

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: P533111

Luminaire Tested: **GALN-SA8C-735-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533111
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-735-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36330 lumens
Efficiency: N/A
Efficacy: 84.7 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

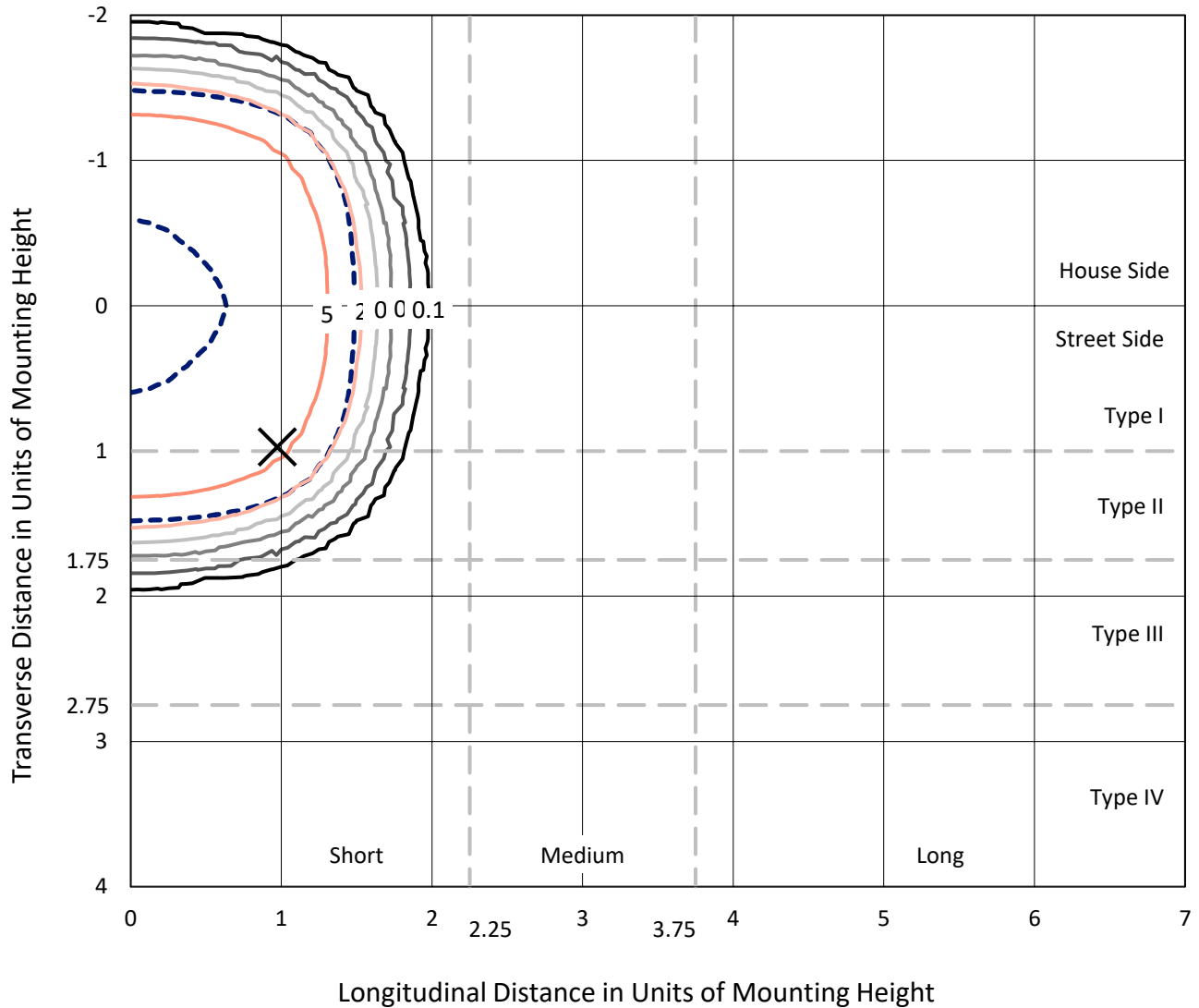
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

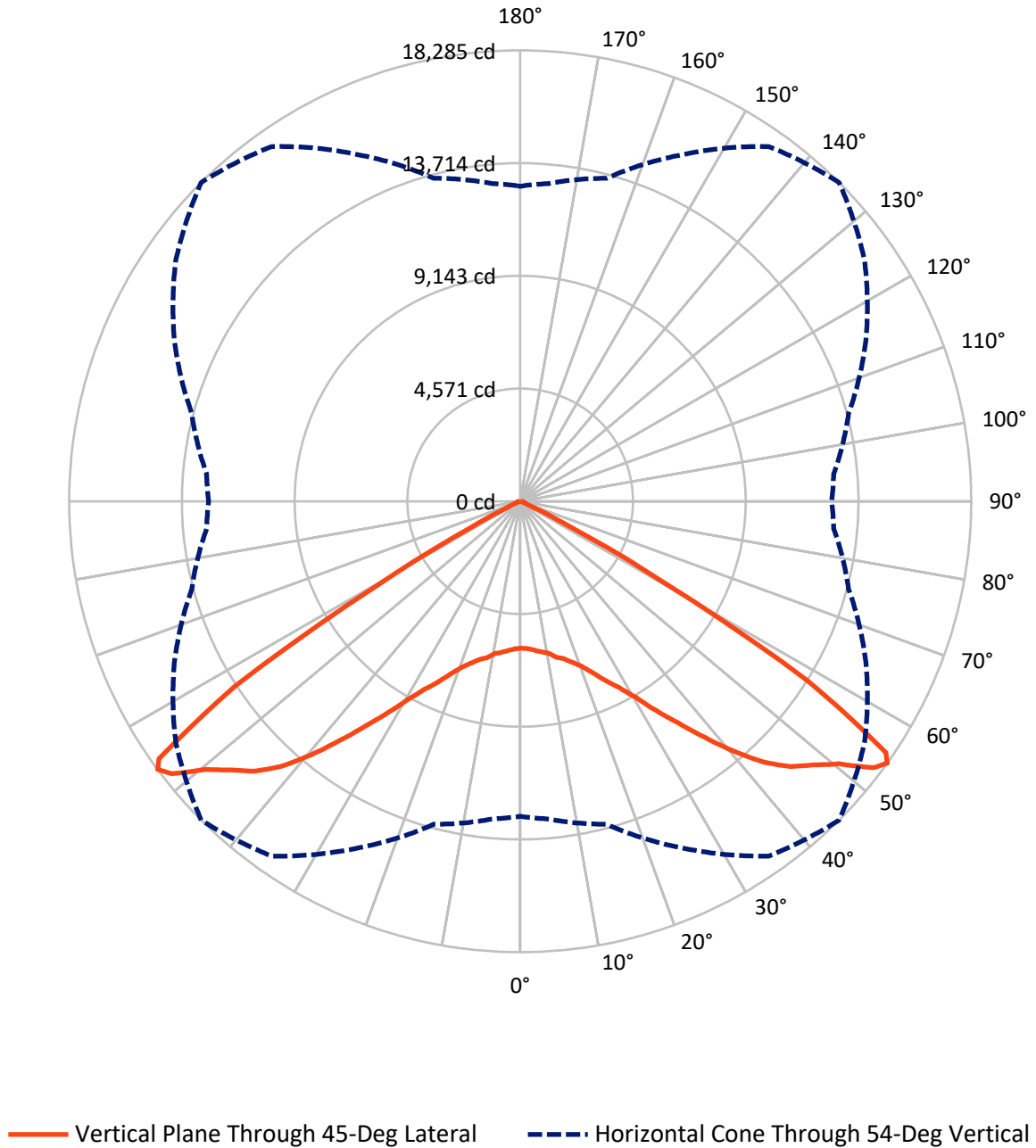
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 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	18165.0	0.0	18165.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18165.0	0.0	18165.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	36330.0	0.0	36330.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	583.0	1.6
10°-20°	1888.1	5.2
20°-30°	3700.6	10.2
30°-40°	6654.5	18.3
40°-50°	11391.2	31.4
50°-60°	11022.1	30.3
60°-70°	943.5	2.6
70°-80°	111.8	0.3
80°-90°	35.1	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°	36330.0	100.0
0°-180°	36330.0	100.0

Coefficient of Utilization



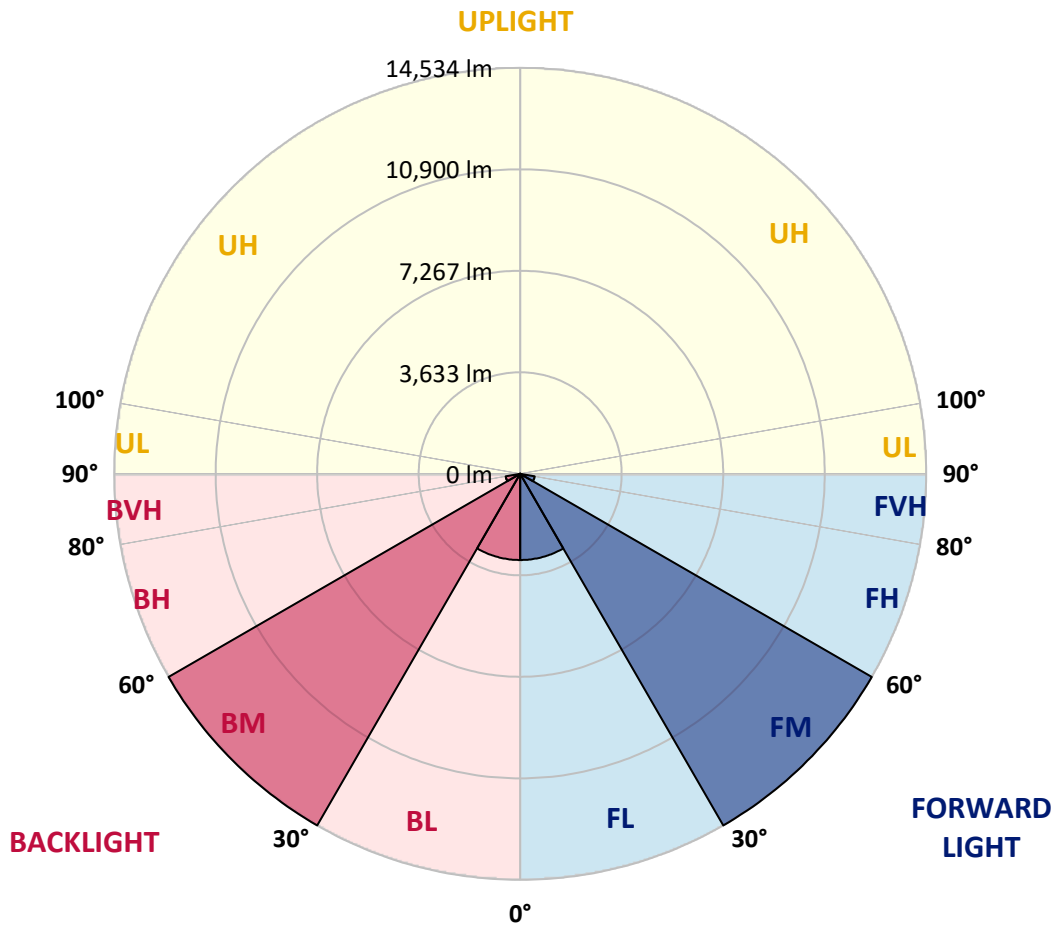
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3085.9	8.5			
FM (30°-60°)	14533.9	40.0			
FH (60°-80°)	527.7	1.5			G0/660
FVH (80°-90°)	17.5	0.0			G1/100
BL (0°-30°)	3085.9	8.5	B4/5000		
BM (30°-60°)	14533.9	40.0	B5		
BH (60°-80°)	527.7	1.5	B2/1000		G0/660
BVH (80°-90°)	17.5	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°	5957.0	5957.0	5957.0	5957.0	5957.0	5957.0	5957.0	5957.0	5957.0	5957.0	5957.0
2.5°	5985.8	6020.3	5997.3	6014.5	6014.5	5985.8	6003.0	5934.0	5980.0	5945.5	5951.2
5°	6077.9	6072.1	6072.1	6077.9	6054.8	6066.3	6043.3	6020.3	6003.0	5980.0	6049.1
7.5°	6193.0	6193.0	6152.7	6164.2	6152.7	6169.9	6123.9	6077.9	6060.6	6043.3	6031.8
10°	6302.3	6290.8	6273.5	6325.3	6285.1	6262.0	6239.0	6210.2	6146.9	6123.9	6100.9
12.5°	6463.5	6457.7	6434.7	6486.5	6463.5	6486.5	6400.2	6325.3	6313.8	6239.0	6279.3
15°	6653.4	6705.2	6664.9	6664.9	6653.4	6624.6	6590.1	6555.6	6452.0	6423.2	6428.9
17.5°	6900.9	6883.6	6889.4	6889.4	6946.9	6872.1	6803.1	6716.7	6664.9	6647.7	6590.1
20°	7136.9	7159.9	7154.1	7194.4	7229.0	7148.4	7073.6	7062.1	6918.2	6941.2	6860.6
22.5°	7551.3	7534.0	7562.8	7591.6	7568.5	7557.0	7488.0	7401.6	7275.0	7217.5	7205.9
25°	7988.7	7959.9	7908.1	7977.2	8011.7	8063.5	7931.1	7885.1	7689.4	7603.1	7608.8
27.5°	8362.8	8403.1	8460.6	8489.4	8575.8	8558.5	8466.4	8316.8	8167.1	8069.3	8006.0
30°	8875.0	8898.1	8995.9	9036.2	9185.8	9226.1	9082.2	8909.6	8644.8	8518.2	8443.4
32.5°	9347.0	9508.2	9502.4	9703.8	9945.6	10112.5	9853.5	9588.7	9324.0	9174.3	9042.0
35°	10112.5	10083.7	10250.6	10463.6	10855.0	11044.9	10762.9	10457.8	10054.9	9813.2	9709.6
37.5°	10826.2	10837.7	11062.2	11401.7	11850.7	12144.2	11896.7	11396.0	10981.6	10670.8	10526.9
40°	11862.2	11885.2	12115.4	12501.0	13007.5	13324.1	13036.3	12529.8	11977.3	11735.6	11735.6
42.5°	13076.6	13174.4	13324.1	13657.9	14112.6	14463.7	14204.7	13807.6	13249.3	12938.5	12984.5
45°	14325.5	14371.6	14469.4	14964.4	15177.4	15350.0	15108.3	14924.1	14550.0	14170.1	14106.8
47.5°	15493.9	15511.2	15799.0	15954.4	16121.3	15977.4	16132.8	15891.1	15470.9	15102.5	15027.7
50°	16011.9	15983.1	16391.8	16863.7	16990.4	16737.1	16604.7	16443.6	15804.7	15361.5	15165.9
52.5°	14504.0	14670.9	15430.6	16742.9	17732.8	17945.8	17174.5	16432.1	15240.7	14377.3	14245.0
54°	12777.3	12932.7	13560.1	15505.4	17565.9	18285.4	17042.2	15465.1	13784.5	12760.0	12627.7
55°	11067.9	10895.2	12034.8	14020.5	16783.2	17986.1	16518.4	14216.2	12293.8	11355.7	11171.5
57.5°	5991.5	6020.3	6981.5	8857.8	11793.1	13790.3	12178.7	9617.5	7263.5	6210.2	6118.1
60°	1899.3	1945.4	2365.5	3579.9	5634.7	6728.2	5767.1	3862.0	2670.6	2141.1	2054.7
62.5°	592.8	615.8	673.4	1001.5	1542.5	2204.4	1726.7	1036.0	771.2	707.9	719.4
65°	362.6	362.6	368.4	391.4	460.4	535.3	518.0	454.7	437.4	425.9	420.2
67.5°	236.0	230.2	241.7	259.0	270.5	276.3	293.5	310.8	305.0	293.5	293.5
70°	143.9	138.1	149.6	172.7	178.4	189.9	207.2	230.2	224.5	213.0	218.7
72.5°	80.6	80.6	86.3	103.6	120.9	132.4	149.6	166.9	172.7	166.9	166.9
75°	28.8	34.5	46.0	63.3	74.8	92.1	109.4	126.6	143.9	132.4	126.6
77.5°	11.5	11.5	23.0	40.3	57.6	74.8	103.6	120.9	132.4	120.9	109.4
80°	5.8	5.8	17.3	34.5	51.8	69.1	86.3	103.6	109.4	97.8	86.3
82.5°	5.8	5.8	17.3	34.5	51.8	63.3	92.1	103.6	115.1	103.6	86.3
85°	0.0	5.8	17.3	34.5	46.0	51.8	51.8	34.5	28.8	17.3	17.3
87.5°	0.0	0.0	5.8	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)