

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: P529166

Luminaire Tested: **GALN-SA4B-740-U-RW-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529166
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-8)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4B-740-U-RW-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19724 lumens
Efficiency: N/A
Efficacy: 120.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

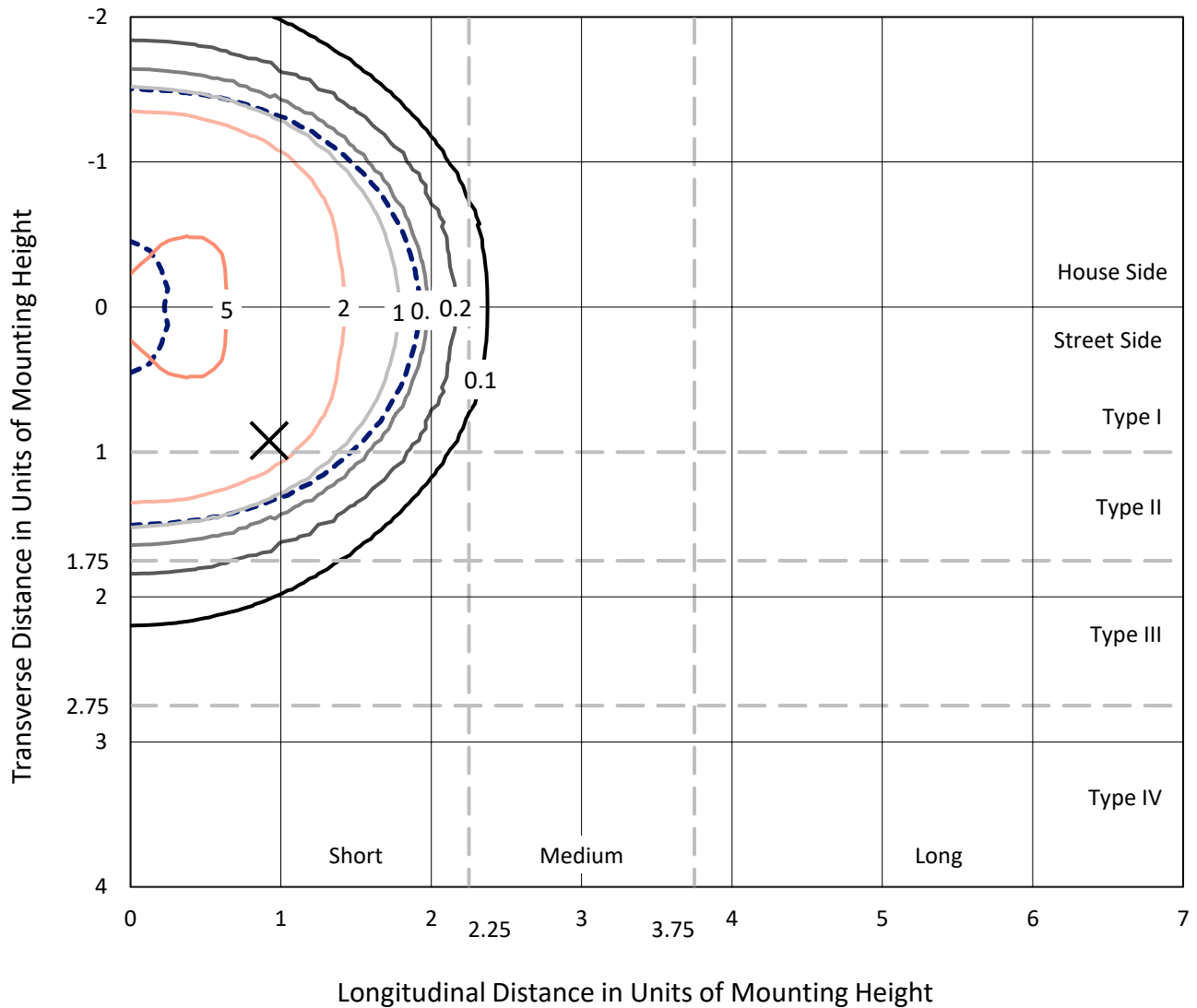
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

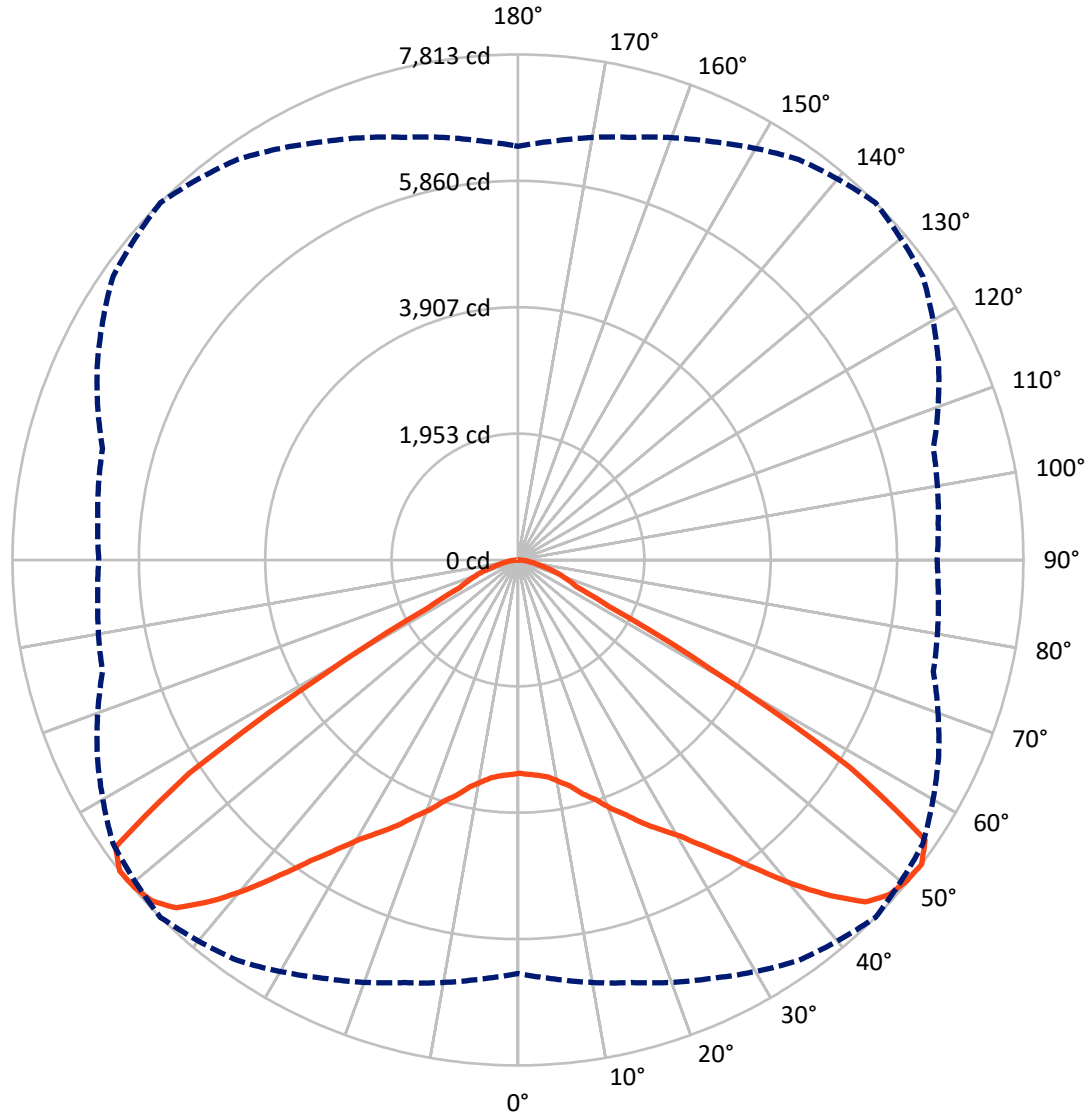
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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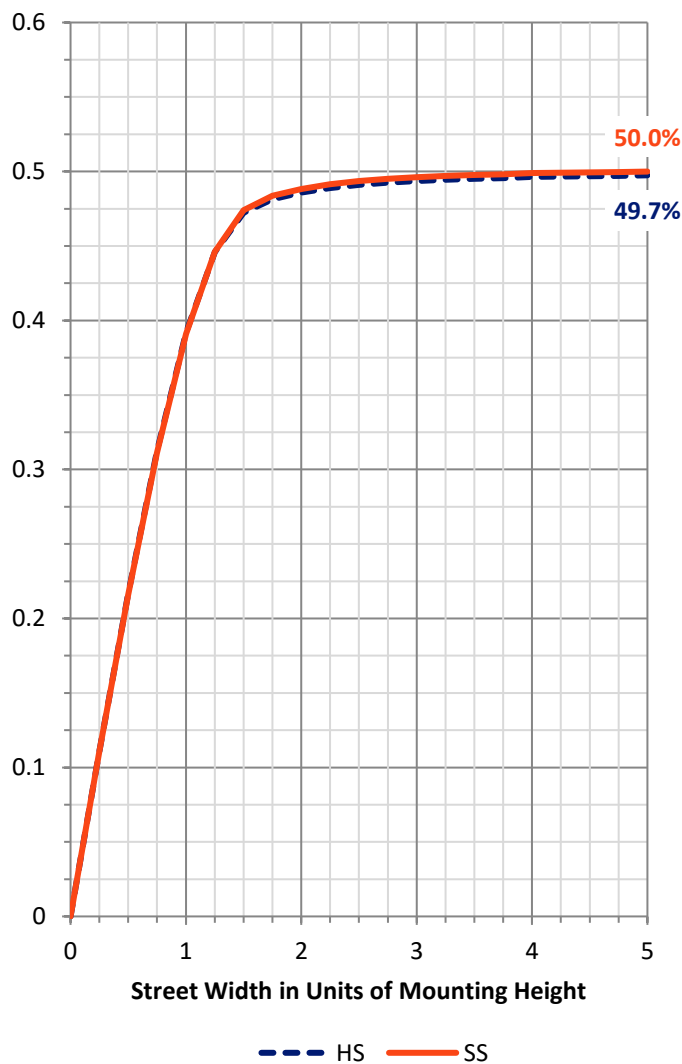
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9862.0	0.0	9862.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9862.0	0.0	9862.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	19724.0	0.0	19724.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	323.9	1.6
10°-20°	1064.4	5.4
20°-30°	2026.5	10.3
30°-40°	3479.7	17.6
40°-50°	5348.3	27.1
50°-60°	5431.1	27.5
60°-70°	1513.6	7.7
70°-80°	446.5	2.3
80°-90°	89.9	0.5
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°	19724.0	100.0
0°-180°	19724.0	100.0

Coefficient of Utilization



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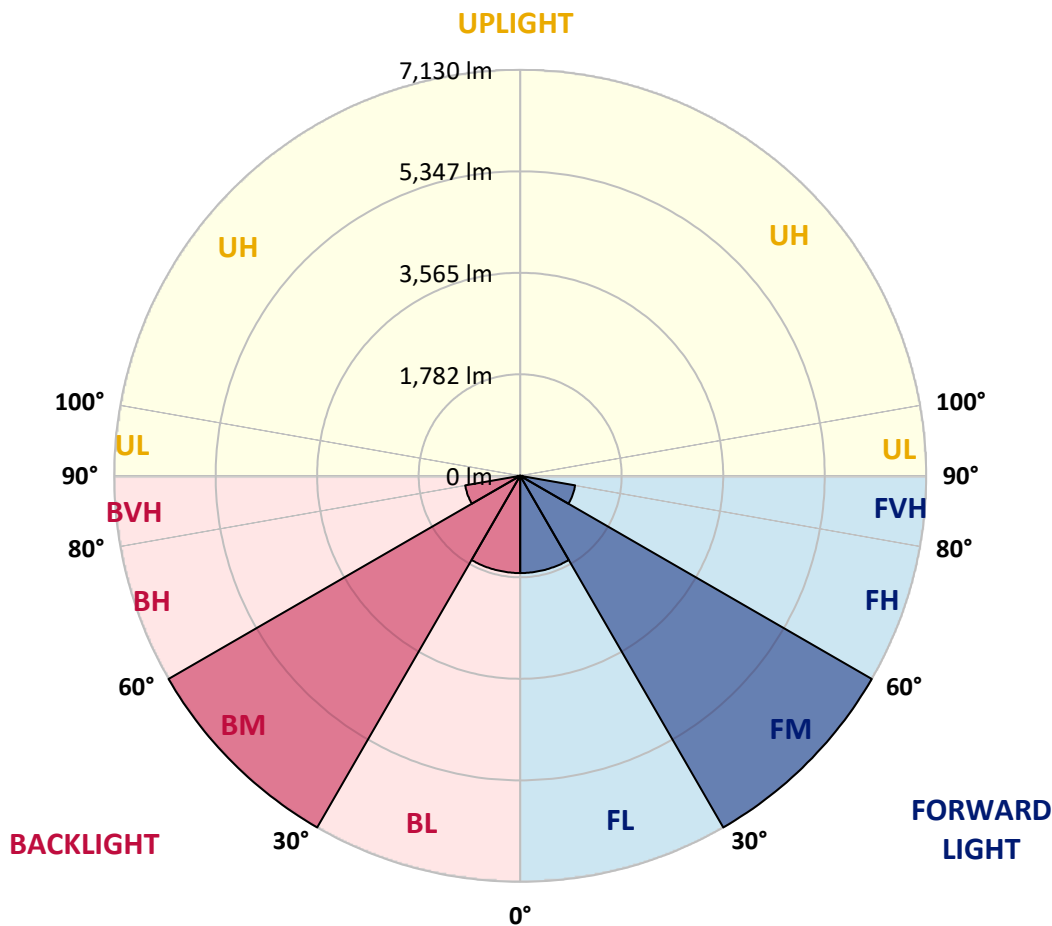
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1707.4	8.7			
FM (30°-60°)	7129.6	36.1			
FH (60°-80°)	980.0	5.0			G1/1800
FVH (80°-90°)	45.0	0.2			G1/100
BL (0°-30°)	1707.4	8.7	B3/2500		
BM (30°-60°)	7129.6	36.1	B4/8500		
BH (60°-80°)	980.0	5.0	B2/1000		G1/1800
BVH (80°-90°)	45.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3297.1	3297.1	3297.1	3297.1	3297.1	3297.1	3297.1	3297.1	3297.1	3297.1	3297.1
2.5°	3304.5	3270.2	3282.4	3289.8	3321.6	3319.2	3311.8	3321.6	3331.4	3333.8	3328.9
5°	3302.0	3277.5	3287.3	3294.7	3326.5	3343.6	3338.7	3380.4	3409.7	3402.4	3439.1
7.5°	3282.4	3297.1	3284.9	3321.6	3348.5	3390.1	3434.2	3473.4	3510.1	3551.7	3559.0
10°	3326.5	3326.5	3348.5	3377.9	3448.9	3480.7	3544.3	3600.6	3671.6	3720.6	3701.0
12.5°	3373.0	3380.4	3380.4	3456.2	3515.0	3586.0	3644.7	3720.6	3820.9	3879.7	3909.1
15°	3419.5	3424.4	3448.9	3551.7	3639.8	3752.4	3806.3	3874.8	3931.1	4041.2	4043.7
17.5°	3461.1	3488.1	3561.5	3676.5	3786.7	3894.4	3980.1	4051.0	4100.0	4144.0	4134.3
20°	3617.8	3637.4	3713.2	3828.3	3992.3	4097.5	4126.9	4139.2	4171.0	4259.1	4232.2
22.5°	3769.5	3776.9	3847.9	4024.1	4139.2	4278.7	4310.5	4303.2	4315.4	4337.4	4376.6
25°	3926.2	3938.4	4036.3	4185.7	4347.2	4513.7	4540.6	4484.3	4467.2	4491.6	4494.1
27.5°	4126.9	4129.4	4254.2	4383.9	4567.5	4724.2	4765.8	4721.7	4640.9	4660.5	4692.3
30°	4381.5	4364.3	4489.2	4675.2	4868.6	4956.7	5027.7	5005.7	4917.5	4900.4	4873.5
32.5°	4675.2	4680.1	4792.7	4995.9	5123.2	5270.0	5345.9	5309.2	5252.9	5223.5	5240.6
35°	5088.9	5110.9	5186.8	5355.7	5561.3	5634.7	5754.7	5676.3	5529.5	5566.2	5598.0
37.5°	5429.1	5492.8	5634.7	5835.4	5957.8	6092.5	6136.5	6031.3	5923.6	5879.5	5984.8
40°	5950.5	5930.9	6087.6	6288.3	6469.4	6604.0	6547.7	6442.5	6175.7	6178.1	6207.5
42.5°	6398.4	6408.2	6528.2	6768.0	7015.3	7098.5	6919.8	6662.8	6366.6	6334.8	6398.4
45°	6775.4	6814.6	6883.1	7203.7	7446.1	7536.6	7206.2	6902.7	6506.1	6374.0	6479.2
47.5°	6910.0	6973.7	7123.0	7416.7	7656.6	7730.0	7465.7	7030.0	6635.9	6420.5	6476.8
50°	6929.6	6907.6	7152.3	7421.6	7632.1	7791.2	7558.7	7123.0	6604.0	6491.4	6474.3
52.5°	6393.5	6501.2	6763.1	7132.8	7558.7	7813.2	7641.9	7174.4	6648.1	6520.8	6479.2
55°	5174.6	5047.3	5524.6	6146.3	6929.6	7637.0	7612.5	7201.3	6675.0	6569.8	6513.5
57.5°	2888.4	2925.1	3194.3	3869.9	4880.8	6055.7	6768.0	6917.4	6662.8	6601.6	6631.0
60°	1336.5	1348.7	1463.8	1779.5	2406.1	3434.2	4371.7	5323.9	5762.0	5850.1	5850.1
62.5°	996.2	991.3	1020.7	1077.0	1209.2	1578.8	2107.5	2863.9	3466.0	3887.0	3997.2
65°	900.8	898.3	913.0	932.6	942.4	993.8	1111.3	1343.8	1539.6	1652.2	1632.7
67.5°	788.2	785.7	790.6	802.9	820.0	846.9	876.3	925.3	993.8	988.9	976.7
70°	636.4	636.4	643.8	653.6	673.1	705.0	739.2	773.5	832.2	844.5	842.0
72.5°	470.0	462.6	477.3	496.9	516.5	555.6	592.4	624.2	665.8	678.0	673.1
75°	298.6	303.5	313.3	335.3	369.6	396.5	435.7	462.6	489.6	499.3	501.8
77.5°	166.4	171.3	188.5	215.4	249.7	279.0	313.3	335.3	352.5	354.9	357.4
80°	100.4	102.8	119.9	144.4	173.8	205.6	232.5	254.6	269.3	261.9	259.5
82.5°	61.2	63.6	78.3	100.4	124.8	149.3	178.7	198.3	213.0	203.2	193.4
85°	31.8	34.3	46.5	61.2	80.8	93.0	93.0	83.2	80.8	75.9	73.4
87.5°	9.8	9.8	12.2	14.7	12.2	14.7	17.1	19.6	19.6	22.0	19.6
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)