

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: P453280

Luminaire Tested: **GALN-SA4B-740-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453280
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-SA4B-740-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22470 lumens
Efficiency: N/A
Efficacy: 137.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

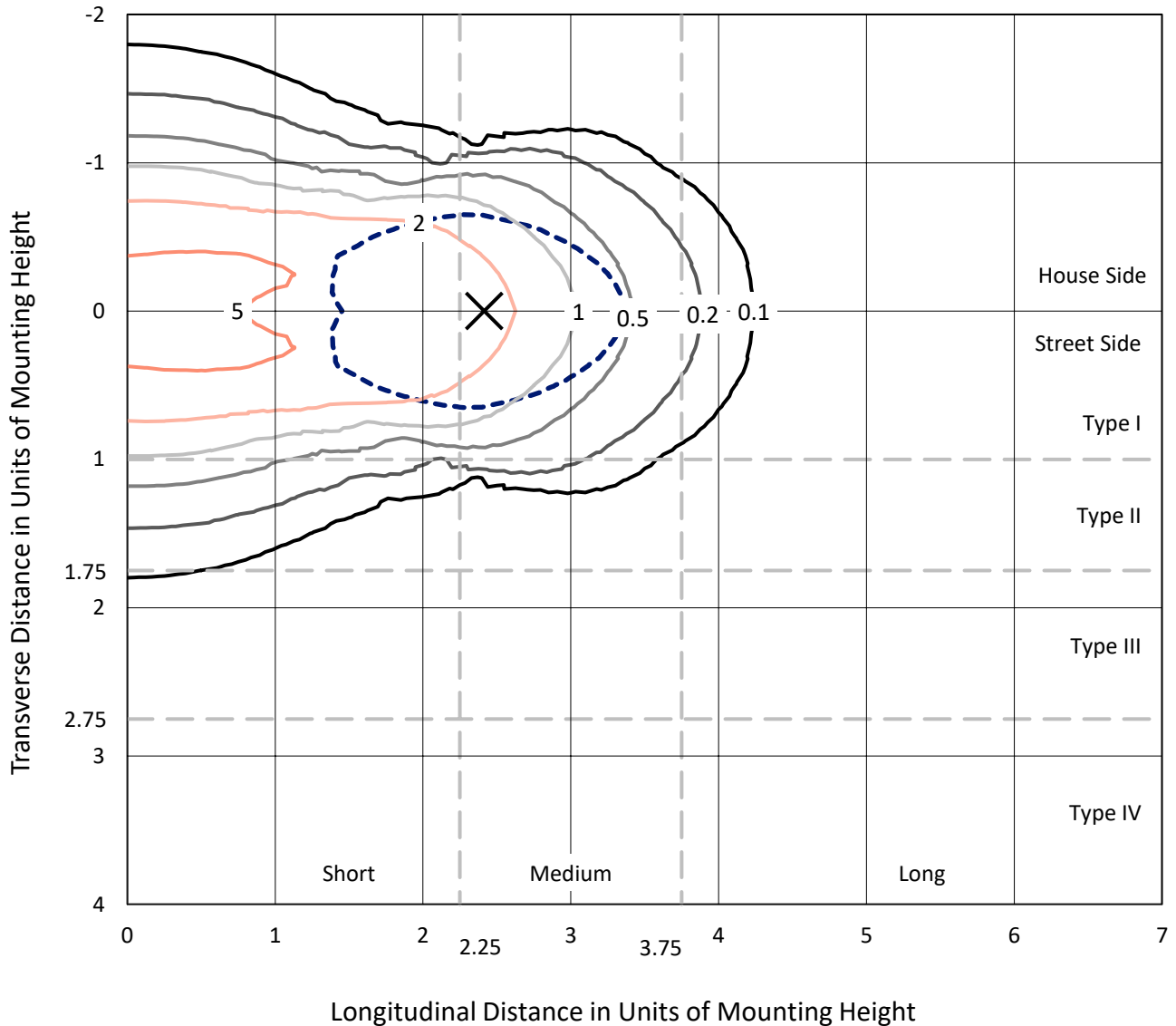
Input Watts (W): 164
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

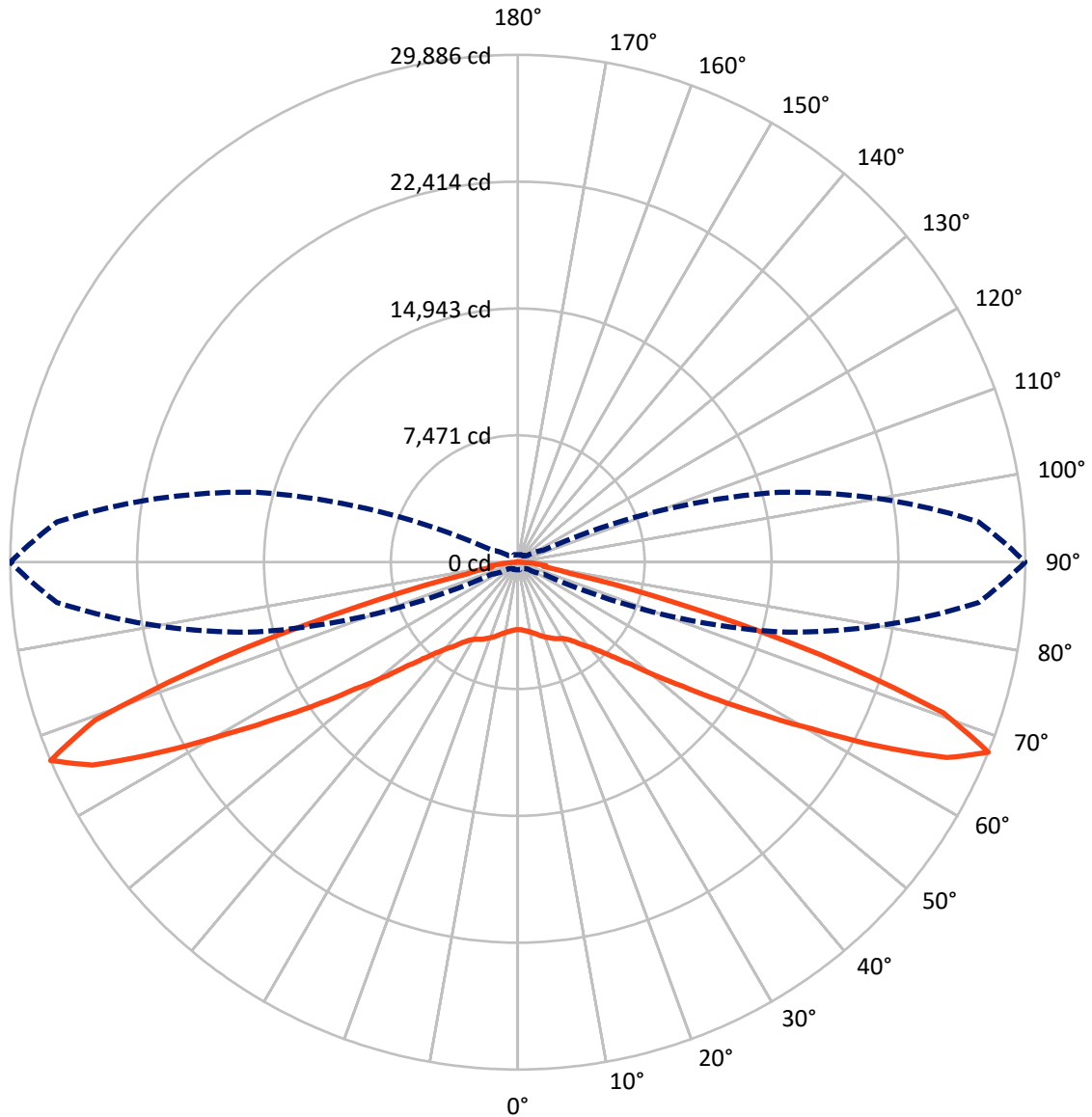
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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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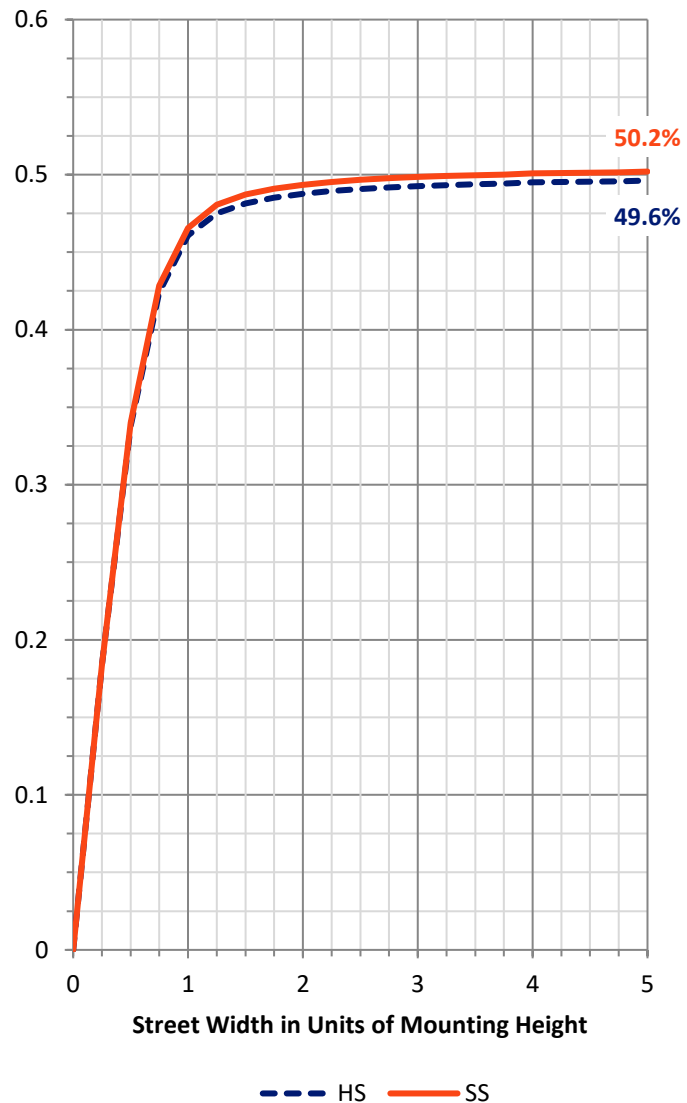
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11235.0	0.0	11235.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11235.0	0.0	11235.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	22470.0	0.0	22470.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	396.6	1.8
10°-20°	1268.9	5.6
20°-30°	2123.8	9.5
30°-40°	2877.2	12.8
40°-50°	3644.4	16.2
50°-60°	4552.8	20.3
60°-70°	5351.6	23.8
70°-80°	2047.2	9.1
80°-90°	207.4	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°	22470.0	100.0
0°-180°	22470.0	100.0



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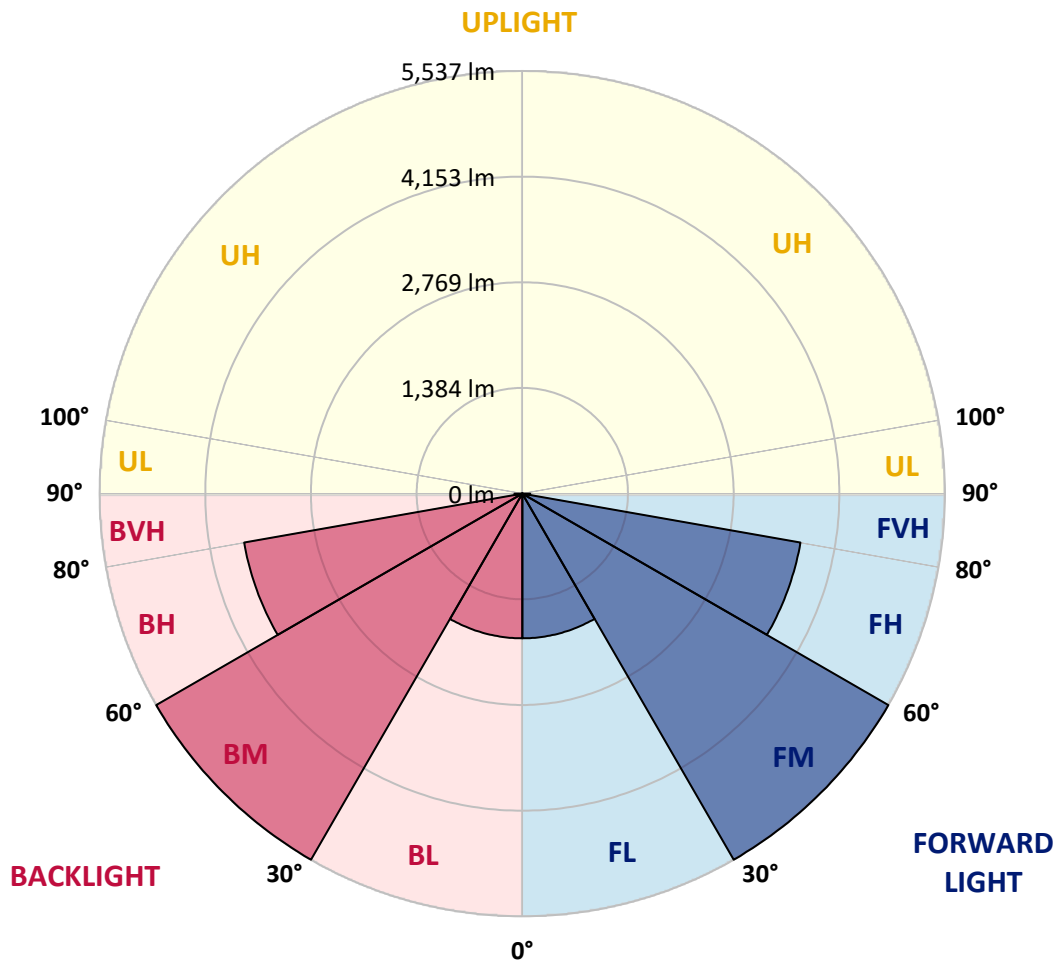
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1894.6	8.4			
FM (30°-60°)	5537.2	24.6			
FH (60°-80°)	3699.4	16.5			G2/5000
FVH (80°-90°)	103.7	0.5			G2/225
BL (0°-30°)	1894.6	8.4	B3/2500		
BM (30°-60°)	5537.2	24.6	B4/8500		
BH (60°-80°)	3699.4	16.5	B4/5000		G4/5000
BVH (80°-90°)	103.7	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3977.9	3977.9	3977.9	3977.9	3977.9	3977.9	3977.9	3977.9	3977.9	3977.9	3977.9
2.5°	4028.9	4026.4	4027.7	4026.4	4030.1	4027.7	4012.7	4000.3	3990.3	3991.6	3987.8
5°	4114.8	4116.0	4117.2	4111.0	4119.7	4114.8	4091.1	4071.2	4051.3	4043.8	4041.3
7.5°	4185.7	4191.9	4195.6	4201.9	4216.8	4216.8	4204.3	4175.7	4132.2	4107.3	4106.0
10°	4256.6	4261.6	4272.8	4292.7	4317.6	4341.2	4336.2	4297.7	4241.7	4199.4	4189.4
12.5°	4281.5	4287.7	4325.0	4382.3	4438.3	4484.3	4484.3	4453.2	4381.0	4316.3	4297.7
15°	4194.4	4205.6	4272.8	4394.7	4541.5	4642.3	4664.7	4621.2	4544.0	4444.5	4422.1
17.5°	4021.4	4048.8	4147.1	4327.5	4571.4	4780.4	4845.1	4824.0	4724.4	4597.5	4571.4
20°	3836.0	3865.9	3970.4	4209.3	4546.5	4861.3	5049.2	5054.2	4931.0	4746.8	4708.3
22.5°	3632.0	3654.4	3788.8	4068.7	4471.9	4880.0	5224.6	5310.5	5143.8	4896.2	4841.4
25°	3403.0	3427.9	3568.5	3870.9	4331.3	4858.8	5385.1	5574.3	5366.5	5055.4	4985.7
27.5°	3184.1	3194.0	3344.6	3651.9	4145.9	4804.1	5503.3	5816.9	5612.8	5187.3	5099.0
30°	2973.8	2997.4	3130.6	3434.1	3933.1	4697.1	5605.4	6093.1	5877.9	5325.4	5212.2
32.5°	2751.1	2779.7	2924.0	3231.3	3720.3	4536.6	5667.6	6395.5	6247.4	5549.4	5428.7
35°	2537.0	2555.7	2701.3	2999.9	3512.5	4349.9	5678.8	6736.4	6724.0	5889.1	5728.6
37.5°	2318.1	2345.4	2492.2	2778.4	3292.3	4152.1	5622.8	7098.5	7298.8	6360.6	6187.7
40°	2107.8	2131.4	2275.7	2564.4	3042.2	3910.7	5489.7	7429.5	7969.5	6845.9	6600.8
42.5°	1878.8	1885.0	2043.1	2336.7	2797.1	3630.7	5298.0	7724.3	8717.3	7496.6	7191.8
45°	1618.8	1635.0	1781.8	2070.4	2515.9	3317.2	5038.0	7968.2	9665.4	8398.7	7983.2
47.5°	1358.7	1372.4	1506.8	1791.7	2208.6	2957.6	4637.3	8182.2	10638.4	9544.7	8999.7
50°	1104.9	1112.4	1221.9	1474.4	1862.7	2579.3	4140.9	8250.7	11738.3	11167.2	10471.7
52.5°	873.5	884.7	968.0	1165.9	1493.1	2132.7	3604.6	8081.4	13022.4	13090.8	12110.4
55°	708.0	711.7	773.9	919.5	1167.1	1664.8	2957.6	7609.9	14403.5	15555.7	14305.2
57.5°	609.7	612.2	647.0	727.9	898.4	1255.5	2294.4	6717.7	15644.0	18443.6	16836.0
60°	553.7	554.9	574.8	622.1	711.7	963.1	1643.7	5458.6	16868.4	21657.5	19981.5
62.5°	518.9	518.9	532.5	558.7	602.2	739.1	1190.8	3938.1	17707.0	24918.7	23858.6
65°	485.3	485.3	495.2	513.9	537.5	604.7	879.7	2568.1	17685.9	27294.0	27758.1
67.5°	446.7	446.7	454.2	472.8	486.5	520.1	679.4	1682.2	15886.7	27241.8	29885.8
70°	400.7	400.7	410.6	426.8	438.0	459.1	536.3	1150.9	11671.1	23260.1	26578.6
72.5°	354.6	355.9	362.1	378.3	387.0	399.4	445.4	806.3	7159.5	15838.1	18584.2
75°	303.6	306.1	312.3	328.5	335.9	340.9	375.8	574.8	3622.0	8539.3	9722.6
77.5°	245.1	250.1	253.8	271.2	276.2	283.7	309.8	415.6	1590.2	3068.3	3095.7
80°	179.2	185.4	196.6	212.8	216.5	221.5	236.4	294.9	720.4	1401.0	1521.7
82.5°	131.9	140.6	126.9	148.1	148.1	141.8	166.7	197.8	331.0	1387.3	1659.8
85°	72.2	73.4	65.9	75.9	80.9	79.6	88.3	97.1	160.5	925.7	954.3
87.5°	17.4	18.7	19.9	23.6	28.6	28.6	31.1	27.4	52.3	299.9	171.7
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)