

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: P531942

Luminaire Tested: **GALN-SA7B-735-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531942
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-SA7B-735-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 800mA 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: 33255 lumens
Efficiency: N/A
Efficacy: 116.3 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

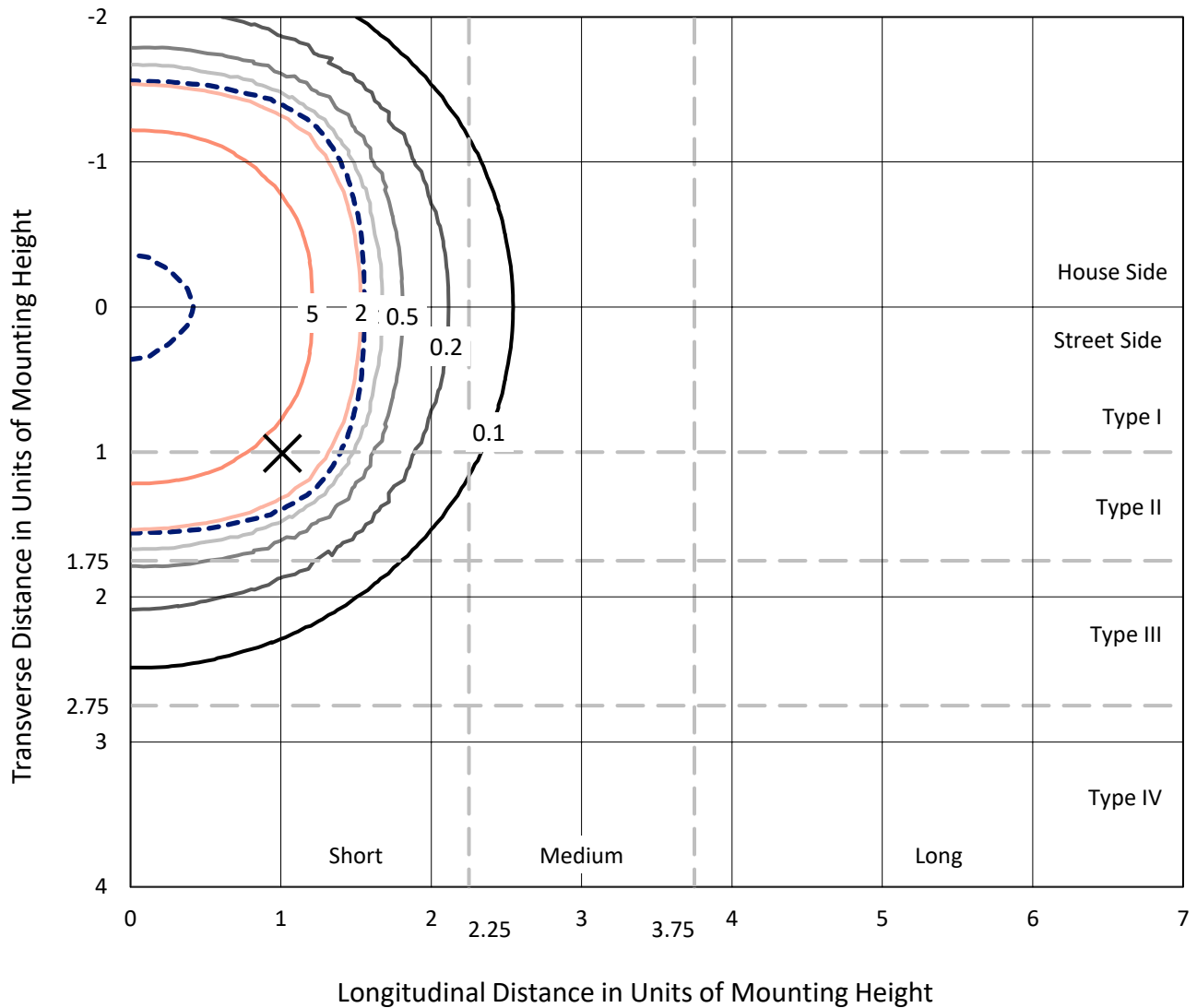
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

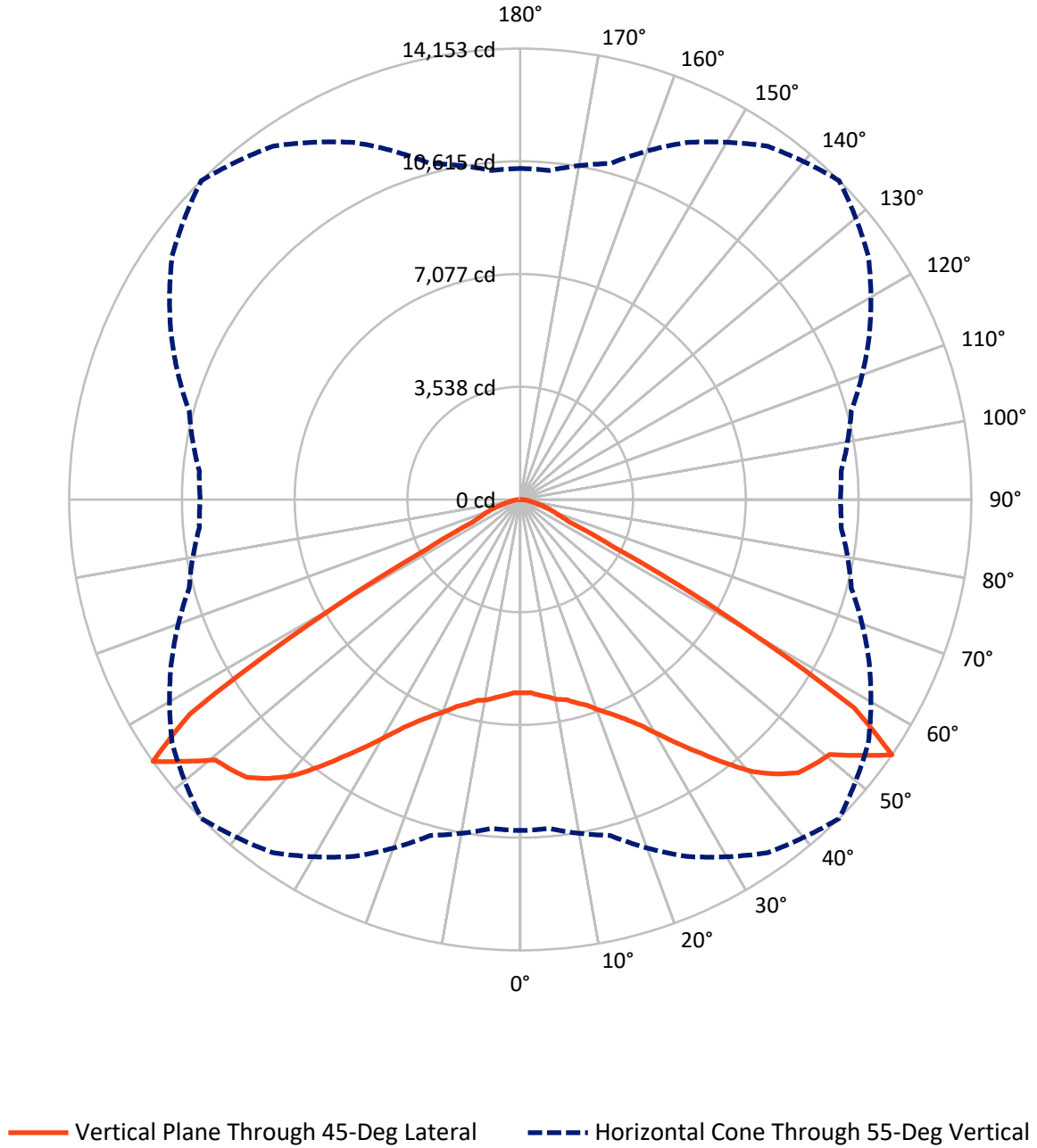
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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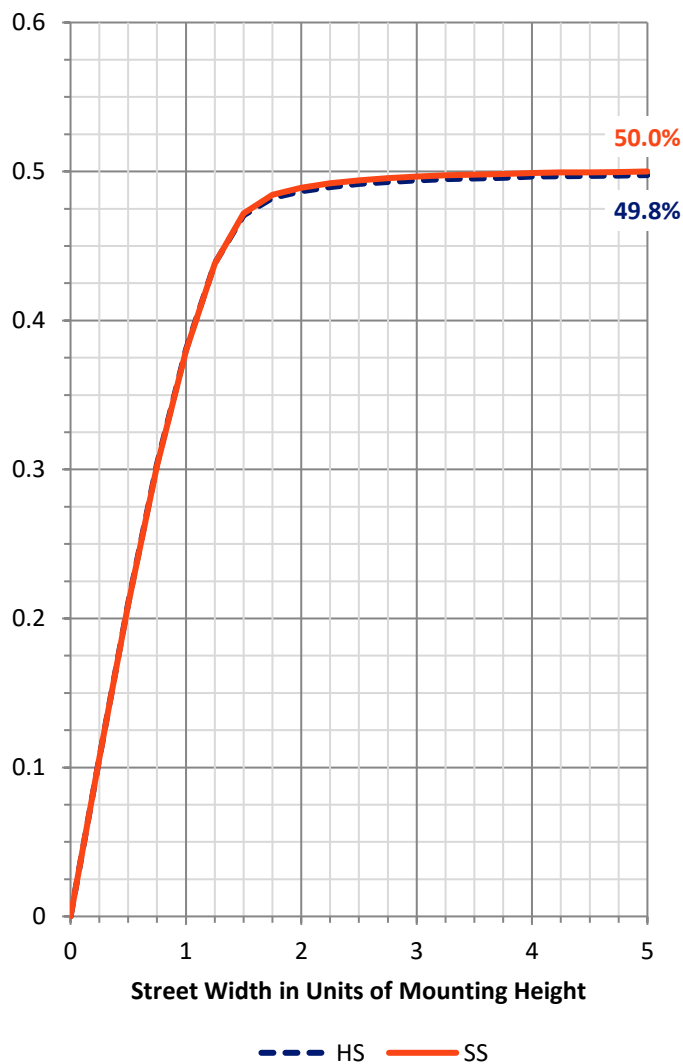
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16627.5	0.0	16627.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16627.5	0.0	16627.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	33255.0	0.0	33255.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	593.2	1.8
10°-20°	1879.4	5.7
20°-30°	3504.6	10.5
30°-40°	5867.8	17.6
40°-50°	9130.7	27.5
50°-60°	9480.6	28.5
60°-70°	2010.5	6.0
70°-80°	662.1	2.0
80°-90°	126.1	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°	33255.0	100.0
0°-180°	33255.0	100.0

Coefficient of Utilization



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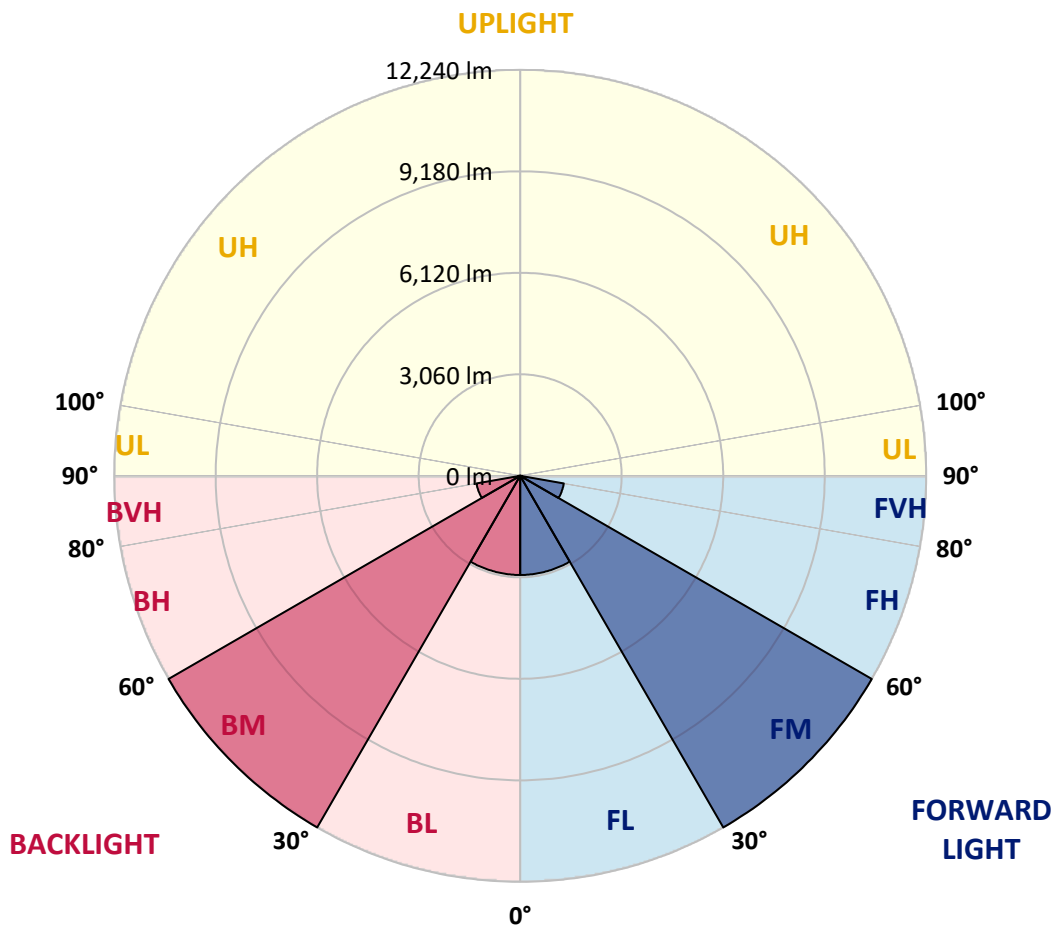
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2988.6	9.0			
FM (30°-60°)	12239.5	36.8			
FH (60°-80°)	1336.3	4.0			G1/1800
FVH (80°-90°)	63.1	0.2			G1/100
BL (0°-30°)	2988.6	9.0	B4/5000		
BM (30°-60°)	12239.5	36.8	B5		
BH (60°-80°)	1336.3	4.0	B3/2500		G1/1800
BVH (80°-90°)	63.1	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°	6071.9	6071.9	6071.9	6071.9	6071.9	6071.9	6071.9	6071.9	6071.9	6071.9	6071.9
2.5°	6144.2	6116.1	6067.8	6104.0	6132.1	6071.9	6096.0	6108.0	6100.0	6067.8	6079.9
5°	6232.6	6216.5	6176.3	6204.5	6168.3	6168.3	6144.2	6112.1	6160.3	6152.2	6172.3
7.5°	6232.6	6212.5	6292.9	6240.6	6256.7	6256.7	6216.5	6184.4	6208.5	6172.3	6152.2
10°	6357.2	6385.3	6349.1	6361.2	6353.2	6381.3	6321.0	6300.9	6280.8	6268.8	6244.7
12.5°	6505.9	6485.8	6497.8	6489.8	6517.9	6445.6	6409.4	6365.2	6401.4	6349.1	6385.3
15°	6626.4	6614.4	6626.4	6658.6	6630.4	6626.4	6562.1	6517.9	6461.7	6473.7	6417.5
17.5°	6791.2	6779.1	6783.1	6811.3	6807.2	6787.1	6738.9	6654.5	6634.4	6602.3	6566.1
20°	7036.3	7016.2	7008.2	7020.2	7040.3	7056.4	6959.9	6927.8	6859.5	6807.2	6747.0
22.5°	7245.3	7237.2	7269.4	7217.1	7261.3	7309.5	7217.1	7201.0	7032.3	7004.1	6939.9
25°	7534.6	7522.5	7502.4	7578.8	7631.0	7627.0	7538.6	7450.2	7321.6	7289.5	7289.5
27.5°	7840.0	7771.7	7876.1	7896.2	7988.7	8016.8	7940.4	7811.9	7691.3	7623.0	7639.1
30°	8221.7	8157.4	8181.5	8326.2	8446.8	8551.2	8358.4	8169.5	8000.7	7880.2	7860.1
32.5°	8603.5	8539.2	8611.5	8752.2	8993.3	9150.0	8961.1	8631.6	8434.7	8257.9	8294.1
35°	8912.9	8961.1	9077.7	9290.6	9539.8	9792.9	9491.6	9238.4	8957.1	8760.2	8788.3
37.5°	9411.2	9559.9	9652.3	9897.4	10251.0	10512.2	10198.8	9869.3	9567.9	9310.7	9222.3
40°	10062.2	10162.6	10267.1	10556.4	10974.4	11235.6	10938.2	10508.2	10210.9	9945.6	9933.6
42.5°	10777.5	10873.9	10982.4	11336.0	11585.2	11782.1	11508.8	11279.8	10950.3	10741.3	10729.2
45°	11609.3	11541.0	11661.5	11894.6	12103.5	12232.1	12055.3	11942.8	11705.7	11512.8	11492.7
47.5°	12163.8	12103.5	12320.5	12529.5	12561.7	12421.0	12457.2	12561.7	12312.5	11995.1	12095.5
50°	12485.3	12485.3	12630.0	12822.9	12762.6	12581.7	12867.1	12875.1	12625.9	12344.7	12344.7
52.5°	11926.7	12051.3	12461.2	13092.1	13293.0	13345.2	13281.0	13007.7	12356.7	11782.1	11753.9
55°	10391.7	10363.6	10918.1	12364.7	13534.1	14153.0	13333.2	12075.4	10753.4	10106.4	10042.1
57.5°	6759.0	6791.2	7619.0	9093.7	11203.4	12356.7	10974.4	9206.3	7619.0	6726.9	6811.3
60°	3042.0	3150.5	3652.8	4753.8	6566.1	7506.5	6582.2	4994.9	3833.6	3327.3	3371.5
62.5°	1748.0	1768.1	1788.2	2121.7	2796.8	3307.2	2905.3	2242.3	1977.1	1888.7	1888.7
65°	1474.8	1462.7	1466.7	1494.9	1567.2	1671.7	1627.5	1567.2	1575.2	1567.2	1555.1
67.5°	1253.8	1269.8	1257.8	1277.9	1281.9	1298.0	1326.1	1350.2	1354.2	1362.3	1354.2
70°	1028.7	1032.7	1040.8	1056.9	1060.9	1072.9	1113.1	1133.2	1145.3	1145.3	1161.3
72.5°	787.6	783.6	791.6	807.7	827.8	831.8	868.0	896.1	912.2	892.1	896.1
75°	518.4	522.4	534.5	546.5	574.6	602.8	614.8	643.0	647.0	655.0	634.9
77.5°	309.4	317.5	329.5	353.6	377.7	401.8	430.0	450.1	458.1	450.1	426.0
80°	200.9	200.9	217.0	237.1	265.2	285.3	301.4	317.5	329.5	317.5	309.4
82.5°	124.6	124.6	144.7	168.8	188.9	200.9	225.0	245.1	257.2	249.1	237.1
85°	64.3	68.3	84.4	104.5	120.6	128.6	124.6	112.5	100.5	96.4	88.4
87.5°	20.1	20.1	24.1	24.1	20.1	20.1	24.1	20.1	24.1	24.1	24.1
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)