

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: P459486

Luminaire Tested: **GALN-SA9B-735-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459486
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-SA9B-735-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47969 lumens
Efficiency: N/A
Efficacy: 131.8 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

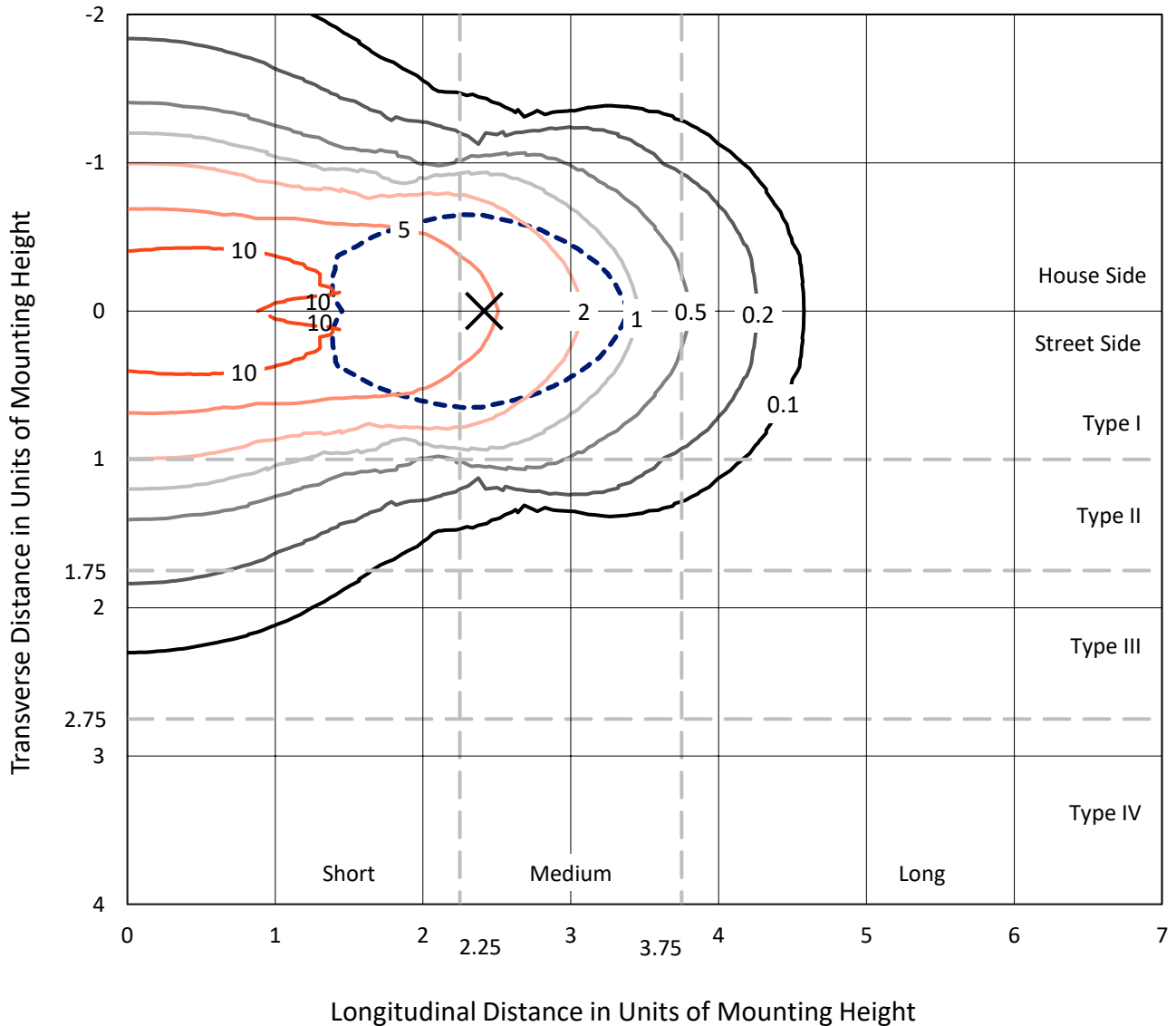
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

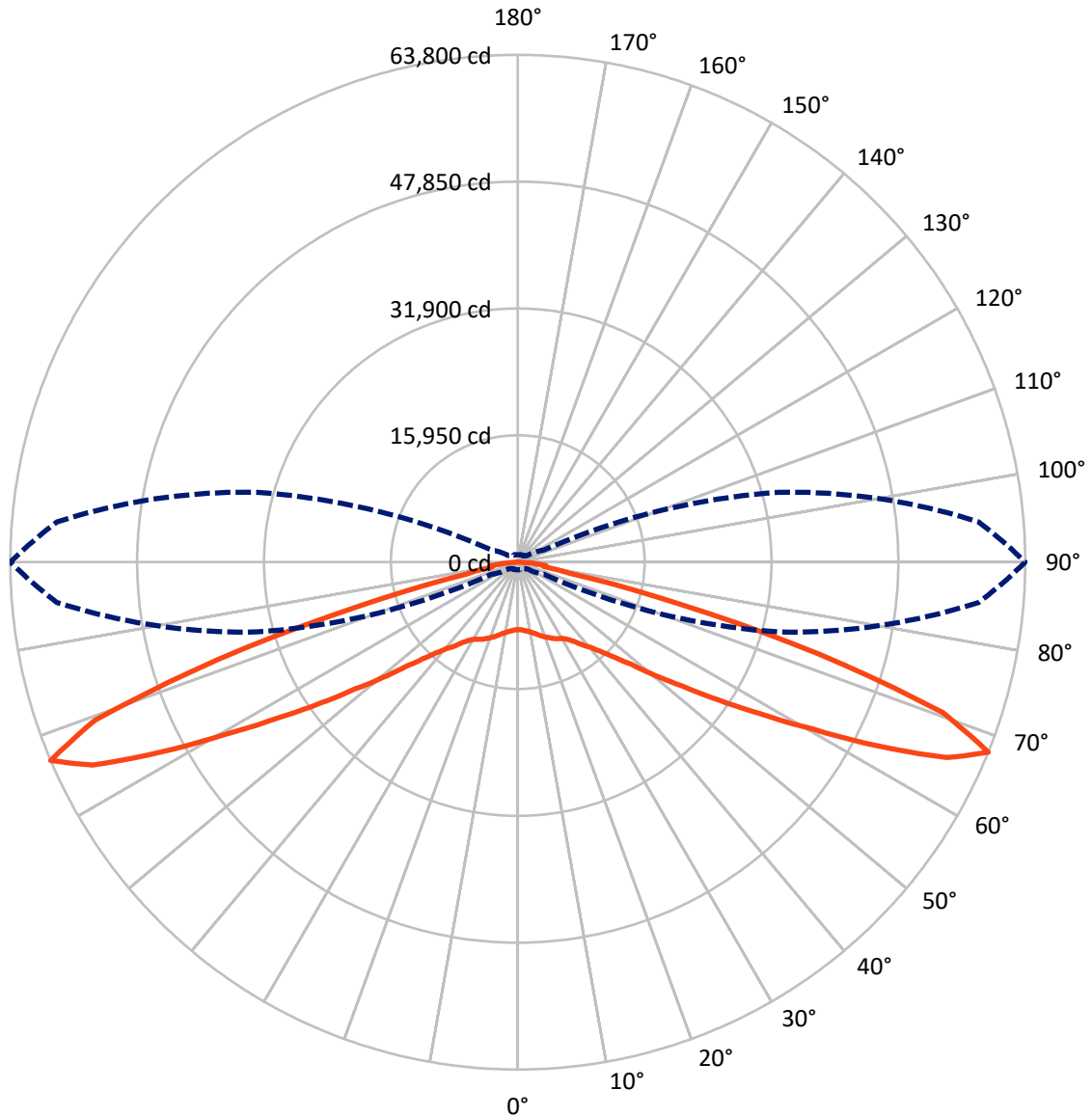
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.3 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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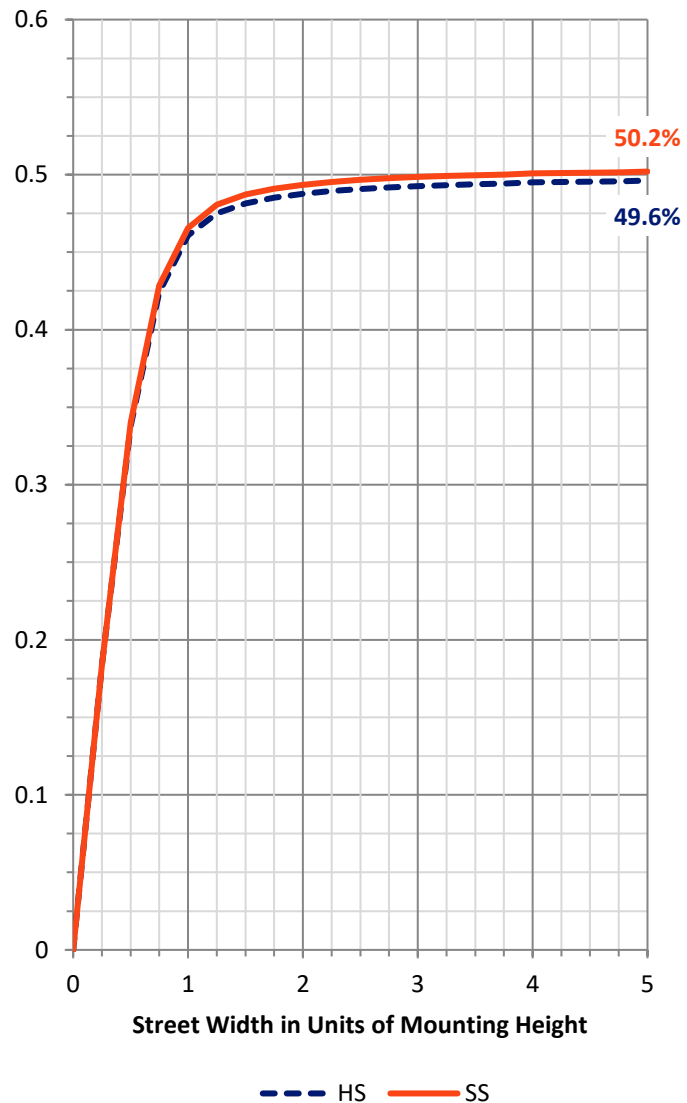
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	23984.5	0.0	23984.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	23984.5	0.0	23984.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	47969.0	0.0	47969.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	846.7	1.8
10°-20°	2708.8	5.6
20°-30°	4533.9	9.5
30°-40°	6142.2	12.8
40°-50°	7780.1	16.2
50°-60°	9719.4	20.3
60°-70°	11424.7	23.8
70°-80°	4370.5	9.1
80°-90°	442.8	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°	47969.0	100.0
0°-180°	47969.0	100.0



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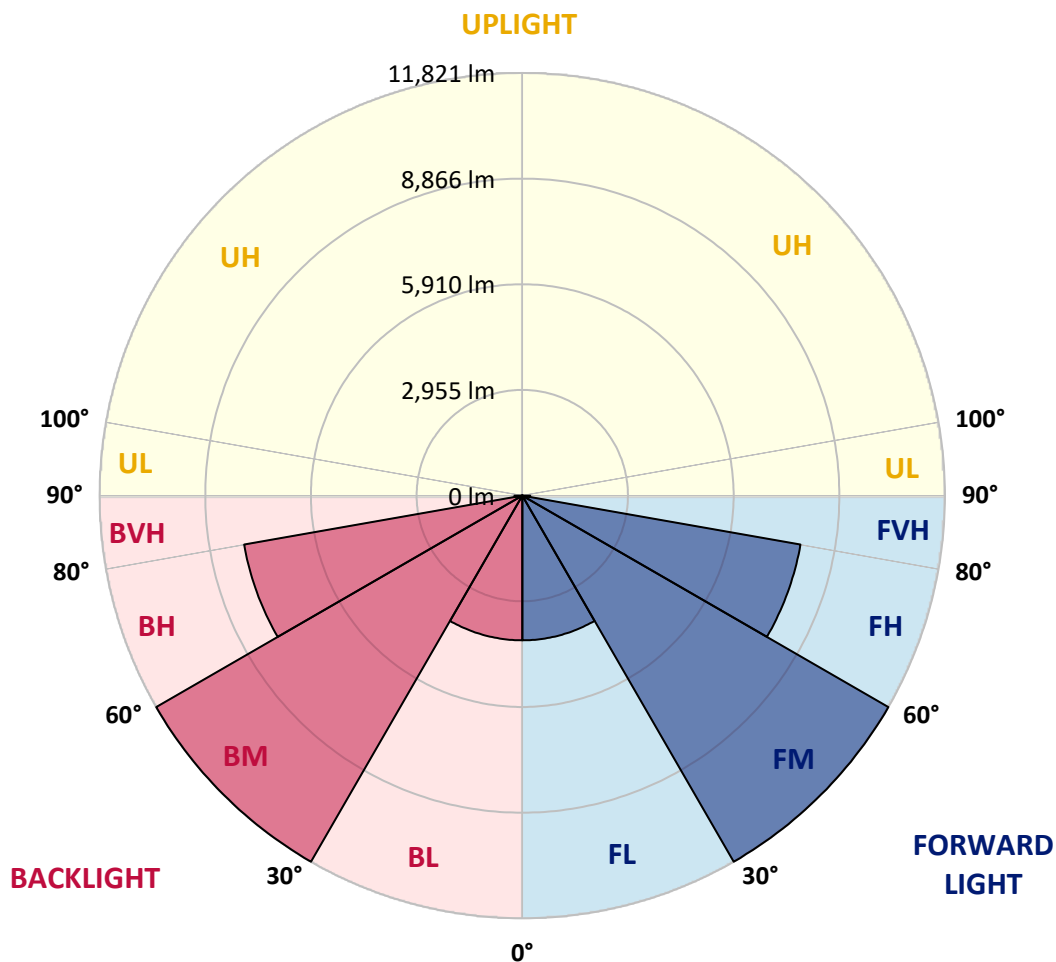
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4044.7	8.4			
FM	(30°-60°)	11820.9	24.6			
FH	(60°-80°)	7897.6	16.5			G4/12000
FVH	(80°-90°)	221.4	0.5			G2/225
BL	(0°-30°)	4044.7	8.4	B4/5000		
BM	(30°-60°)	11820.9	24.6	B5		
BH	(60°-80°)	7897.6	16.5	B5		G5
BVH	(80°-90°)	221.4	0.5			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 I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	8492.0	8492.0	8492.0	8492.0	8492.0	8492.0	8492.0	8492.0	8492.0	8492.0	8492.0
2.5°	8600.9	8595.6	8598.3	8595.6	8603.6	8598.3	8566.4	8539.8	8518.6	8521.2	8513.3
5°	8784.2	8786.8	8789.5	8776.2	8794.8	8784.2	8733.7	8691.2	8648.7	8632.8	8627.5
7.5°	8935.6	8948.9	8956.8	8970.1	9002.0	9002.0	8975.4	8914.3	8821.4	8768.3	8765.6
10°	9087.0	9097.6	9121.5	9164.0	9217.2	9267.6	9257.0	9174.7	9055.1	8964.8	8943.6
12.5°	9140.1	9153.4	9233.1	9355.3	9474.8	9573.1	9573.1	9506.7	9352.6	9214.5	9174.7
15°	8954.2	8978.1	9121.5	9381.8	9695.3	9910.4	9958.3	9865.3	9700.6	9488.1	9440.3
17.5°	8585.0	8643.4	8853.3	9238.4	9759.0	10205.3	10343.4	10298.3	10085.8	9814.8	9759.0
20°	8189.2	8252.9	8476.1	8986.1	9705.9	10377.9	10779.0	10789.7	10526.7	10133.6	10051.2
22.5°	7753.6	7801.4	8088.3	8685.9	9546.5	10417.8	11153.6	11336.8	10980.9	10452.3	10335.4
25°	7264.8	7317.9	7618.1	8263.6	9246.4	10372.6	11496.2	11900.0	11456.4	10792.3	10643.6
27.5°	6797.3	6818.6	7140.0	7796.1	8850.6	10255.8	11748.6	12417.9	11982.3	11073.9	10885.3
30°	6348.4	6398.9	6683.1	7331.2	8396.4	10027.3	11966.4	13007.6	12548.1	11368.7	11127.0
32.5°	5873.0	5934.0	6242.2	6898.3	7942.2	9684.7	12099.2	13653.1	13337.0	11846.8	11589.2
35°	5416.1	5455.9	5766.7	6404.2	7498.6	9286.2	12123.1	14380.9	14354.3	12572.0	12229.3
37.5°	4948.6	5007.0	5320.5	5931.4	7028.4	8863.9	12003.6	15153.9	15581.5	13578.7	13209.5
40°	4499.7	4550.1	4858.3	5474.5	6494.5	8348.6	11719.3	15860.4	17013.2	14614.6	14091.4
42.5°	4010.9	4024.2	4361.5	4988.4	5971.2	7750.9	11310.3	16490.0	18609.6	16003.9	15353.1
45°	3455.8	3490.3	3803.7	4420.0	5370.9	7081.5	10755.1	17010.6	20633.7	17929.6	17042.5
47.5°	2900.6	2929.8	3216.7	3825.0	4714.8	6313.9	9899.8	17467.4	22710.9	20376.0	19212.6
50°	2358.7	2374.7	2608.4	3147.6	3976.4	5506.4	8840.0	17613.5	25059.0	23839.8	22354.9
52.5°	1864.7	1888.6	2066.6	2488.9	3187.5	4552.8	7695.1	17252.3	27800.2	27946.3	25853.2
55°	1511.4	1519.4	1652.2	1963.0	2491.6	3554.1	6313.9	16245.6	30748.7	33208.3	30538.8
57.5°	1301.6	1306.9	1381.2	1553.9	1917.8	2680.1	4898.1	14341.1	33396.9	39373.5	35941.6
60°	1182.0	1184.7	1227.2	1328.1	1519.4	2055.9	3508.9	11652.9	36010.7	46234.6	42656.6
62.5°	1107.7	1107.7	1136.9	1192.7	1285.6	1577.8	2542.0	8407.0	37801.0	53196.6	50933.4
65°	1035.9	1035.9	1057.2	1097.0	1147.5	1290.9	1878.0	5482.5	37755.8	58267.3	59258.1
67.5°	953.6	953.6	969.5	1009.4	1038.6	1110.3	1450.3	3591.2	33914.9	58155.8	63800.3
70°	855.3	855.3	876.6	911.1	935.0	980.2	1144.8	2457.0	24915.6	49655.8	56740.0
72.5°	757.0	759.7	773.0	807.5	826.1	852.7	950.9	1721.2	15284.0	33811.3	39673.6
75°	648.1	653.4	666.7	701.2	717.2	727.8	802.2	1227.2	7732.3	18229.8	20755.9
77.5°	523.3	533.9	541.9	579.1	589.7	605.6	661.4	887.2	3394.7	6550.3	6608.7
80°	382.5	395.8	419.7	454.2	462.2	472.8	504.7	629.5	1538.0	2990.9	3248.6
82.5°	281.6	300.2	270.9	316.1	316.1	302.8	355.9	422.3	706.6	2961.7	3543.4
85°	154.1	156.7	140.8	162.0	172.7	170.0	188.6	207.2	342.7	1976.2	2037.3
87.5°	37.2	39.8	42.5	50.5	61.1	61.1	66.4	58.4	111.6	640.2	366.6
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)