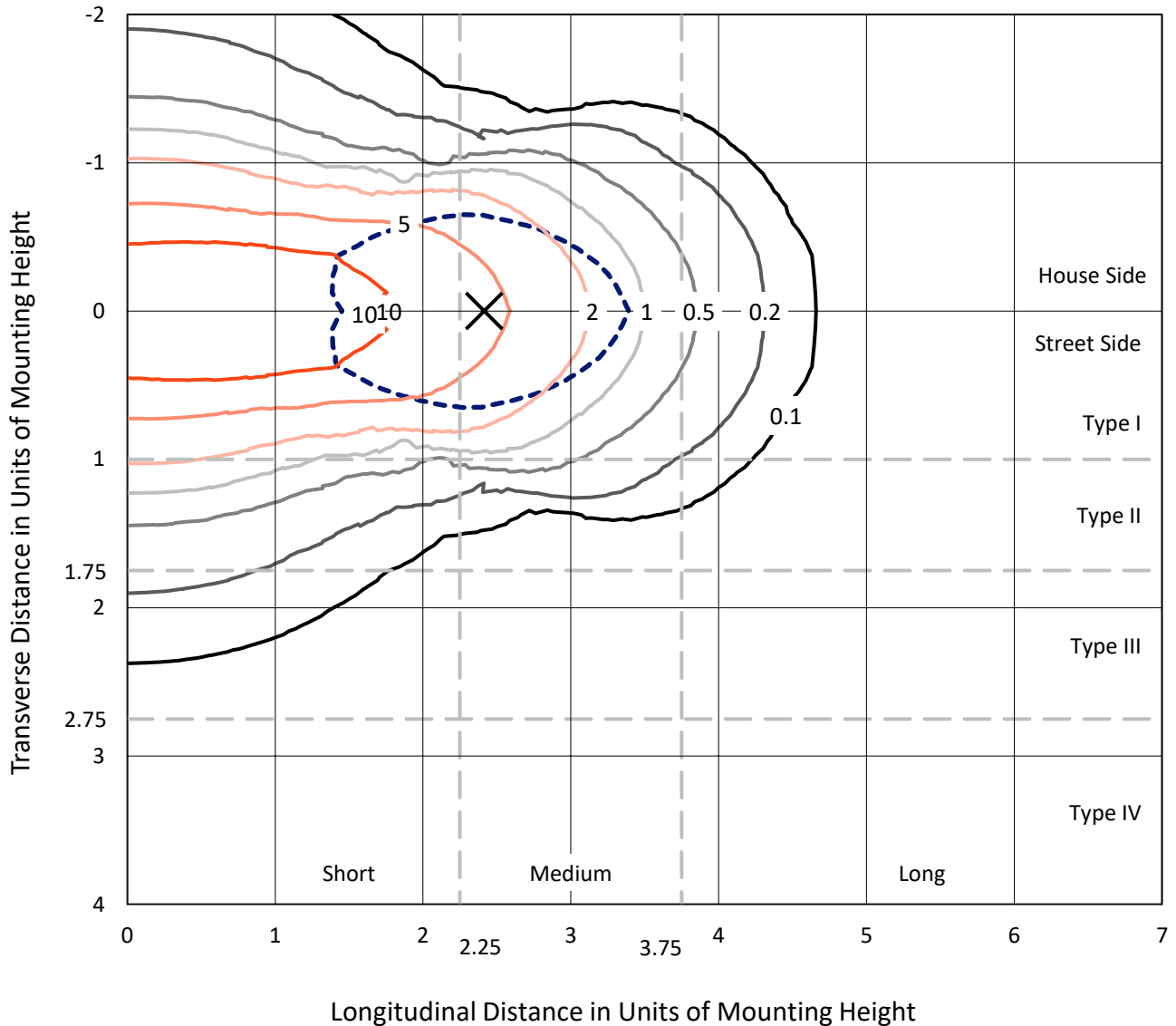
Input Watts (W): 481
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

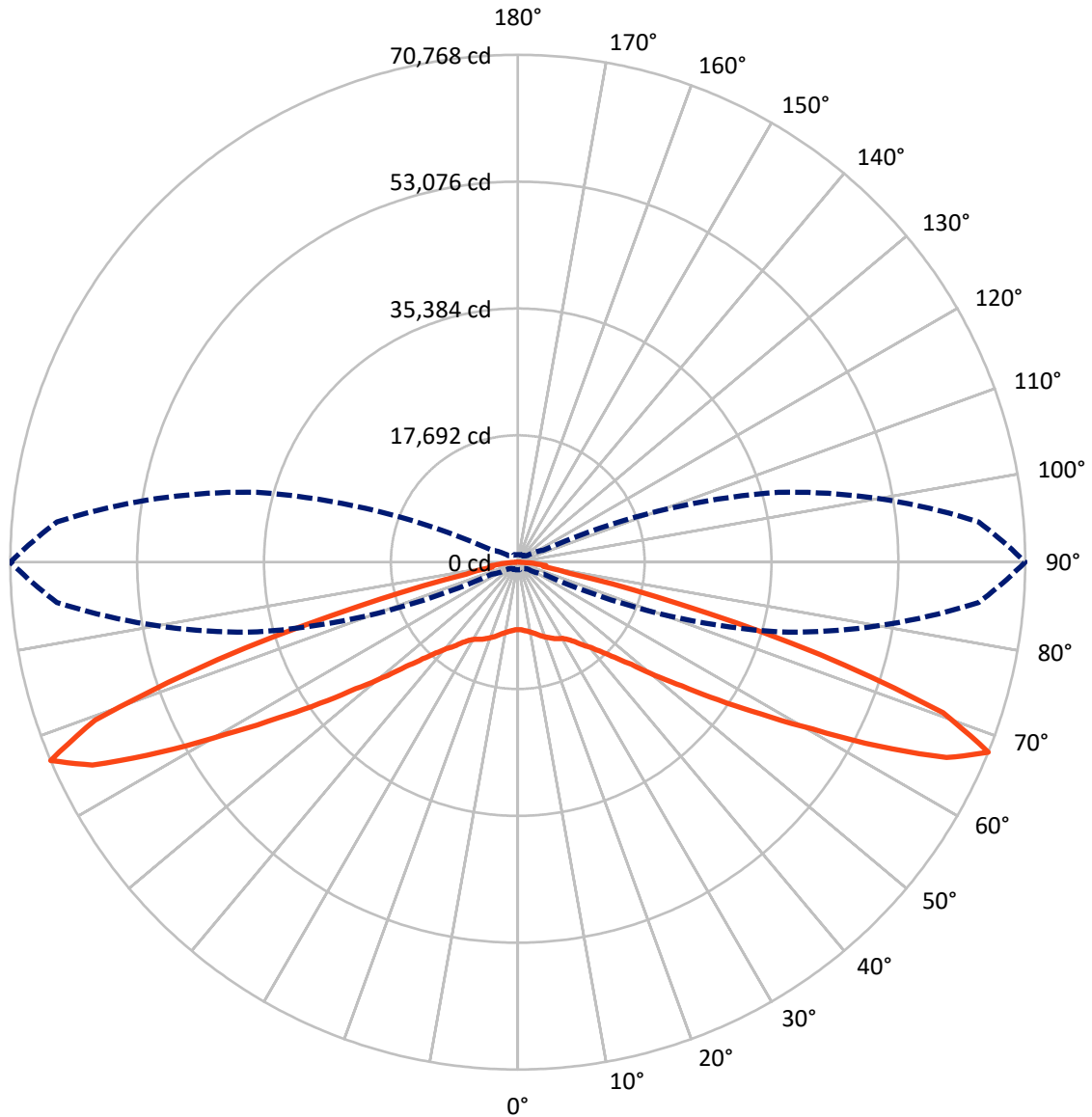
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.8 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	26604.0	0.0	26604.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	26604.0	0.0	26604.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	53208.0	0.0	53208.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	939.1	1.8
10°-20°	3004.7	5.6
20°-30°	5029.1	9.5
30°-40°	6813.1	12.8
40°-50°	8629.9	16.2
50°-60°	10780.9	20.3
60°-70°	12672.4	23.8
70°-80°	4847.8	9.1
80°-90°	491.1	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°	53208.0	100.0
0°-180°	53208.0	100.0

Coefficient of Utilization



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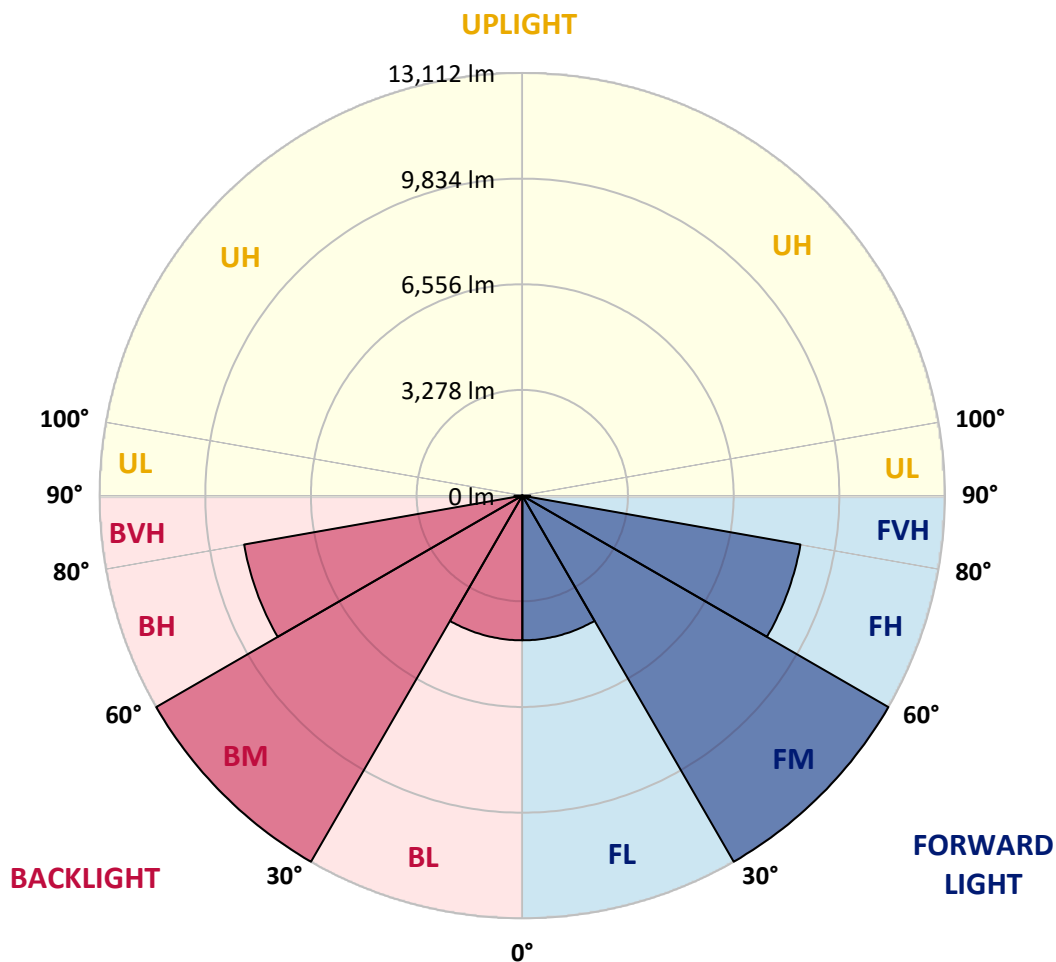
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4486.4	8.4			
FM	(30°-60°)	13111.9	24.6			
FH	(60°-80°)	8760.1	16.5			G4/12000
FVH	(80°-90°)	245.6	0.5			G3/500
BL	(0°-30°)	4486.4	8.4	B4/5000		
BM	(30°-60°)	13111.9	24.6	B5		
BH	(60°-80°)	8760.1	16.5	B5		G5
BVH	(80°-90°)	245.6	0.5			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 I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	9419.5	9419.5	9419.5	9419.5	9419.5	9419.5	9419.5	9419.5	9419.5	9419.5	9419.5
2.5°	9540.3	9534.4	9537.3	9534.4	9543.2	9537.3	9502.0	9472.5	9448.9	9451.9	9443.0
5°	9743.6	9746.5	9749.5	9734.7	9755.4	9743.6	9687.6	9640.4	9593.3	9575.6	9569.7
7.5°	9911.5	9926.2	9935.1	9949.8	9985.2	9985.2	9955.7	9887.9	9784.8	9725.9	9722.9
10°	10079.5	10091.2	10117.8	10164.9	10223.8	10279.8	10268.0	10176.7	10044.1	9943.9	9920.4
12.5°	10138.4	10153.1	10241.5	10377.0	10509.6	10618.6	10618.6	10545.0	10374.1	10220.9	10176.7
15°	9932.1	9958.7	10117.8	10406.5	10754.2	10992.8	11045.9	10942.7	10760.1	10524.4	10471.3
17.5°	9522.6	9587.4	9820.2	10247.4	10824.9	11319.9	11473.1	11423.0	11187.3	10886.8	10824.9
20°	9083.6	9154.3	9401.8	9967.5	10766.0	11511.4	11956.3	11968.1	11676.4	11240.3	11149.0
22.5°	8600.4	8653.4	8971.6	9634.6	10589.2	11555.6	12371.7	12575.0	12180.2	11593.9	11464.2
25°	8058.3	8117.2	8450.1	9166.1	10256.2	11505.5	12751.8	13199.6	12707.6	11971.0	11806.0
27.5°	7539.7	7563.3	7919.8	8647.5	9817.2	11375.8	13031.7	13774.2	13291.0	12283.3	12074.1
30°	7041.8	7097.8	7413.0	8131.9	9313.4	11122.5	13273.3	14428.3	13918.5	12610.4	12342.2
32.5°	6514.4	6582.1	6923.9	7651.7	8809.6	10742.4	13420.6	15144.2	14793.6	13140.7	12854.9
35°	6007.6	6051.8	6396.5	7103.6	8317.5	10300.4	13447.1	15951.5	15922.1	13945.1	13565.0
37.5°	5489.0	5553.9	5901.5	6579.2	7796.0	9832.0	13314.5	16808.9	17283.3	15061.7	14652.2
40°	4991.1	5047.1	5388.9	6072.4	7203.8	9260.4	12999.3	17592.6	18871.4	16210.8	15630.4
42.5°	4449.0	4463.7	4837.9	5533.2	6623.4	8597.4	12545.5	18290.9	20642.1	17751.7	17029.9
45°	3833.2	3871.5	4219.2	4902.7	5957.5	7855.0	11929.8	18868.4	22887.2	19887.8	18903.8
47.5°	3217.4	3249.8	3568.0	4242.7	5229.8	7003.5	10981.0	19375.2	25191.3	22601.4	21310.9
50°	2616.4	2634.0	2893.3	3491.4	4410.7	6107.8	9805.4	19537.2	27795.8	26443.5	24796.5
52.5°	2068.3	2094.9	2292.3	2760.7	3535.6	5050.0	8535.6	19136.5	30836.5	30998.5	28676.8
55°	1676.5	1685.3	1832.6	2177.4	2763.7	3942.2	7003.5	18019.9	34106.9	36835.2	33874.2
57.5°	1443.7	1449.6	1532.1	1723.6	2127.3	2972.9	5433.1	15907.3	37044.4	43673.7	39867.0
60°	1311.1	1314.1	1361.2	1473.2	1685.3	2280.5	3892.1	12925.6	39943.6	51284.1	47315.4
62.5°	1228.6	1228.6	1261.0	1322.9	1426.0	1750.1	2819.7	9325.2	41929.5	59006.5	56496.2
65°	1149.1	1149.1	1172.6	1216.8	1272.8	1431.9	2083.1	6081.3	41879.4	64631.1	65730.1
67.5°	1057.7	1057.7	1075.4	1119.6	1152.0	1231.6	1608.7	3983.5	37619.0	64507.3	70768.3
70°	948.7	948.7	972.3	1010.6	1037.1	1087.2	1269.9	2725.4	27636.7	55079.0	62936.9
72.5°	839.7	842.7	857.4	895.7	916.3	945.8	1054.8	1909.2	16953.3	37504.1	44006.6
75°	718.9	724.8	739.5	777.8	795.5	807.3	889.8	1361.2	8576.8	20220.8	23022.8
77.5°	580.4	592.2	601.1	642.3	654.1	671.8	733.6	984.1	3765.4	7265.7	7330.5
80°	424.3	439.0	465.5	503.8	512.7	524.4	559.8	698.3	1705.9	3317.6	3603.4
82.5°	312.3	332.9	300.5	350.6	350.6	335.9	394.8	468.5	783.7	3285.2	3930.4
85°	170.9	173.8	156.2	179.7	191.5	188.6	209.2	229.8	380.1	2192.1	2259.8
87.5°	41.2	44.2	47.1	56.0	67.8	67.8	73.7	64.8	123.7	710.1	406.6
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)