

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: P647638

Luminaire Tested: **GALN-SA9D-835-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647638
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-SA9D-835-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 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: 32955.7 lumens
Efficiency: N/A
Efficacy: 59.7 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

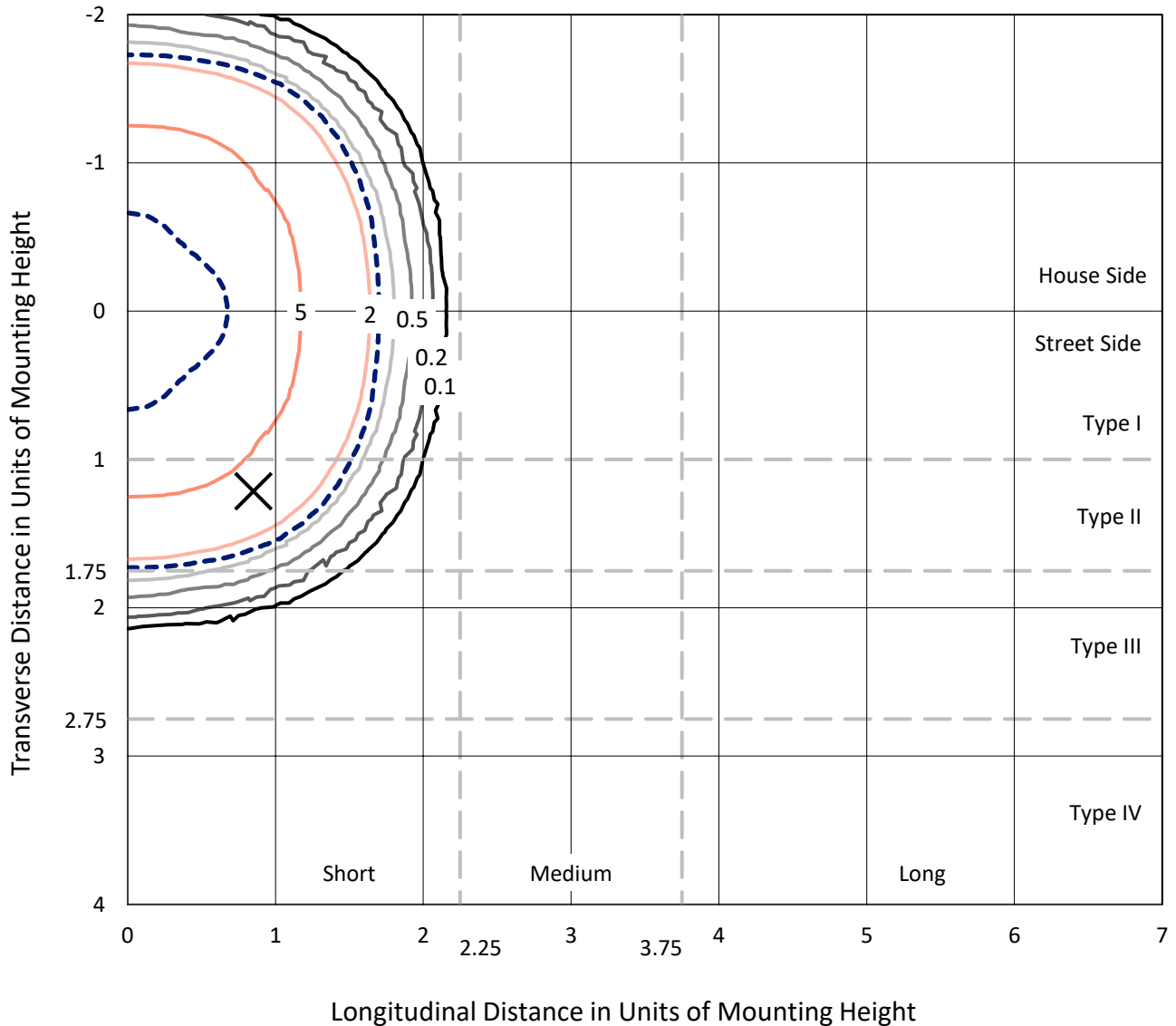
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

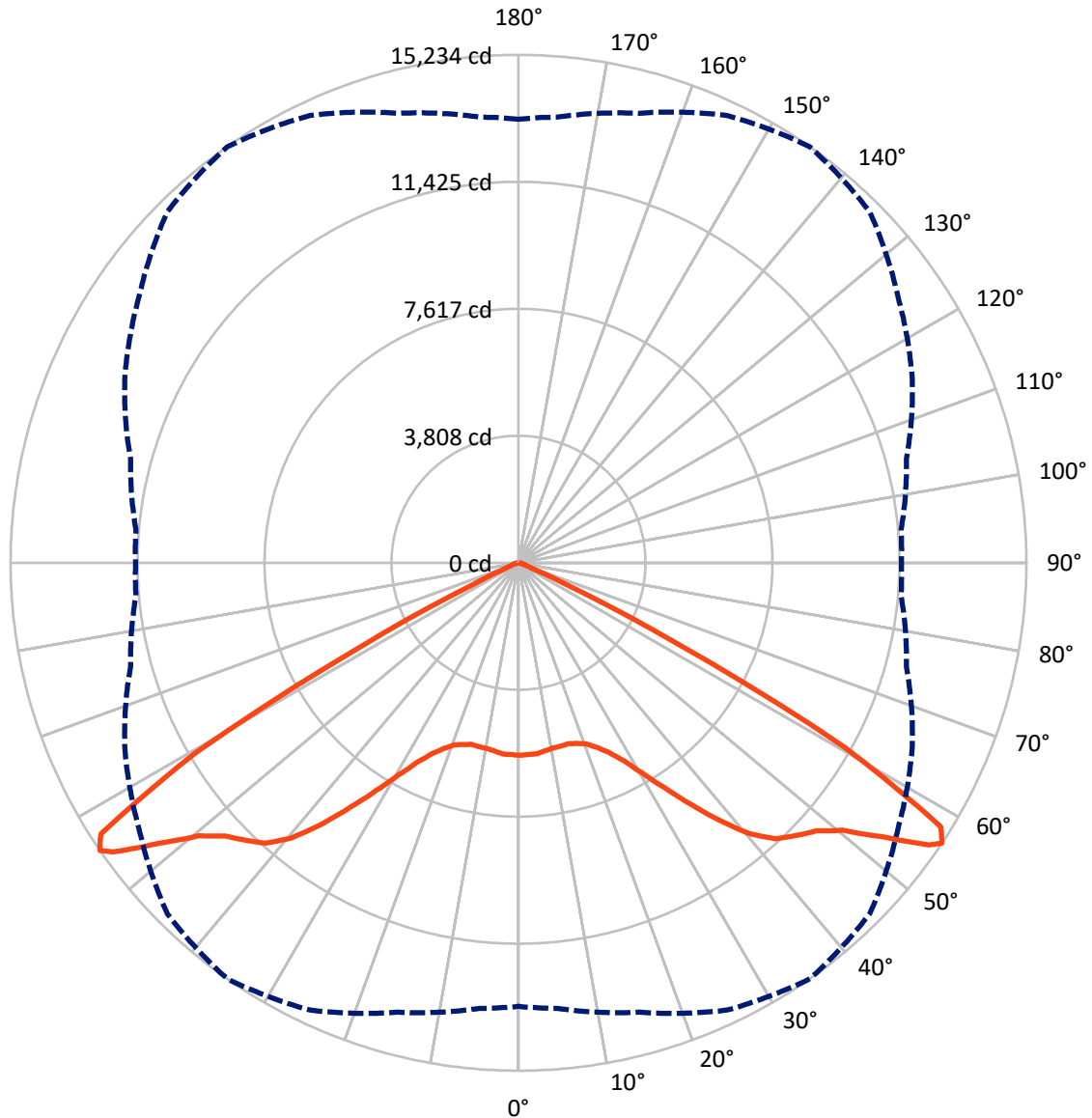
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 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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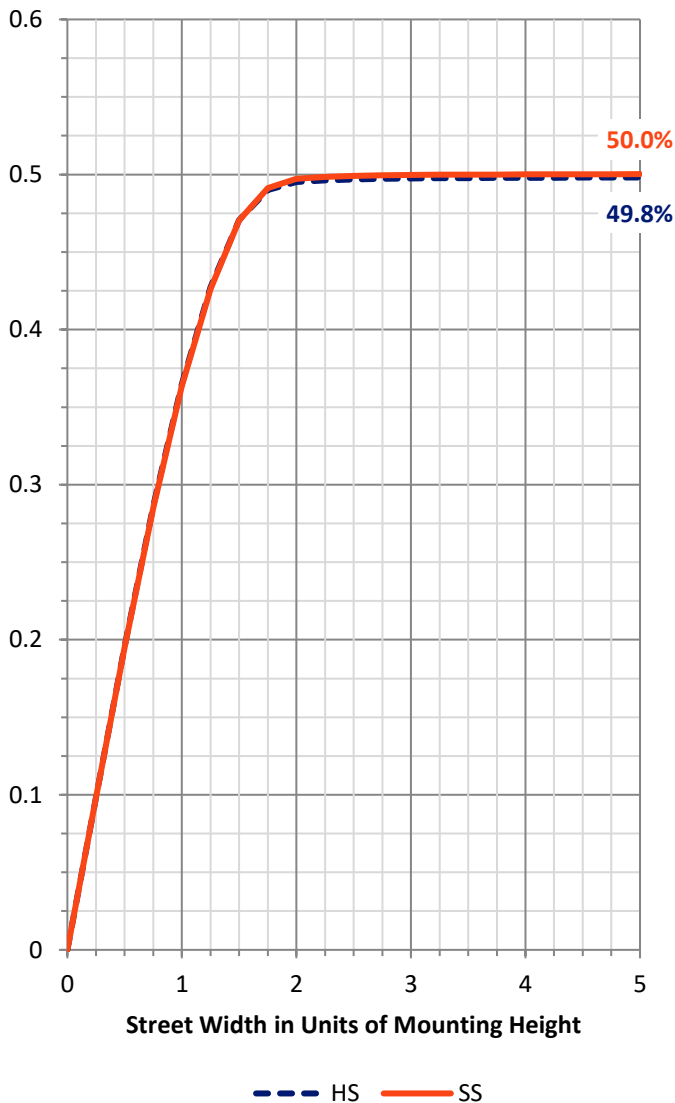
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16477.9	0.0	16477.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16477.9	0.0	16477.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	32955.7	0.0	32955.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	542.7	1.6
10°-20°	1584.5	4.8
20°-30°	2869.3	8.7
30°-40°	5320.6	16.1
40°-50°	8733.5	26.5
50°-60°	11251.3	34.1
60°-70°	2479.7	7.5
70°-80°	143.9	0.4
80°-90°	30.3	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°	32955.7	100.0
0°-180°	32955.7	100.0

Coefficient of Utilization



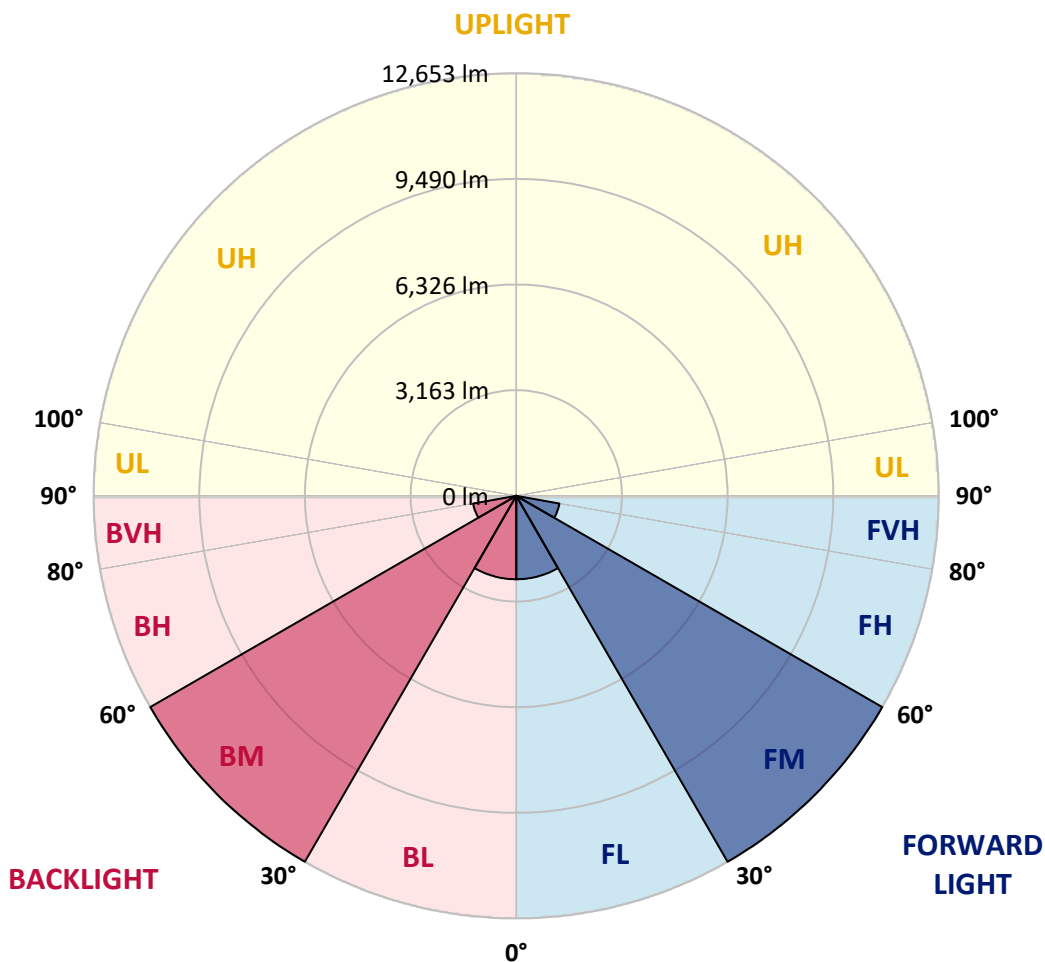
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2498.2	7.6			
FM	(30°-60°)	12652.7	38.4			
FH	(60°-80°)	1311.8	4.0			G1/1800
FVH	(80°-90°)	15.1	0.0			G1/100
BL	(0°-30°)	2498.2	7.6	B3/2500		
BM	(30°-60°)	12652.7	38.4	B5		
BH	(60°-80°)	1311.8	4.0	B3/2500		G1/1800
BVH	(80°-90°)	15.1	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°	5774.5	5774.5	5774.5	5774.5	5774.5	5774.5	5774.5	5774.5	5774.5	5774.5	5774.5
2.5°	5786.5	5786.5	5792.5	5798.4	5756.6	5738.7	5744.7	5732.7	5726.8	5744.7	5744.7
5°	5768.6	5768.6	5750.7	5756.6	5756.6	5702.9	5702.9	5714.8	5714.8	5679.0	5667.0
7.5°	5720.8	5708.9	5685.0	5714.8	5697.0	5697.0	5655.1	5625.2	5613.3	5637.2	5613.3
10°	5619.3	5625.2	5649.1	5661.1	5649.1	5685.0	5613.3	5571.5	5529.7	5511.8	5511.8
12.5°	5571.5	5607.4	5571.5	5601.3	5643.2	5613.3	5571.5	5541.7	5481.9	5458.1	5458.1
15°	5565.6	5589.4	5601.3	5643.2	5625.2	5637.2	5553.6	5517.8	5428.2	5386.4	5368.5
17.5°	5559.5	5589.4	5607.4	5685.0	5697.0	5702.9	5637.2	5529.7	5452.1	5410.3	5368.5
20°	5625.2	5637.2	5673.0	5750.7	5798.4	5882.1	5762.6	5649.1	5481.9	5434.2	5416.2
22.5°	5708.9	5768.6	5804.4	5888.0	6013.4	6085.1	5929.8	5786.5	5613.3	5553.6	5481.9
25°	5977.6	5965.6	6025.3	6198.5	6300.0	6353.8	6228.4	6019.4	5792.5	5720.8	5732.7
27.5°	6312.0	6323.9	6377.7	6568.7	6718.1	6801.7	6652.4	6377.7	6156.7	6037.3	6025.3
30°	6747.9	6736.0	6795.7	7052.5	7321.2	7446.6	7183.9	6861.4	6646.4	6491.1	6526.9
32.5°	7207.7	7213.7	7380.9	7613.8	8049.7	8294.6	7870.6	7476.5	7154.0	7046.5	6992.7
35°	7888.5	7918.3	8049.7	8408.0	8891.7	9208.2	8742.4	8270.7	7900.5	7703.4	7727.3
37.5°	8730.5	8700.6	8921.6	9309.7	9817.3	10050.2	9656.1	9118.7	8742.4	8611.0	8694.7
40°	9626.2	9656.1	9769.6	10121.8	10689.2	10844.5	10259.3	9966.7	9638.2	9572.5	9674.0
42.5°	10522.0	10504.0	10587.6	10904.1	11316.2	11208.7	10862.3	10689.2	10456.3	10324.9	10462.3
45°	11178.8	11149.0	11304.2	11519.3	11668.5	11465.5	11310.2	11250.5	11131.0	10987.8	11113.2
47.5°	11817.8	11793.9	11943.2	12002.9	12014.9	11746.2	11776.0	11883.5	11585.0	11286.3	11429.7
50°	12361.2	12319.4	12504.5	12635.9	12606.1	12176.1	12283.6	12176.1	11710.3	11358.0	11304.2
52.5°	13268.9	13286.8	13483.9	13722.8	13651.1	13292.8	13137.6	12647.9	12050.7	11734.2	11549.1
55°	13842.2	13752.6	14093.0	14851.4	14935.0	14564.7	13878.0	13155.4	12259.7	11871.5	11823.8
56°	13304.7	13418.2	13955.6	14803.6	15233.6	14893.2	13895.9	13030.1	12044.7	11519.3	11483.4
57.5°	11937.2	11877.6	12606.1	13764.6	14935.0	14791.7	13406.3	12134.3	10987.8	10396.6	10324.9
60°	7428.7	7601.8	8240.8	9674.0	11238.6	11310.2	9936.7	8844.0	7506.3	6980.8	7106.2
62.5°	2908.1	2758.9	3159.0	4227.9	5302.8	5541.7	5022.1	4174.2	3427.7	2908.1	2872.4
65°	674.8	656.9	740.5	1021.1	1427.3	1654.2	1570.5	1128.6	830.1	788.2	728.5
67.5°	382.2	382.2	364.3	364.3	400.1	424.0	406.1	400.1	418.0	435.9	429.9
70°	268.7	262.8	250.8	256.7	244.8	244.8	262.8	292.6	316.5	316.5	322.4
72.5°	161.2	161.2	161.2	179.2	179.2	179.2	197.1	221.0	226.9	221.0	215.0
75°	71.6	71.6	83.6	101.6	113.5	119.4	137.3	149.3	161.2	149.3	137.3
77.5°	17.9	17.9	29.8	41.8	53.7	65.7	89.6	107.5	113.5	107.5	89.6
80°	6.0	6.0	12.0	29.8	53.7	65.7	89.6	95.5	101.6	89.6	71.6
82.5°	6.0	6.0	12.0	29.8	41.8	53.7	71.6	83.6	89.6	77.6	71.6
85°	0.0	6.0	12.0	23.9	35.9	47.8	47.8	35.9	29.8	17.9	23.9
87.5°	0.0	0.0	6.0	6.0	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)