

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: P532459

Luminaire Tested: **GALN-SA7D-750-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532459
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-750-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32337 lumens
Efficiency: N/A
Efficacy: 74.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

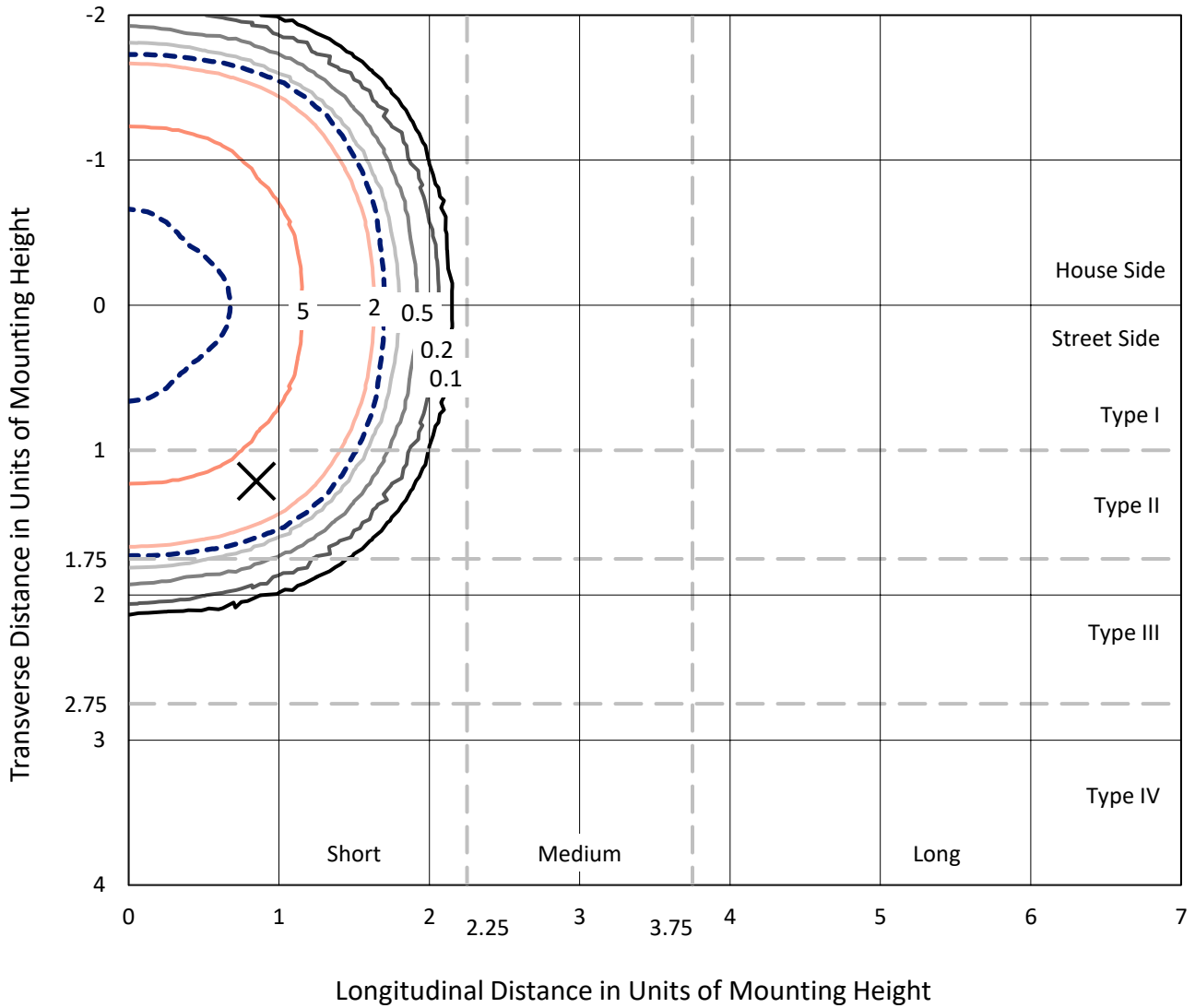
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

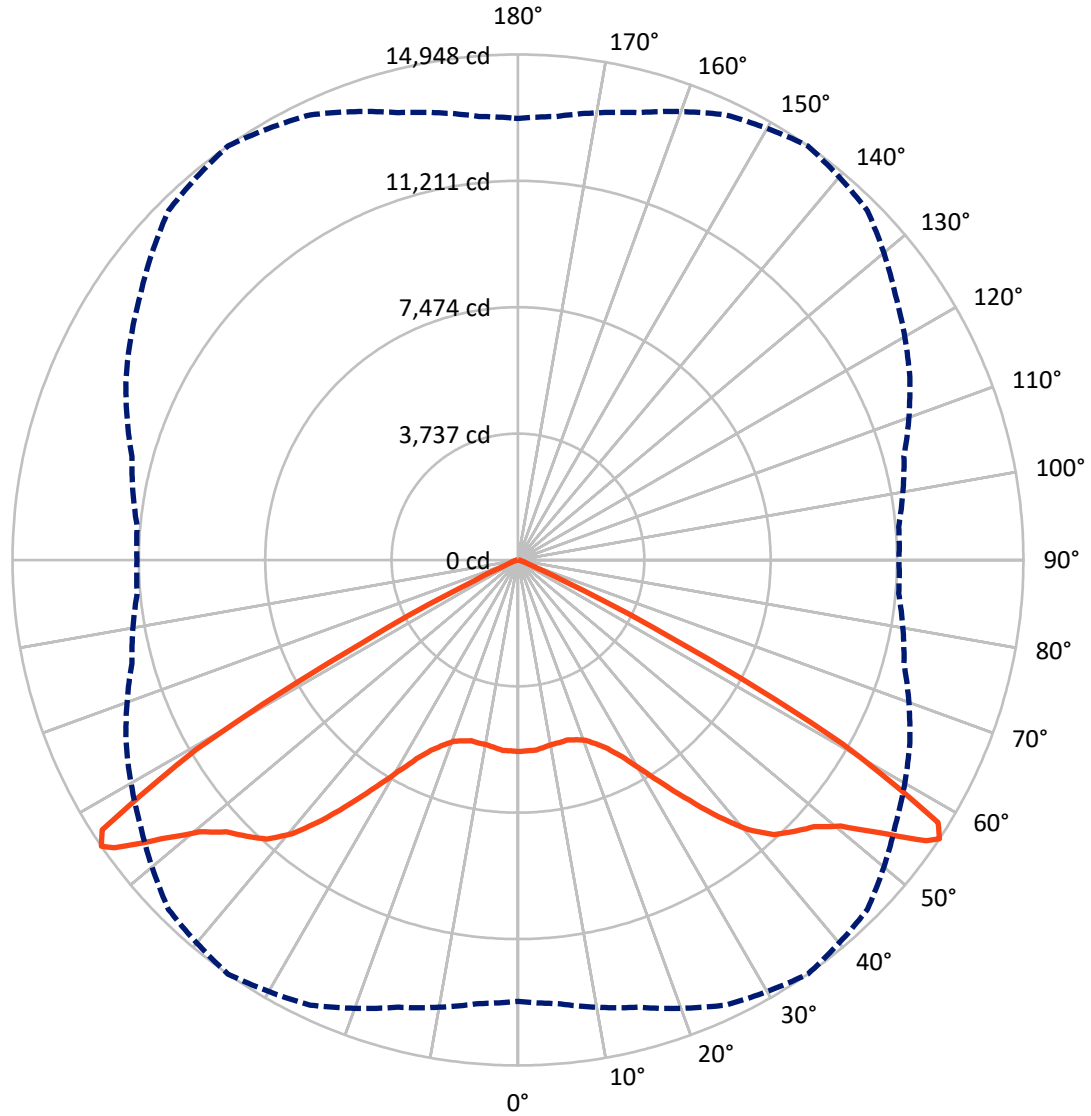
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16168.5	0.0	16168.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16168.5	0.0	16168.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	32337.0	0.0	32337.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	532.5	1.6
10°-20°	1554.7	4.8
20°-30°	2815.4	8.7
30°-40°	5220.8	16.1
40°-50°	8569.5	26.5
50°-60°	11040.1	34.1
60°-70°	2433.1	7.5
70°-80°	141.2	0.4
80°-90°	29.7	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°	32337.0	100.0
0°-180°	32337.0	100.0



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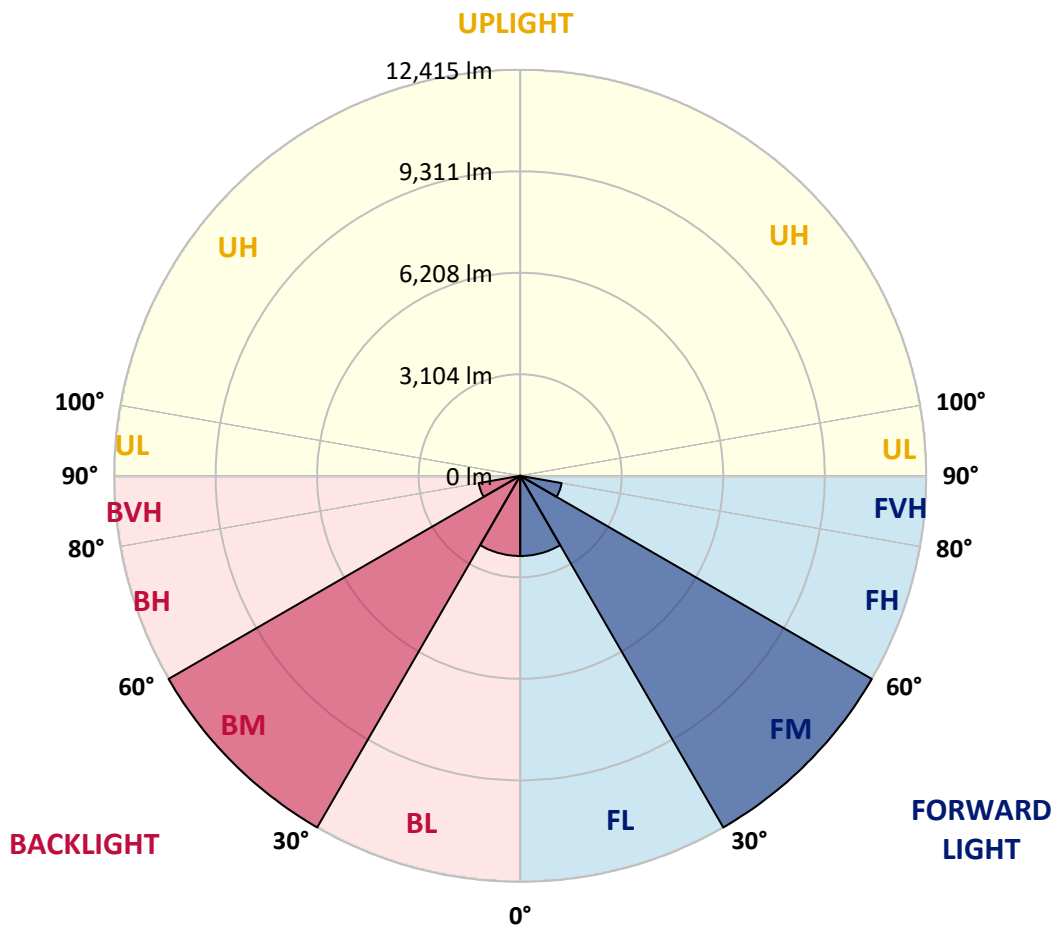
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2451.3	7.6			
FM (30°-60°)	12415.2	38.4			
FH (60°-80°)	1287.1	4.0			G1/1800
FVH (80°-90°)	14.9	0.0			G1/100
BL (0°-30°)	2451.3	7.6	B3/2500		
BM (30°-60°)	12415.2	38.4	B5		
BH (60°-80°)	1287.1	4.0	B3/2500		G1/1800
BVH (80°-90°)	14.9	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5666.1	5666.1	5666.1	5666.1	5666.1	5666.1	5666.1	5666.1	5666.1	5666.1	5666.1
2.5°	5677.9	5677.9	5683.7	5689.6	5648.6	5631.0	5636.8	5625.1	5619.3	5636.8	5636.8
5°	5660.3	5660.3	5642.7	5648.6	5648.6	5595.8	5595.8	5607.5	5607.5	5572.4	5560.7
7.5°	5613.4	5601.7	5578.2	5607.5	5590.0	5590.0	5548.9	5519.7	5507.9	5531.4	5507.9
10°	5513.8	5519.7	5543.1	5554.8	5543.1	5578.2	5507.9	5466.9	5425.9	5408.3	5408.3
12.5°	5466.9	5502.1	5466.9	5496.2	5537.2	5507.9	5466.9	5437.6	5379.0	5355.6	5355.6
15°	5461.1	5484.5	5496.2	5537.2	5519.7	5531.4	5449.3	5414.2	5326.3	5285.3	5267.7
17.5°	5455.2	5484.5	5502.1	5578.2	5590.0	5595.8	5531.4	5425.9	5349.7	5308.7	5267.7
20°	5519.7	5531.4	5566.5	5642.7	5689.6	5771.6	5654.4	5543.1	5379.0	5332.1	5314.6
22.5°	5601.7	5660.3	5695.4	5777.5	5900.5	5970.8	5818.5	5677.9	5507.9	5449.3	5379.0
25°	5865.4	5853.6	5912.2	6082.2	6181.8	6234.5	6111.5	5906.4	5683.7	5613.4	5625.1
27.5°	6193.5	6205.2	6257.9	6445.5	6591.9	6674.0	6527.5	6257.9	6041.1	5924.0	5912.2
30°	6621.2	6609.5	6668.1	6920.1	7183.7	7306.8	7049.0	6732.6	6521.6	6369.3	6404.4
32.5°	7072.4	7078.3	7242.3	7470.9	7898.6	8138.8	7722.8	7336.1	7019.7	6914.2	6861.5
35°	7740.4	7769.7	7898.6	8250.2	8724.8	9035.4	8578.3	8115.4	7752.1	7558.8	7582.2
37.5°	8566.6	8537.3	8754.1	9135.0	9633.0	9861.5	9474.8	8947.5	8578.3	8449.4	8531.4
40°	9445.5	9474.8	9586.1	9931.9	10488.5	10640.9	10066.6	9779.5	9457.2	9392.8	9492.4
42.5°	10324.4	10306.9	10388.9	10699.4	11103.8	10998.3	10658.4	10488.5	10260.0	10131.1	10265.8
45°	10969.0	10939.7	11092.0	11303.0	11449.5	11250.2	11097.9	11039.3	10922.1	10781.5	10904.5
47.5°	11596.0	11572.5	11719.0	11777.6	11789.3	11525.6	11554.9	11660.4	11367.4	11074.5	11215.1
50°	12129.2	12088.2	12269.8	12398.7	12369.4	11947.5	12053.0	11947.5	11490.5	11144.8	11092.0
52.5°	13019.8	13037.4	13230.8	13465.1	13394.8	13043.3	12890.9	12410.4	11824.5	11513.9	11332.3
55°	13582.3	13494.4	13828.4	14572.6	14654.6	14291.3	13617.5	12908.5	12029.6	11648.7	11601.8
56°	13055.0	13166.3	13693.7	14525.7	14947.6	14613.6	13635.1	12785.4	11818.6	11303.0	11267.8
57.5°	11713.1	11654.5	12369.4	13506.2	14654.6	14514.0	13154.6	11906.5	10781.5	10201.4	10131.1
60°	7289.2	7459.1	8086.1	9492.4	11027.6	11097.9	9750.2	8677.9	7365.4	6849.8	6972.8
62.5°	2853.6	2707.1	3099.7	4148.5	5203.2	5437.6	4927.8	4095.8	3363.4	2853.6	2818.4
65°	662.1	644.5	726.6	1002.0	1400.4	1623.1	1541.0	1107.4	814.5	773.5	714.9
67.5°	375.0	375.0	357.4	357.4	392.6	416.0	398.4	392.6	410.2	427.7	421.9
70°	263.7	257.8	246.1	252.0	240.2	240.2	257.8	287.1	310.6	310.6	316.4
72.5°	158.2	158.2	158.2	175.8	175.8	175.8	193.4	216.8	222.7	216.8	210.9
75°	70.3	70.3	82.0	99.6	111.3	117.2	134.8	146.5	158.2	146.5	134.8
77.5°	17.6	17.6	29.3	41.0	52.7	64.5	87.9	105.5	111.3	105.5	87.9
80°	5.9	5.9	11.7	29.3	52.7	64.5	87.9	93.8	99.6	87.9	70.3
82.5°	5.9	5.9	11.7	29.3	41.0	52.7	70.3	82.0	87.9	76.2	70.3
85°	0.0	5.9	11.7	23.4	35.2	46.9	46.9	35.2	29.3	17.6	23.4
87.5°	0.0	0.0	5.9	5.9	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)