

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: P534236

Luminaire Tested: **GALN-SA9D-727-U-RW-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534236
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-8)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-727-U-RW-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51392 lumens
Efficiency: N/A
Efficacy: 93.1 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

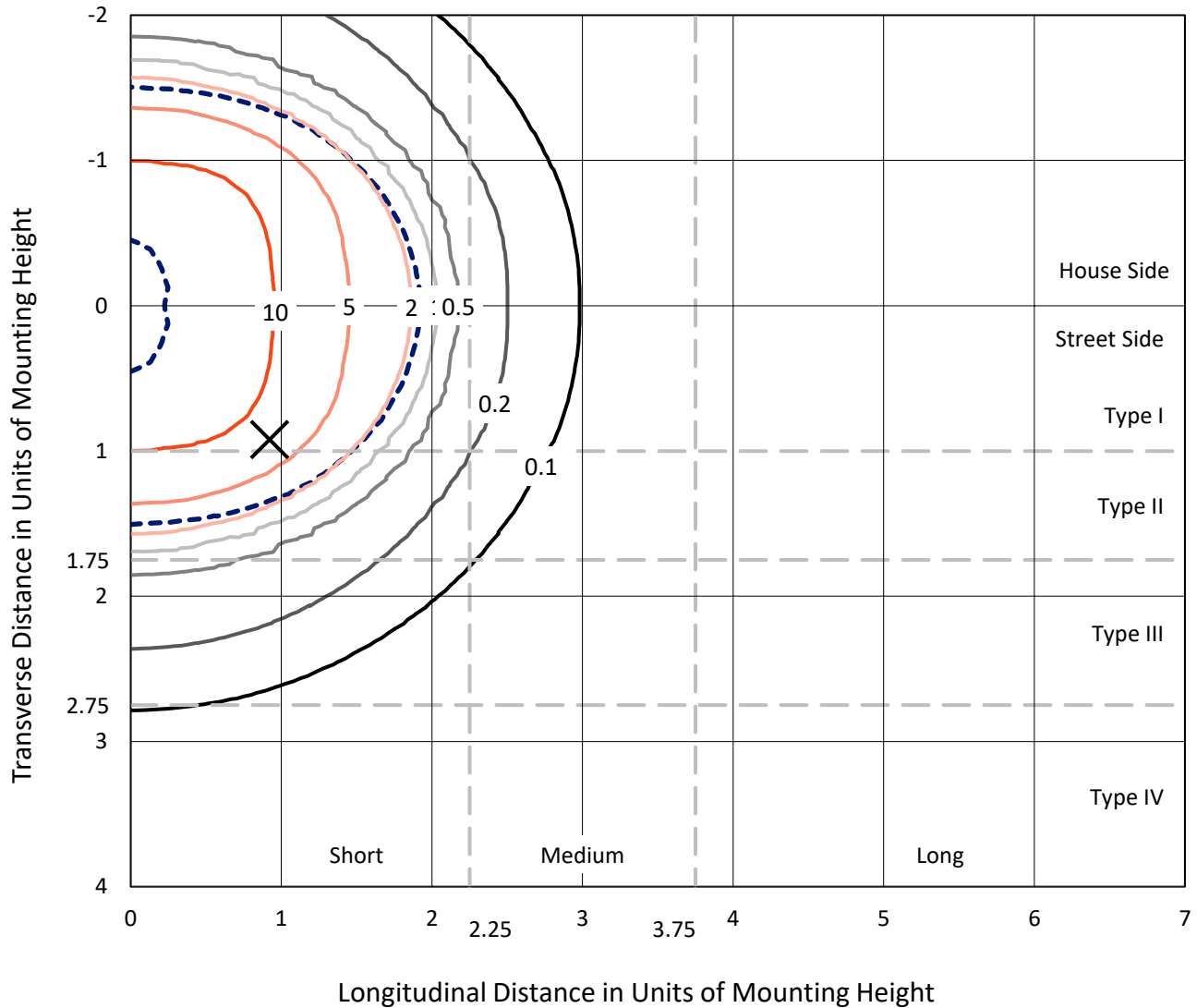
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

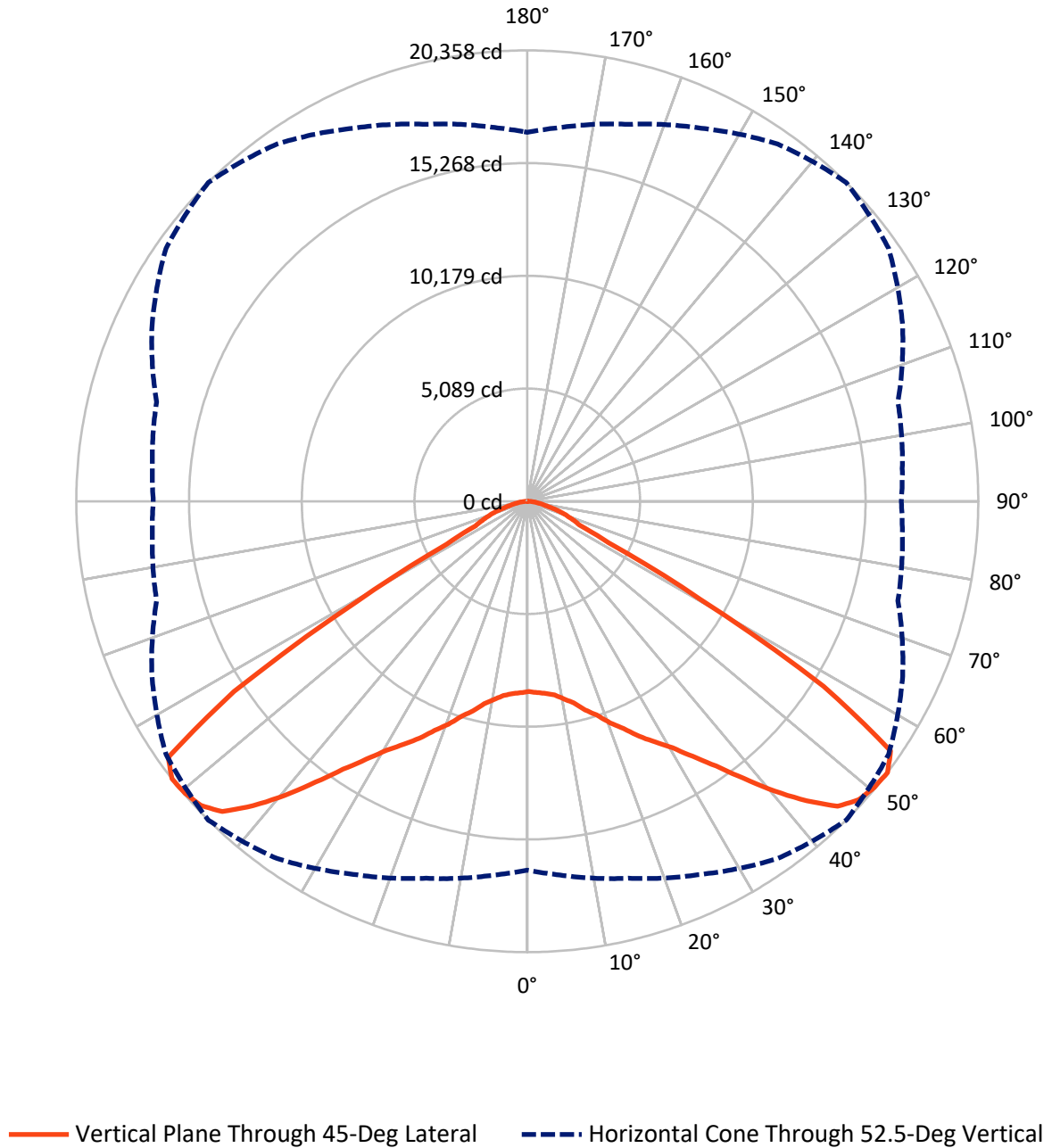
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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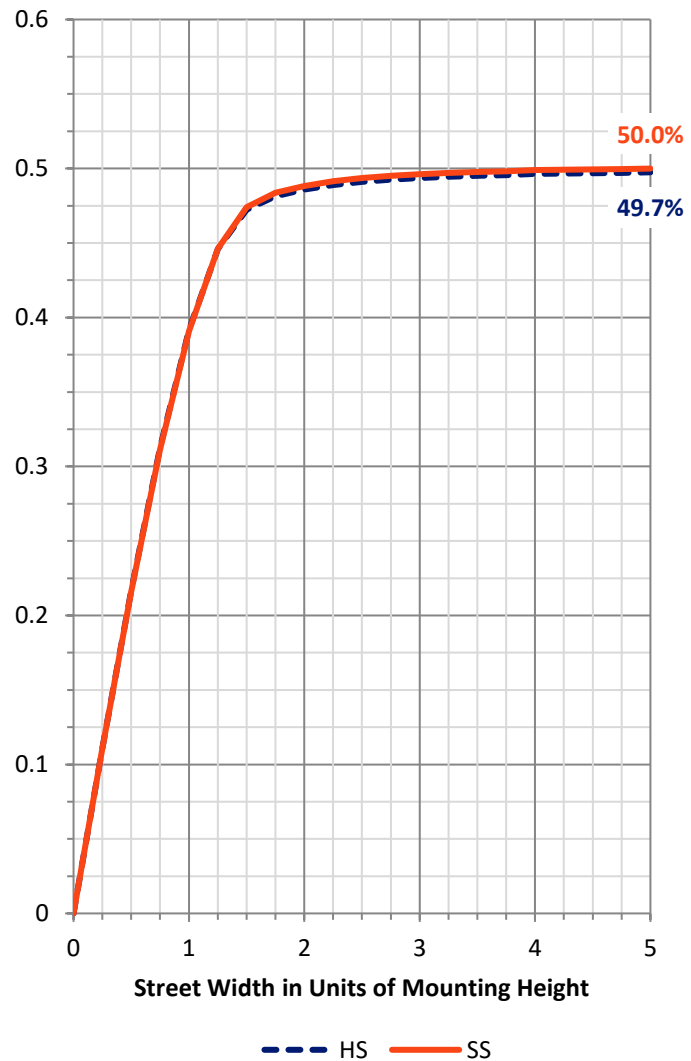
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	25696.0	0.0	25696.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	25696.0	0.0	25696.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	51392.0	0.0	51392.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	844.0	1.6
10°-20°	2773.4	5.4
20°-30°	5280.2	10.3
30°-40°	9066.5	17.6
40°-50°	13935.4	27.1
50°-60°	14151.1	27.5
60°-70°	3943.7	7.7
70°-80°	1163.4	2.3
80°-90°	234.3	0.5
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°	51392.0	100.0
0°-180°	51392.0	100.0



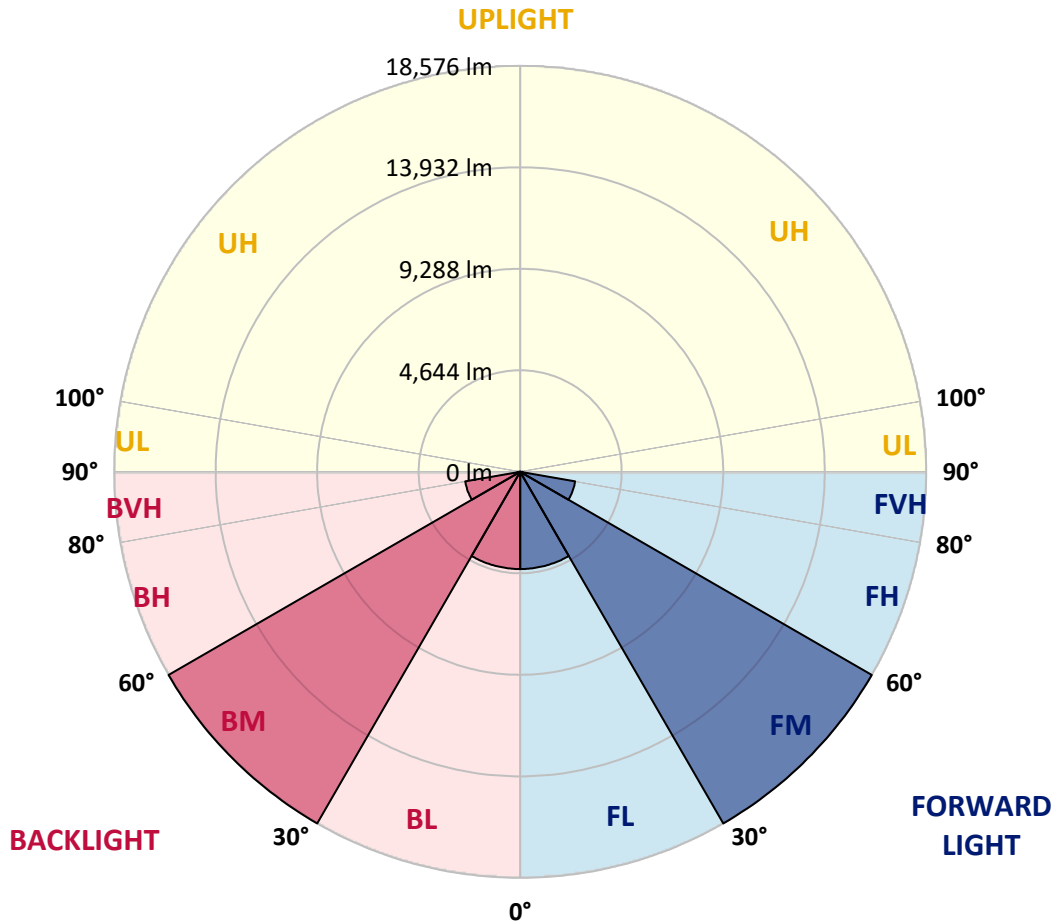
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4448.8	8.7			
FM (30°-60°)	18576.5	36.1			
FH (60°-80°)	2553.5	5.0			G2/5000
FVH (80°-90°)	117.2	0.2			G2/225
BL (0°-30°)	4448.8	8.7	B4/5000		
BM (30°-60°)	18576.5	36.1	B5		
BH (60°-80°)	2553.5	5.0	B4/5000		G2/5000
BVH (80°-90°)	117.2	0.2			G2/225
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°	8590.9	8590.9	8590.9	8590.9	8590.9	8590.9	8590.9	8590.9	8590.9	8590.9	8590.9
2.5°	8610.0	8520.7	8552.6	8571.7	8654.6	8648.2	8629.1	8654.6	8680.1	8686.5	8673.8
5°	8603.6	8539.8	8565.3	8584.5	8667.4	8712.0	8699.3	8807.7	8884.2	8865.1	8960.8
7.5°	8552.6	8590.9	8559.0	8654.6	8724.8	8833.2	8948.0	9050.0	9145.7	9254.1	9273.3
10°	8667.4	8667.4	8724.8	8801.3	8986.3	9069.2	9235.0	9381.7	9566.6	9694.2	9643.2
12.5°	8788.6	8807.7	8807.7	9005.4	9158.5	9343.4	9496.5	9694.2	9955.7	10108.8	10185.3
15°	8909.7	8922.5	8986.3	9254.1	9483.7	9777.1	9917.4	10096.0	10242.7	10529.7	10536.1
17.5°	9018.2	9088.3	9279.6	9579.4	9866.4	10147.0	10370.2	10555.2	10682.8	10797.6	10772.0
20°	9426.3	9477.4	9675.1	9974.8	10402.1	10676.4	10752.9	10784.8	10867.7	11097.3	11027.2
22.5°	9821.8	9840.9	10025.8	10485.0	10784.8	11148.3	11231.2	11212.1	11244.0	11301.4	11403.4
25°	10229.9	10261.8	10516.9	10906.0	11326.9	11760.6	11830.8	11684.1	11639.4	11703.2	11709.6
27.5°	10752.9	10759.3	11084.6	11422.6	11900.9	12309.1	12417.5	12302.7	12092.2	12143.3	12226.2
30°	11416.2	11371.6	11696.8	12181.5	12685.4	12915.0	13099.9	13042.5	12812.9	12768.3	12698.1
32.5°	12181.5	12194.3	12487.7	13017.0	13348.7	13731.3	13929.0	13833.4	13686.7	13610.2	13654.8
35°	13259.4	13316.8	13514.5	13954.6	14490.3	14681.6	14994.1	14790.0	14407.4	14503.0	14585.9
37.5°	14145.9	14311.7	14681.6	15204.6	15523.5	15874.3	15989.1	15714.8	15434.2	15319.4	15593.6
40°	15504.3	15453.3	15861.5	16384.5	16856.4	17207.2	17060.5	16786.3	16091.1	16097.5	16174.0
42.5°	16671.5	16697.0	17009.5	17634.5	18278.7	18495.5	18029.9	17360.3	16588.6	16505.7	16671.5
45°	17653.7	17755.7	17934.3	18769.8	19401.2	19637.1	18776.1	17985.3	16952.1	16607.7	16881.9
47.5°	18004.4	18170.3	18559.3	19324.6	19949.7	20141.0	19452.2	18316.9	17290.1	16728.9	16875.6
50°	18055.5	17998.1	18635.8	19337.4	19885.9	20300.4	19694.5	18559.3	17207.2	16913.8	16869.2
52.5°	16658.7	16939.3	17621.8	18584.8	19694.5	20357.8	19911.4	18693.2	17322.0	16990.4	16881.9
55°	13482.6	13151.0	14394.6	16014.6	18055.5	19898.6	19834.9	18763.4	17392.2	17117.9	16971.2
57.5°	7525.8	7621.4	8323.0	10083.2	12717.3	15778.6	17634.5	18023.6	17360.3	17200.8	17277.4
60°	3482.3	3514.1	3813.9	4636.6	6269.3	8948.0	11390.7	13871.6	15013.3	15242.9	15242.9
62.5°	2595.8	2583.0	2659.5	2806.2	3150.6	4113.7	5491.3	7462.0	9030.9	10127.9	10414.9
65°	2347.0	2340.6	2378.9	2429.9	2455.4	2589.4	2895.5	3501.4	4011.6	4305.0	4254.0
67.5°	2053.6	2047.3	2060.0	2091.9	2136.6	2206.7	2283.2	2410.8	2589.4	2576.6	2544.7
70°	1658.2	1658.2	1677.4	1702.9	1753.9	1836.8	1926.1	2015.4	2168.4	2200.3	2194.0
72.5°	1224.5	1205.4	1243.7	1294.7	1345.7	1447.8	1543.4	1626.3	1734.8	1766.6	1753.9
75°	778.1	790.8	816.4	873.8	963.0	1033.2	1135.2	1205.4	1275.6	1301.1	1307.4
77.5°	433.7	446.4	491.1	561.2	650.5	727.1	816.4	873.8	918.4	924.8	931.2
80°	261.5	267.9	312.5	376.3	452.8	535.7	605.9	663.3	701.6	682.4	676.0
82.5°	159.4	165.8	204.1	261.5	325.3	389.0	465.6	516.6	554.9	529.4	503.8
85°	82.9	89.3	121.2	159.4	210.5	242.4	242.4	216.8	210.5	197.7	191.3
87.5°	25.5	25.5	31.9	38.3	31.9	38.3	44.6	51.0	51.0	57.4	51.0
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)