

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: P533373

Luminaire Tested: **GALN-SA8D-740-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533373
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-740-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32584 lumens
Efficiency: N/A
Efficacy: 66.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

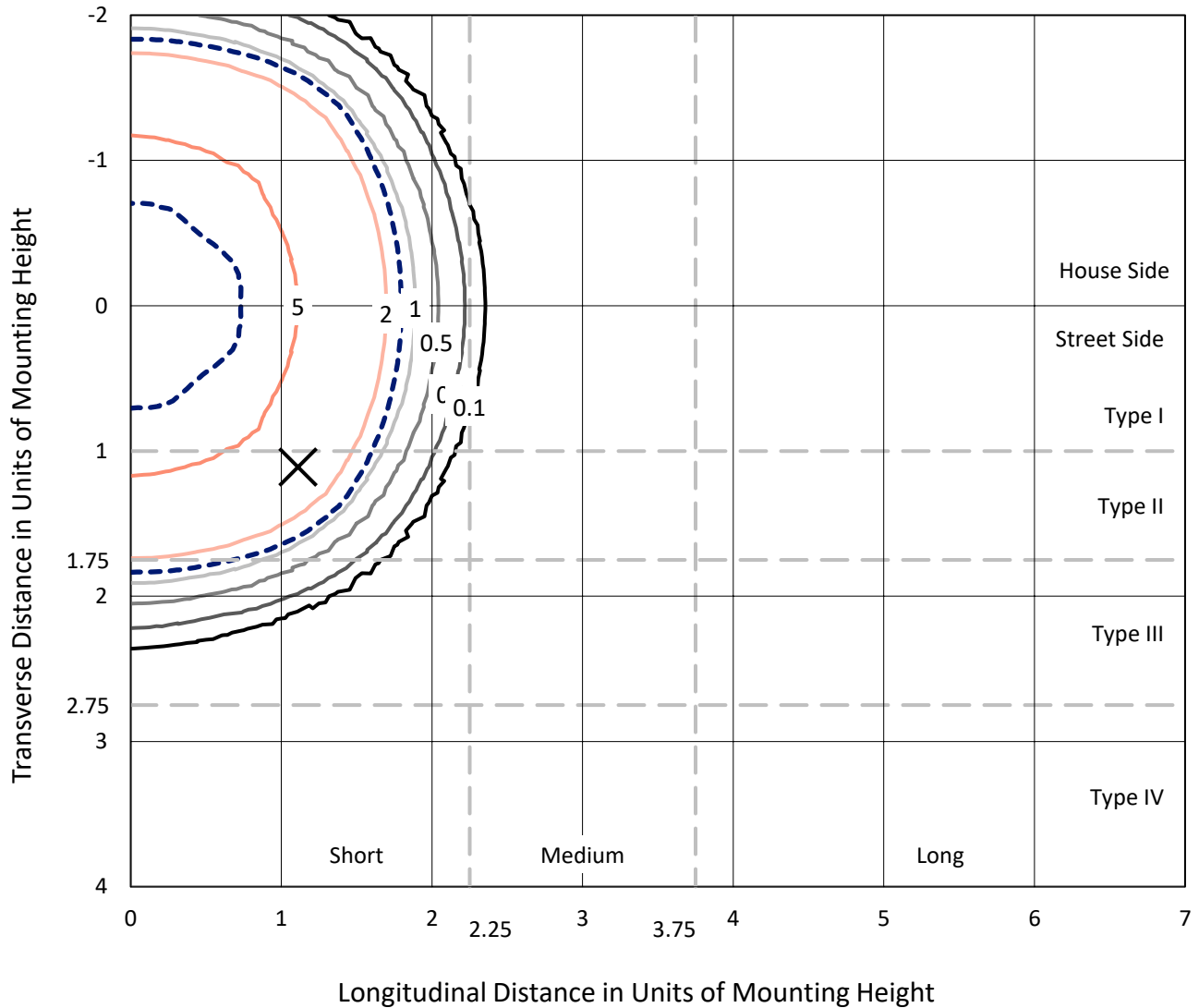
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

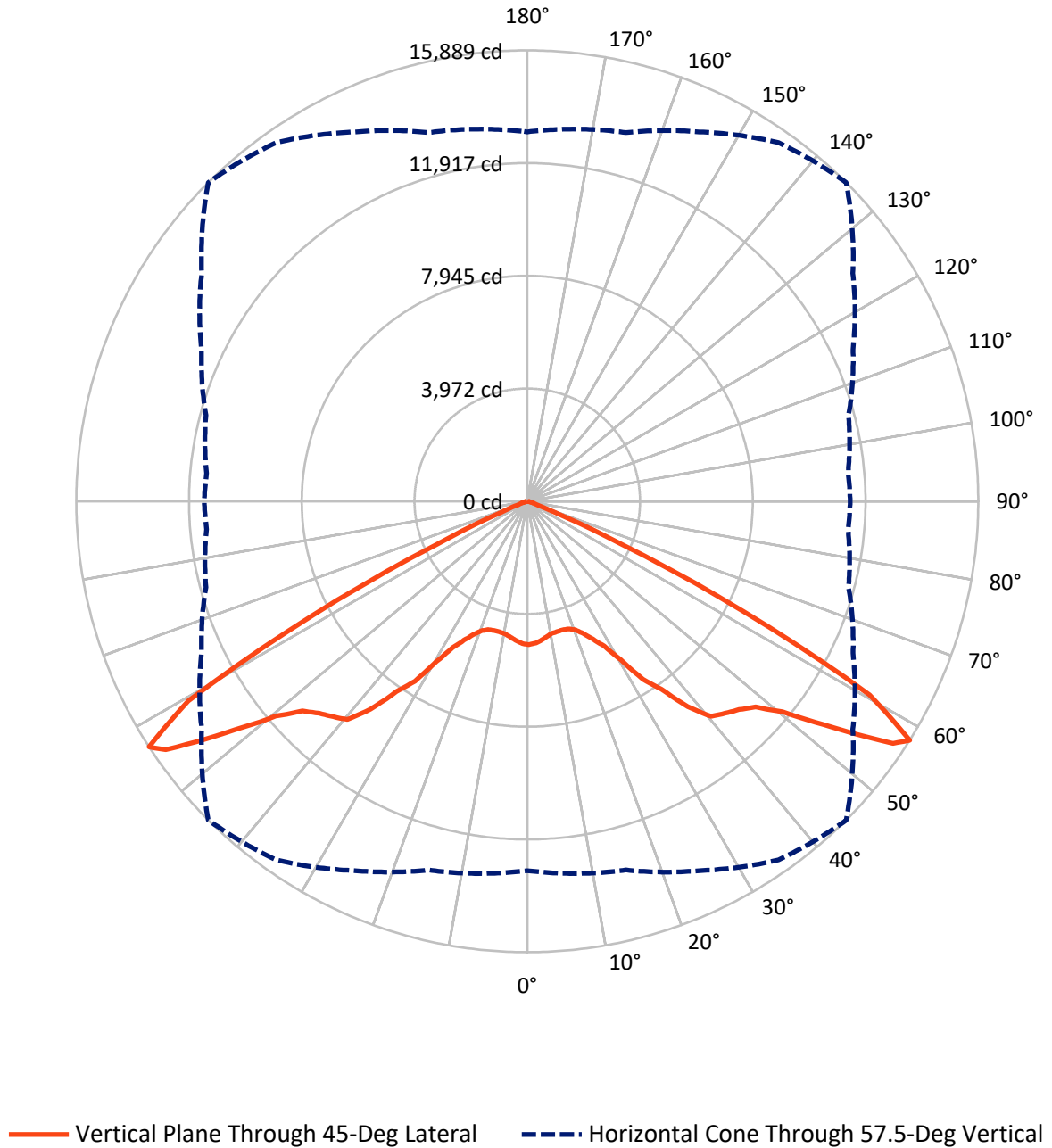
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16292.0	0.0	16292.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16292.0	0.0	16292.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	32584.0	0.0	32584.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	464.4	1.4
10°-20°	1342.5	4.1
20°-30°	2478.0	7.6
30°-40°	4873.3	15.0
40°-50°	7937.3	24.4
50°-60°	11319.6	34.7
60°-70°	3919.1	12.0
70°-80°	210.2	0.6
80°-90°	39.5	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°	32584.0	100.0
0°-180°	32584.0	100.0



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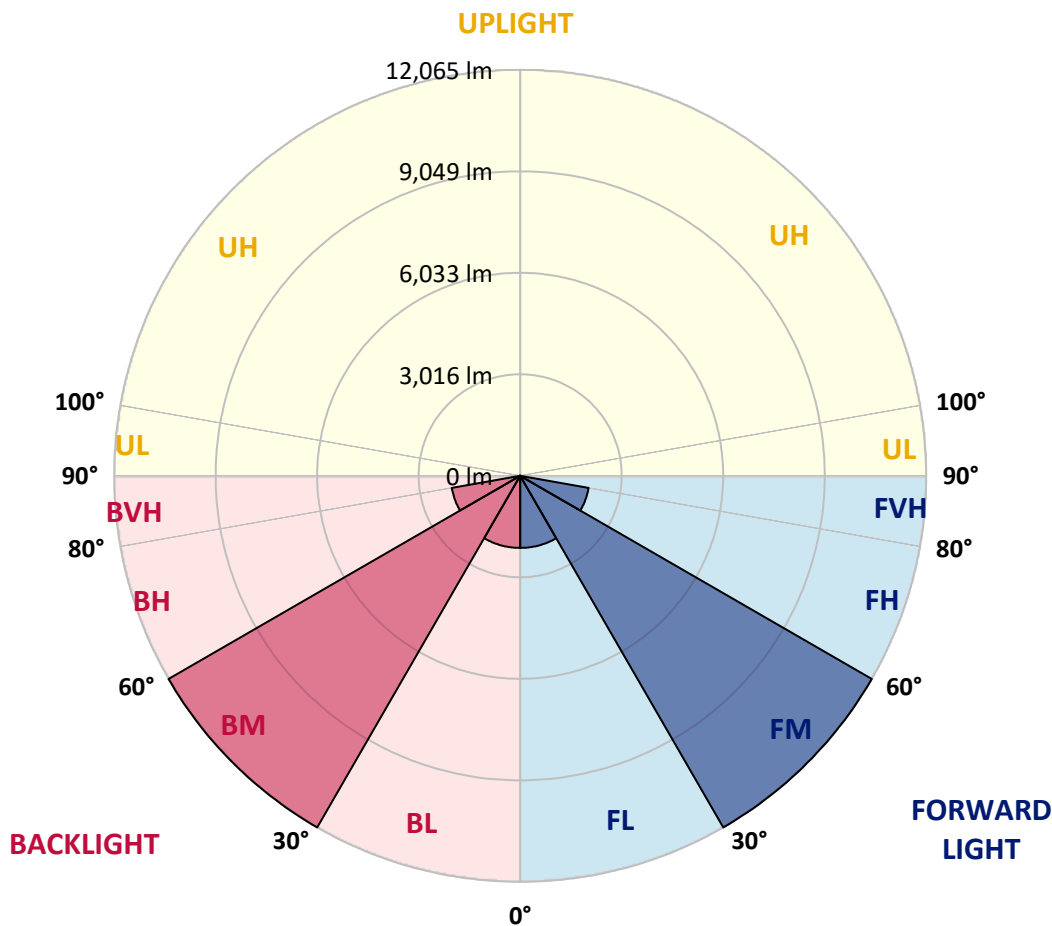
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2142.5	6.6			
FM (30°-60°)	12065.1	37.0			
FH (60°-80°)	2064.7	6.3			G2/5000
FVH (80°-90°)	19.7	0.1			G1/100
BL (0°-30°)	2142.5	6.6	B3/2500		
BM (30°-60°)	12065.1	37.0	B5		
BH (60°-80°)	2064.7	6.3	B3/2500		G2/5000
BVH (80°-90°)	19.7	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5054.1	5054.1	5054.1	5054.1	5054.1	5054.1	5054.1	5054.1	5054.1	5054.1	5054.1
2.5°	5040.5	5067.7	5033.7	5020.2	5013.4	5013.4	4993.0	4993.0	4986.2	4993.0	4965.8
5°	4959.0	4986.2	4986.2	4979.4	4938.6	4931.8	4911.5	4897.9	4904.7	4877.5	4897.9
7.5°	4877.5	4897.9	4870.7	4863.9	4850.3	4823.2	4816.4	4755.2	4762.0	4762.0	4775.6
10°	4863.9	4857.1	4816.4	4782.4	4741.6	4734.8	4714.5	4700.9	4700.9	4694.1	4714.5
12.5°	4863.9	4829.9	4823.2	4748.4	4680.5	4707.7	4653.3	4619.4	4666.9	4680.5	4707.7
15°	4857.1	4891.1	4775.6	4741.6	4694.1	4700.9	4653.3	4619.4	4646.5	4660.1	4680.5
17.5°	4897.9	4877.5	4843.5	4775.6	4755.2	4728.0	4666.9	4639.7	4639.7	4673.7	4680.5
20°	5006.6	4952.2	4884.3	4850.3	4870.7	4836.7	4762.0	4660.1	4687.3	4714.5	4734.8
22.5°	5108.5	5067.7	5020.2	4999.8	5115.3	5060.9	4931.8	4816.4	4775.6	4823.2	4857.1
25°	5305.5	5305.5	5217.2	5244.3	5373.4	5380.2	5230.7	5026.9	4999.8	5020.2	5033.7
27.5°	5706.3	5726.6	5651.9	5679.1	5733.4	5781.0	5651.9	5482.1	5421.0	5414.2	5434.5
30°	6141.0	6181.8	6175.0	6290.5	6446.7	6473.9	6283.7	6005.2	5821.7	5787.8	5815.0
32.5°	6711.7	6732.0	6718.4	6854.3	7275.5	7472.5	6976.6	6582.6	6338.0	6399.2	6338.0
35°	7785.0	7764.6	7615.1	7642.3	7988.8	8131.4	7655.9	7404.6	7289.1	7411.4	7384.2
37.5°	8708.8	8634.1	8511.8	8688.5	9048.5	9177.6	8681.7	8240.1	8029.5	8233.3	8321.6
40°	9490.1	9299.9	9130.0	9306.6	9789.0	9965.6	9238.7	8878.7	8797.2	8946.6	9136.8
42.5°	10149.0	10026.7	9802.5	9816.1	10135.4	10216.9	9632.7	9422.1	9340.6	9578.4	9673.5
45°	10617.7	10502.2	10291.7	10278.1	10522.6	10468.3	9945.2	9802.5	9850.1	10006.3	10053.9
47.5°	10855.5	10916.6	10794.3	10828.3	10957.4	10828.3	10413.9	10413.9	10305.2	10400.3	10352.8
50°	11541.6	11351.4	11507.6	11507.6	11643.5	11657.1	11242.7	11093.2	10801.1	10638.1	10638.1
52.5°	12343.2	12356.8	12417.9	12642.1	12873.1	13070.1	12479.1	11840.5	11351.4	11140.8	11113.6
55°	13002.1	13138.0	13382.5	13803.7	14469.5	14741.2	13722.2	12581.0	11983.2	11657.1	11589.2
56°	13362.2	13233.1	13654.3	14231.7	15101.2	15454.5	13926.0	12730.4	12071.5	11704.6	11697.8
57.5°	13015.7	13158.4	13450.5	14360.8	15427.3	15889.2	14000.7	12662.5	11718.2	11344.6	11378.6
60°	10278.1	10413.9	10807.9	11826.9	13498.0	13858.1	11847.3	10441.1	9598.8	9062.1	9068.9
62.5°	5815.0	5916.9	6222.5	7166.8	8206.2	8552.6	7384.2	6446.7	5862.5	5563.6	5468.5
65°	2139.8	2099.1	2146.6	2629.0	3267.5	3559.6	3070.5	2595.0	2289.3	2180.6	2139.8
67.5°	801.6	740.5	692.9	740.5	930.7	985.0	903.5	754.0	706.5	726.9	740.5
70°	495.9	468.7	373.6	353.2	346.5	339.7	360.0	380.4	434.8	509.5	523.1
72.5°	346.5	326.1	264.9	251.3	237.8	231.0	264.9	292.1	339.7	394.0	400.8
75°	135.9	142.7	135.9	149.4	156.2	163.0	190.2	210.6	231.0	231.0	224.2
77.5°	27.2	27.2	40.8	54.3	67.9	88.3	129.1	149.4	156.2	149.4	129.1
80°	0.0	0.0	13.6	27.2	54.3	74.7	115.5	129.1	142.7	129.1	101.9
82.5°	0.0	0.0	13.6	34.0	54.3	67.9	108.7	135.9	156.2	142.7	108.7
85°	0.0	0.0	13.6	27.2	40.8	47.6	47.6	34.0	34.0	20.4	13.6
87.5°	0.0	0.0	0.0	0.0	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)