

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: P530538

Luminaire Tested: **GALN-SA5D-735-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530538
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5D-735-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32506 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

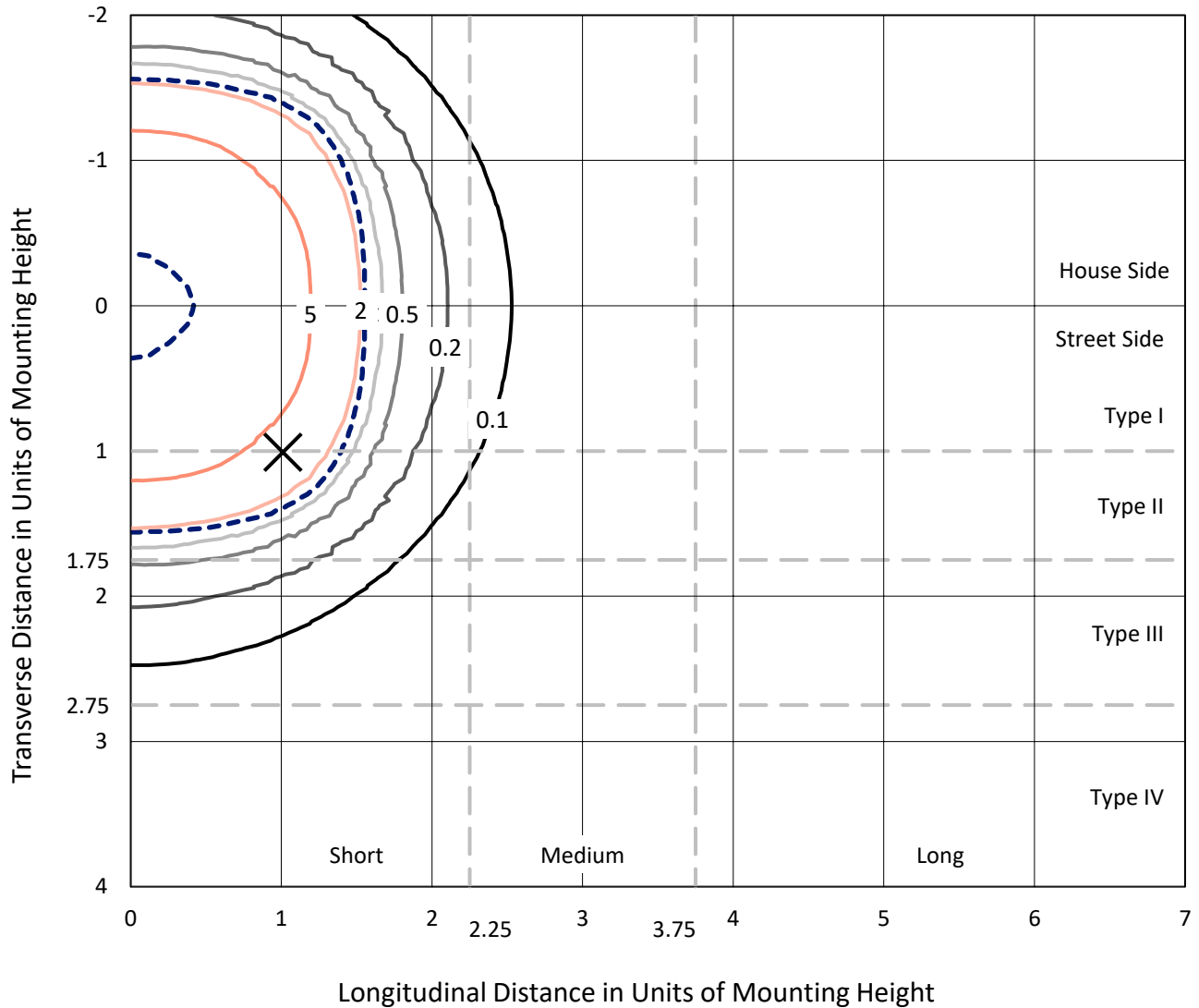
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

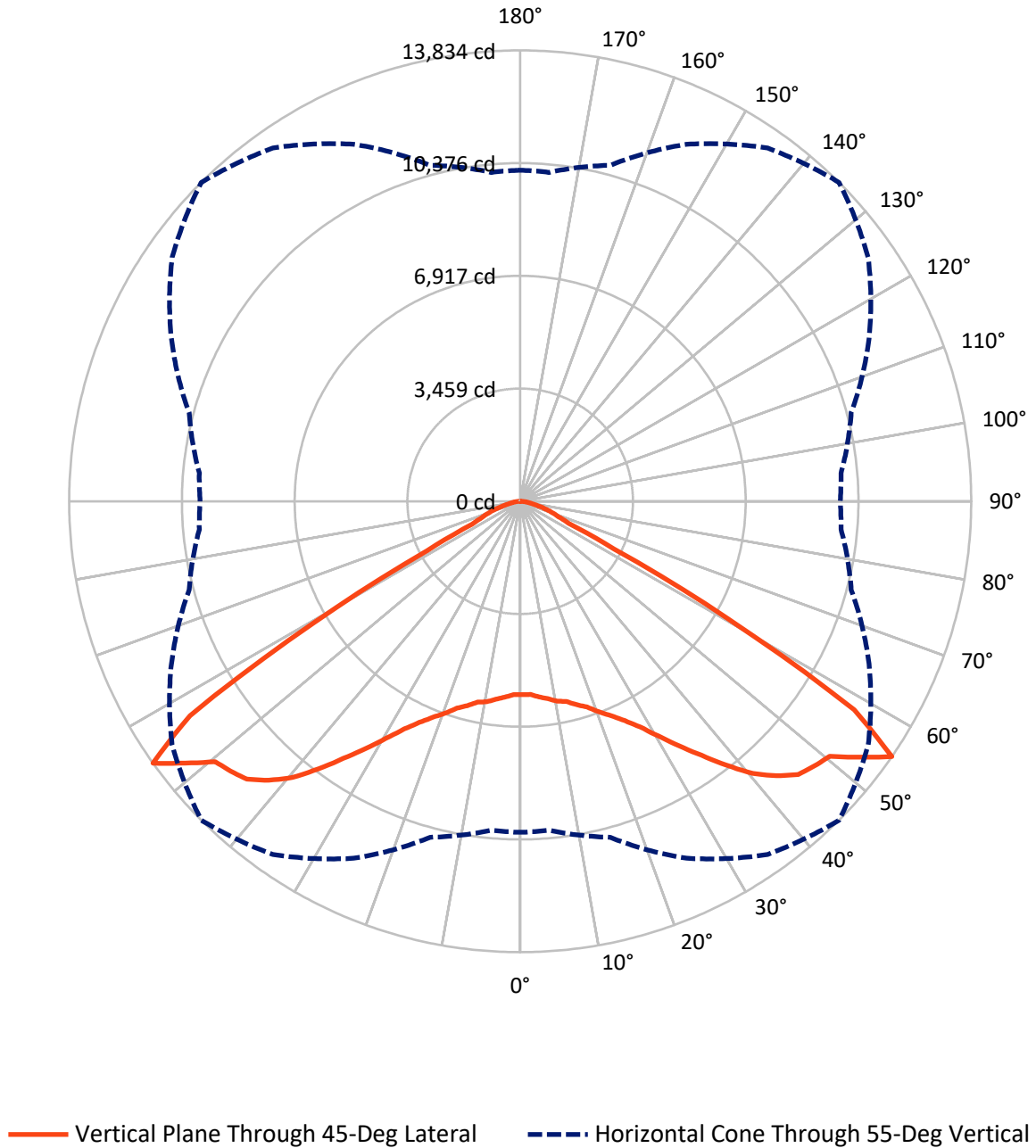
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 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	16253.0	0.0	16253.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16253.0	0.0	16253.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	32506.0	0.0	32506.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	579.8	1.8
10°-20°	1837.1	5.7
20°-30°	3425.6	10.5
30°-40°	5735.6	17.6
40°-50°	8925.1	27.5
50°-60°	9267.0	28.5
60°-70°	1965.2	6.0
70°-80°	647.2	2.0
80°-90°	123.3	0.4
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°	32506.0	100.0
0°-180°	32506.0	100.0

Coefficient of Utilization

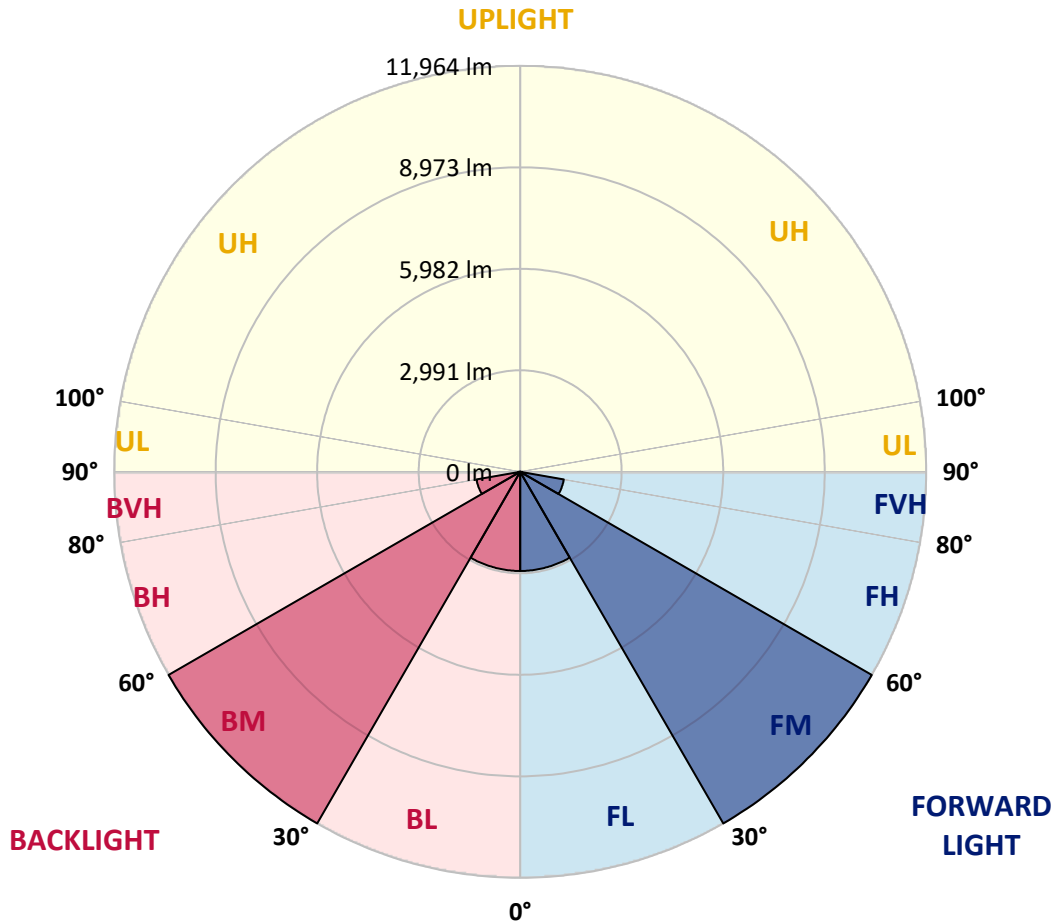


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2921.3	9.0			
FM (30°-60°)	11963.9	36.8			
FH (60°-80°)	1306.2	4.0			G1/1800
FVH (80°-90°)	61.6	0.2			G1/100
BL (0°-30°)	2921.3	9.0	B4/5000		
BM (30°-60°)	11963.9	36.8	B5		
BH (60°-80°)	1306.2	4.0	B3/2500		G1/1800
BVH (80°-90°)	61.6	0.2			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°	5935.1	5935.1	5935.1	5935.1	5935.1	5935.1	5935.1	5935.1	5935.1	5935.1	5935.1
2.5°	6005.8	5978.3	5931.2	5966.5	5994.0	5935.1	5958.7	5970.5	5962.6	5931.2	5943.0
5°	6092.2	6076.5	6037.2	6064.7	6029.4	6029.4	6005.8	5974.4	6021.5	6013.7	6033.3
7.5°	6092.2	6072.6	6151.1	6100.1	6115.8	6115.8	6076.5	6045.1	6068.7	6033.3	6013.7
10°	6214.0	6241.5	6206.1	6217.9	6210.1	6237.6	6178.6	6159.0	6139.4	6127.6	6104.0
12.5°	6359.3	6339.7	6351.5	6343.6	6371.1	6300.4	6265.1	6221.9	6257.2	6206.1	6241.5
15°	6477.2	6465.4	6477.2	6508.6	6481.1	6477.2	6414.3	6371.1	6316.1	6327.9	6272.9
17.5°	6638.2	6626.4	6630.4	6657.9	6653.9	6634.3	6587.1	6504.7	6485.0	6453.6	6418.2
20°	6877.8	6858.2	6850.3	6862.1	6881.7	6897.5	6803.2	6771.8	6705.0	6653.9	6595.0
22.5°	7082.1	7074.2	7105.6	7054.6	7097.8	7144.9	7054.6	7038.9	6873.9	6846.4	6783.5
25°	7364.9	7353.1	7333.5	7408.1	7459.1	7455.2	7368.8	7282.4	7156.7	7125.3	7125.3
27.5°	7663.4	7596.6	7698.8	7718.4	7808.7	7836.2	7761.6	7635.9	7518.1	7451.3	7467.0
30°	8036.6	7973.7	7997.3	8138.7	8256.5	8358.6	8170.1	7985.5	7820.5	7702.7	7683.0
32.5°	8409.7	8346.9	8417.6	8555.0	8790.7	8943.9	8759.3	8437.2	8244.7	8071.9	8107.3
35°	8712.2	8759.3	8873.2	9081.4	9324.9	9572.4	9277.8	9030.3	8755.4	8562.9	8590.4
37.5°	9199.2	9344.6	9434.9	9674.5	10020.2	10275.5	9969.1	9647.0	9352.4	9101.0	9014.6
40°	9835.6	9933.7	10035.9	10318.7	10727.2	10982.5	10691.8	10271.6	9980.9	9721.6	9709.9
42.5°	10534.7	10629.0	10735.0	11080.7	11324.2	11516.7	11249.6	11025.7	10703.6	10499.4	10487.6
45°	11347.8	11281.0	11398.9	11626.7	11830.9	11956.6	11783.8	11673.8	11442.1	11253.5	11233.9
47.5°	11889.9	11830.9	12043.1	12247.3	12278.7	12141.2	12176.6	12278.7	12035.2	11724.9	11823.1
50°	12204.1	12204.1	12345.5	12534.0	12475.1	12298.4	12577.2	12585.1	12341.6	12066.6	12066.6
52.5°	11658.1	11779.9	12180.5	12797.2	12993.6	13044.7	12981.8	12714.7	12078.4	11516.7	11489.2
55°	10157.6	10130.1	10672.2	12086.3	13229.3	13834.2	13032.9	11803.4	10511.2	9878.8	9815.9
57.5°	6606.8	6638.2	7447.4	8888.9	10951.1	12078.4	10727.2	8998.9	7447.4	6575.4	6657.9
60°	2973.4	3079.5	3570.5	4646.7	6418.2	7337.4	6434.0	4882.4	3747.3	3252.3	3295.5
62.5°	1708.7	1728.3	1747.9	2074.0	2733.8	3232.7	2839.9	2191.8	1932.5	1846.1	1846.1
65°	1441.6	1429.8	1433.7	1461.2	1531.9	1634.0	1590.8	1531.9	1539.8	1531.9	1520.1
67.5°	1225.5	1241.2	1229.4	1249.1	1253.0	1268.7	1296.2	1319.8	1323.7	1331.6	1323.7
70°	1005.6	1009.5	1017.3	1033.0	1037.0	1048.8	1088.0	1107.7	1119.5	1119.5	1135.2
72.5°	769.9	765.9	773.8	789.5	809.2	813.1	848.4	875.9	891.6	872.0	875.9
75°	506.7	510.6	522.4	534.2	561.7	589.2	601.0	628.5	632.4	640.3	620.6
77.5°	302.5	310.3	322.1	345.7	369.2	392.8	420.3	439.9	447.8	439.9	416.4
80°	196.4	196.4	212.1	231.7	259.2	278.9	294.6	310.3	322.1	310.3	302.5
82.5°	121.8	121.8	141.4	165.0	184.6	196.4	220.0	239.6	251.4	243.5	231.7
85°	62.8	66.8	82.5	102.1	117.8	125.7	121.8	110.0	98.2	94.3	86.4
87.5°	19.6	19.6	23.6	23.6	19.6	19.6	23.6	19.6	23.6	23.6	23.6
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)