

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: P529217

Luminaire Tested: **GALN-SA4B-760-U-RW-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529217
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-7)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4B-760-U-RW-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14547 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G0

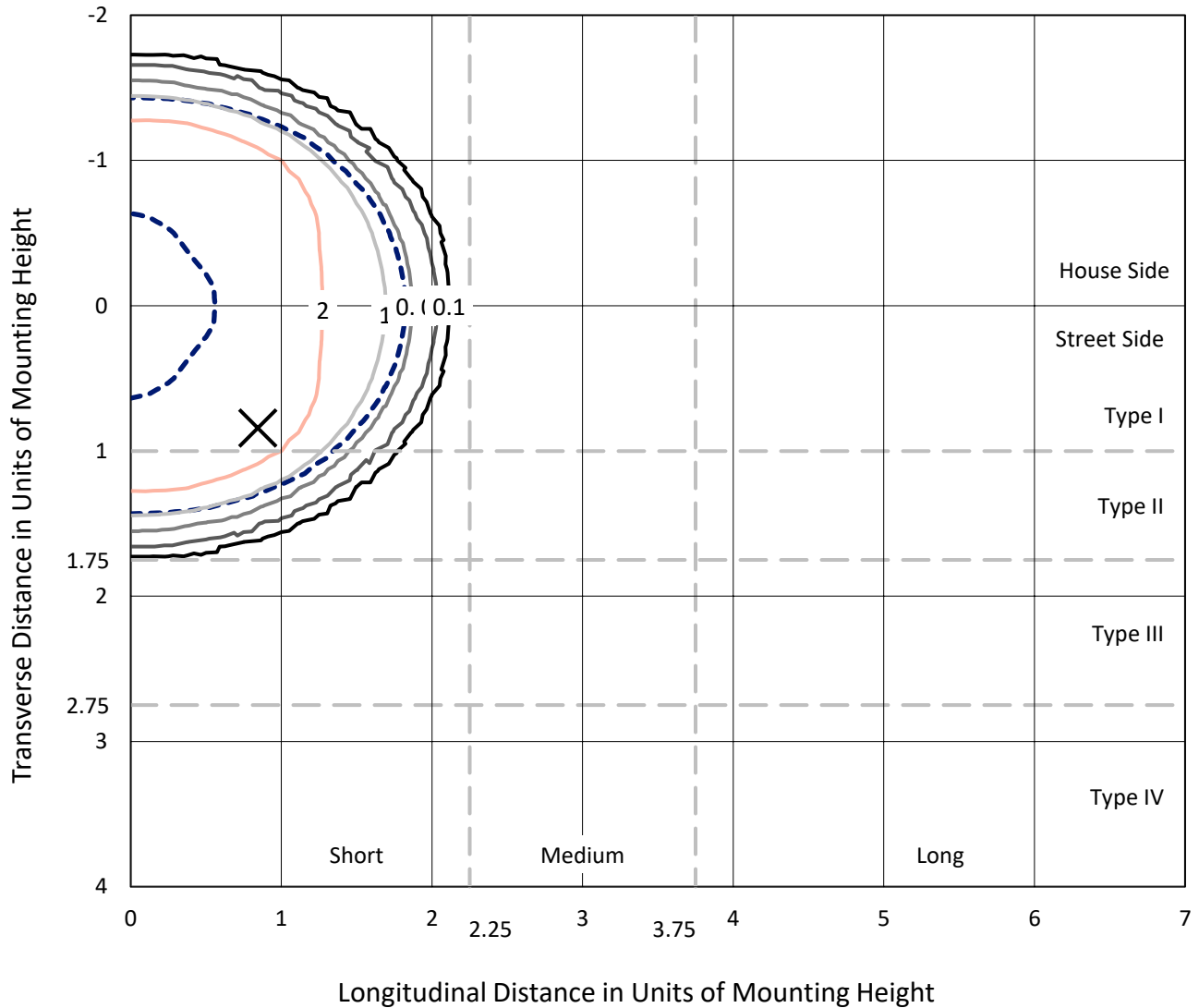
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

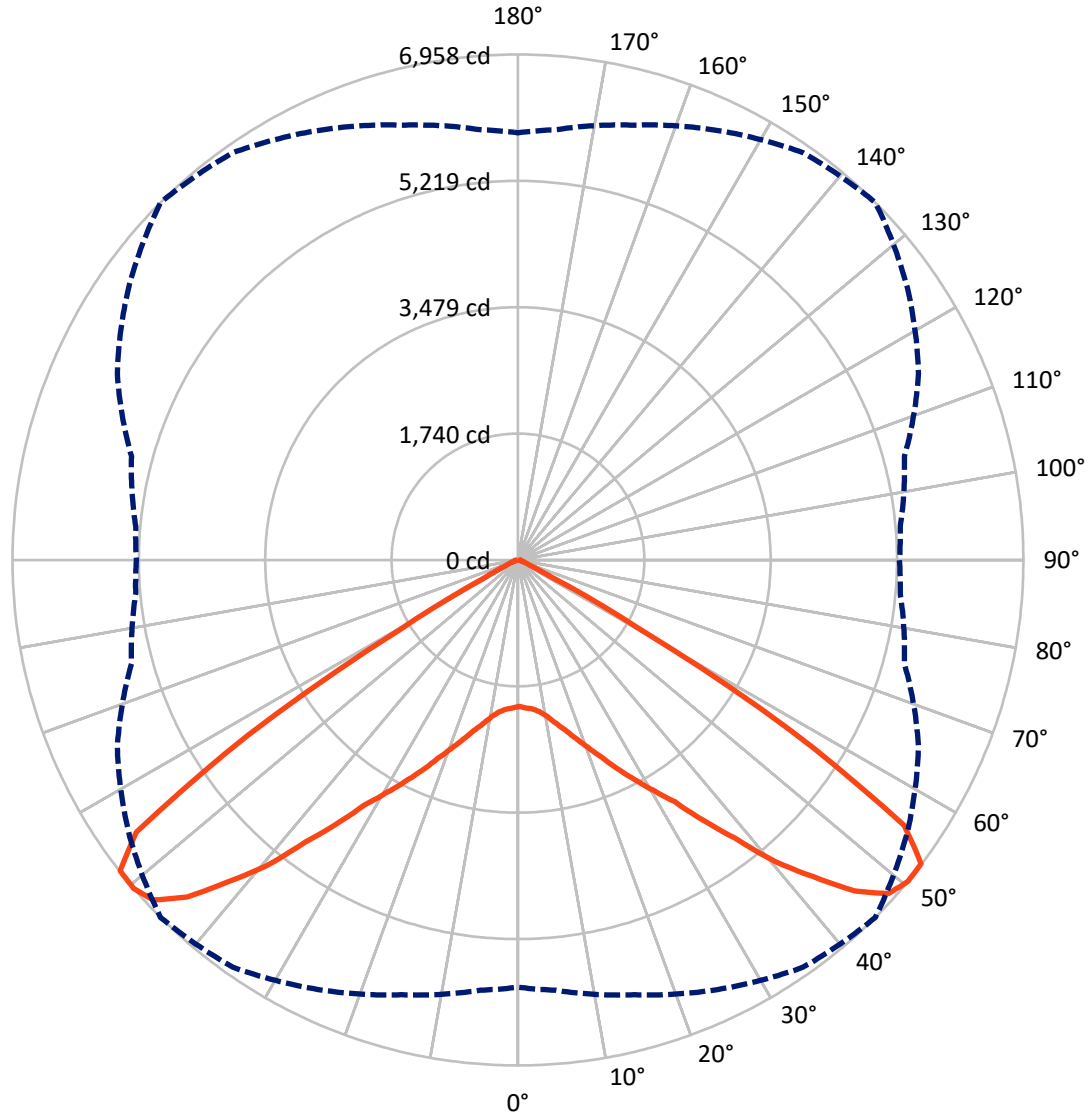
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7273.5	0.0	7273.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7273.5	0.0	7273.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	14547.0	0.0	14547.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.6	1.4
10°-20°	691.5	4.8
20°-30°	1412.4	9.7
30°-40°	2693.4	18.5
40°-50°	4538.7	31.2
50°-60°	4328.5	29.8
60°-70°	604.2	4.2
70°-80°	57.8	0.4
80°-90°	20.0	0.1
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°	14547.0	100.0
0°-180°	14547.0	100.0

Coefficient of Utilization



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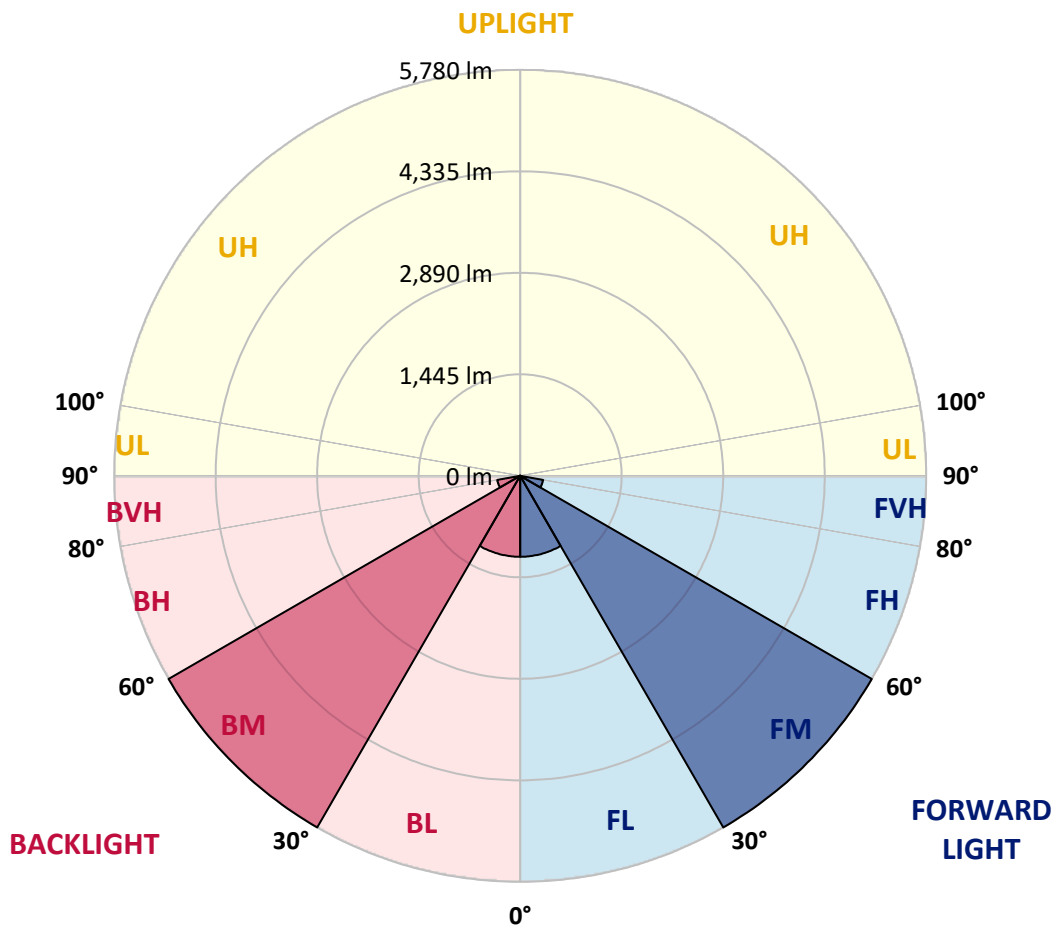
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1152.3	7.9			
FM (30°-60°)	5780.3	39.7			
FH (60°-80°)	331.0	2.3			G0/660
FVH (80°-90°)	10.0	0.1			G0/10
BL (0°-30°)	1152.3	7.9	B3/2500		
BM (30°-60°)	5780.3	39.7	B4/8500		
BH (60°-80°)	331.0	2.3	B1/500		G0/660
BVH (80°-90°)	10.0	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G0

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2016.8	2016.8	2016.8	2016.8	2016.8	2016.8	2016.8	2016.8	2016.8	2016.8	2016.8
2.5°	2009.4	2009.4	2007.0	2026.6	2016.8	2038.8	2036.4	2043.7	2051.0	2048.6	2068.2
5°	1992.3	1989.9	1989.9	2011.9	2033.9	2058.4	2080.4	2095.1	2119.6	2119.6	2144.1
7.5°	2009.4	1997.2	2014.3	2024.1	2065.7	2107.3	2144.1	2173.4	2229.7	2249.3	2242.0
10°	2014.3	2029.0	2041.3	2070.6	2122.0	2185.7	2217.5	2290.9	2354.5	2398.6	2408.4
12.5°	2046.2	2068.2	2102.4	2173.4	2219.9	2303.1	2347.2	2418.2	2506.3	2555.2	2589.5
15°	2107.3	2114.7	2158.7	2249.3	2349.6	2425.5	2494.1	2545.5	2631.1	2687.4	2689.9
17.5°	2185.7	2217.5	2278.7	2364.3	2469.6	2582.2	2636.0	2692.3	2724.1	2800.0	2817.1
20°	2342.3	2347.2	2405.9	2518.5	2650.7	2753.5	2792.7	2822.0	2809.8	2888.1	2902.8
22.5°	2489.2	2494.1	2567.5	2719.2	2861.2	2949.3	2966.4	2949.3	2912.6	2968.9	2973.8
25°	2638.5	2682.5	2736.4	2888.1	3064.3	3181.8	3184.3	3137.8	3061.9	3071.7	3096.2
27.5°	2871.0	2902.8	2959.1	3098.6	3292.0	3424.1	3402.1	3345.8	3247.9	3255.2	3247.9
30°	3142.7	3172.0	3218.5	3397.2	3539.2	3683.6	3715.4	3661.5	3514.7	3482.9	3519.6
32.5°	3470.6	3512.2	3597.9	3761.9	3881.8	3969.9	3992.0	3972.4	3835.3	3823.1	3847.5
35°	3869.6	3925.9	4004.2	4148.6	4246.5	4405.6	4405.6	4339.5	4214.7	4229.4	4226.9
37.5°	4290.6	4373.8	4496.2	4643.0	4775.2	4860.8	4833.9	4777.6	4652.8	4621.0	4652.8
40°	4819.2	4860.8	5015.0	5205.9	5367.5	5465.4	5350.3	5228.0	4929.4	4975.9	5061.5
42.5°	5301.4	5367.5	5485.0	5695.4	5879.0	5959.8	5822.7	5580.4	5220.6	5183.9	5247.5
45°	5712.6	5783.6	5937.8	6238.8	6432.2	6503.1	6199.6	5808.0	5396.8	5303.8	5330.8
47.5°	5986.7	6023.4	6238.8	6525.2	6701.4	6862.9	6427.3	5964.7	5480.1	5303.8	5294.1
50°	5881.5	5945.1	6197.2	6522.7	6843.4	6958.4	6542.3	6084.6	5507.0	5281.8	5252.4
52.5°	5223.1	5333.2	5614.7	6052.8	6537.4	6948.6	6701.4	6045.4	5497.2	5303.8	5347.9
55°	3634.6	3637.1	3979.7	4625.9	5482.5	6451.7	6468.9	6089.5	5560.8	5440.9	5443.4
57.5°	1461.2	1534.6	1796.5	2445.1	3235.7	4430.1	5267.1	5648.9	5568.2	5538.8	5614.7
60°	369.6	372.0	452.8	690.2	1138.1	1899.3	2758.4	3732.5	4297.9	4491.3	4518.2
62.5°	188.5	190.9	210.5	244.8	310.8	509.1	905.6	1436.7	2043.7	2352.1	2432.9
65°	154.2	154.2	166.4	183.6	186.0	195.8	235.0	335.3	487.1	553.1	560.5
67.5°	117.5	117.5	127.3	137.1	142.0	139.5	134.6	139.5	168.9	161.5	156.6
70°	73.4	75.9	80.8	90.6	95.5	97.9	100.3	105.2	119.9	124.8	119.9
72.5°	44.1	44.1	46.5	53.8	61.2	66.1	73.4	78.3	85.7	97.9	95.5
75°	19.6	19.6	24.5	31.8	39.2	46.5	53.8	61.2	66.1	73.4	75.9
77.5°	4.9	7.3	12.2	22.0	29.4	39.2	49.0	56.3	61.2	61.2	58.7
80°	2.4	2.4	9.8	17.1	31.8	41.6	53.8	58.7	66.1	61.2	53.8
82.5°	2.4	2.4	9.8	17.1	29.4	41.6	56.3	63.6	68.5	61.2	51.4
85°	0.0	2.4	7.3	14.7	24.5	29.4	24.5	17.1	9.8	9.8	7.3
87.5°	0.0	0.0	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)