

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: P532538

Luminaire Tested: **GALN-SA7D-830-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532538
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7D-830-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37793 lumens
Efficiency: N/A
Efficacy: 87.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

Input Watts (W): 433
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

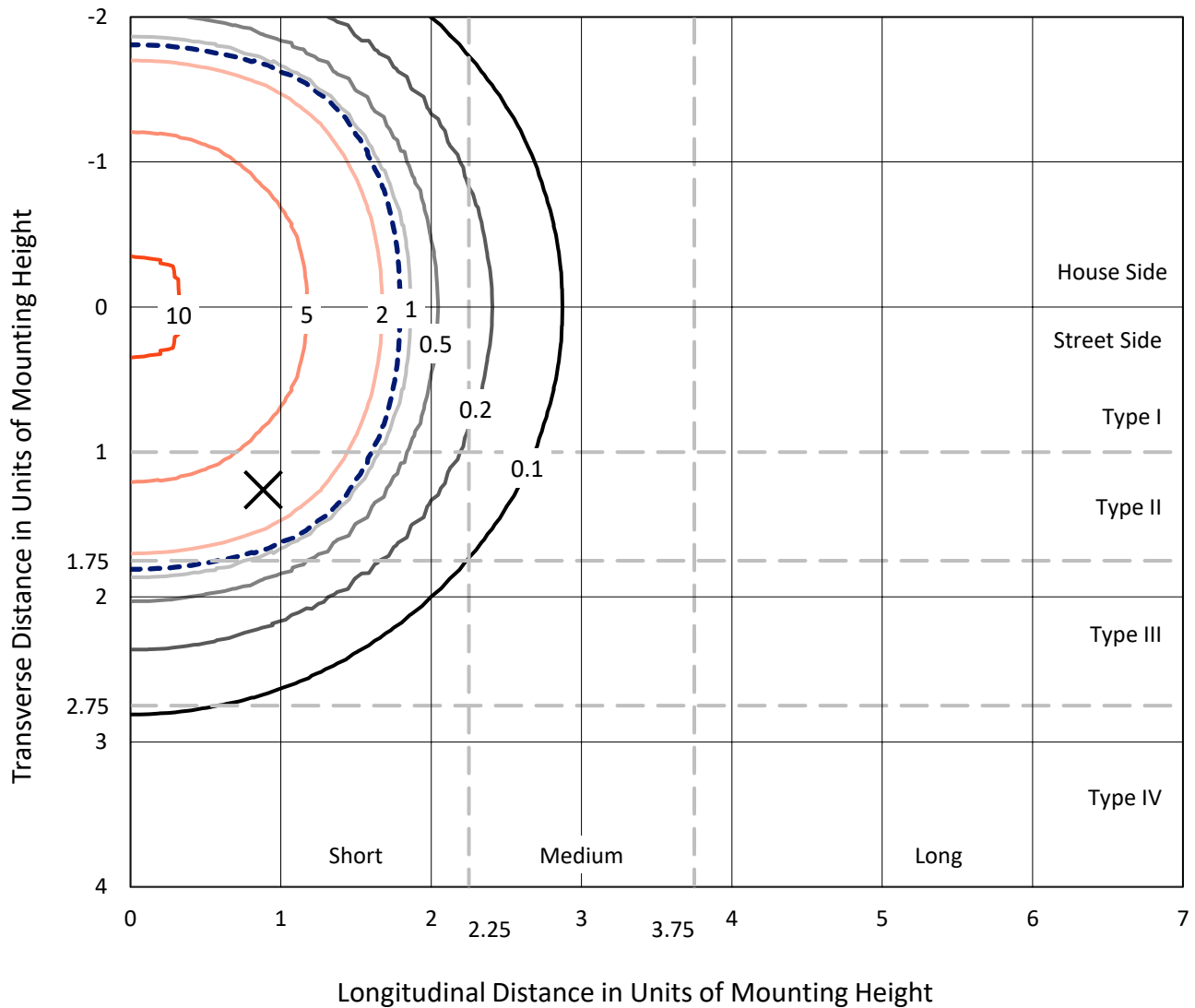


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

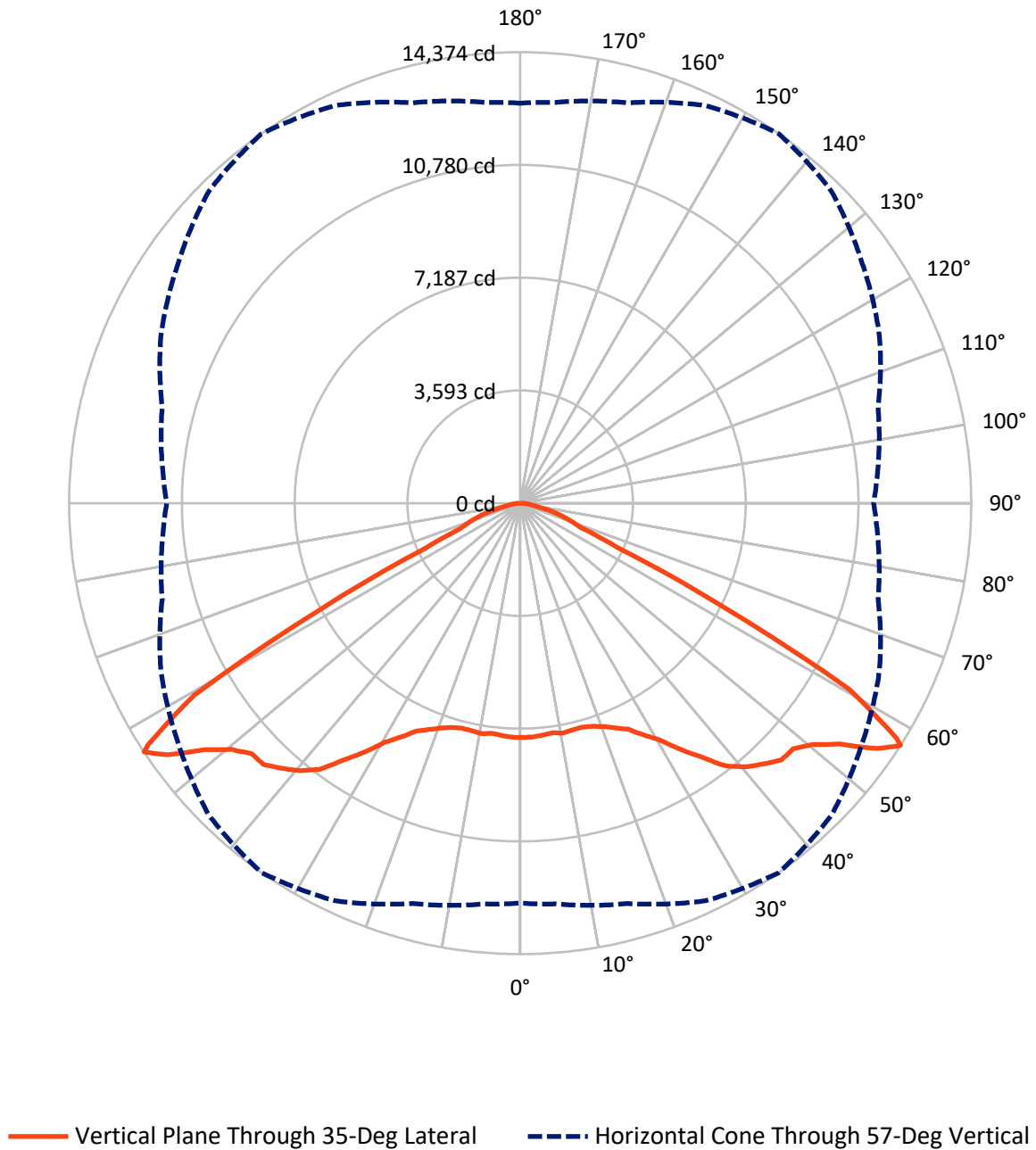


Based on 25 foot mounting height. Maximum calculated value = 11.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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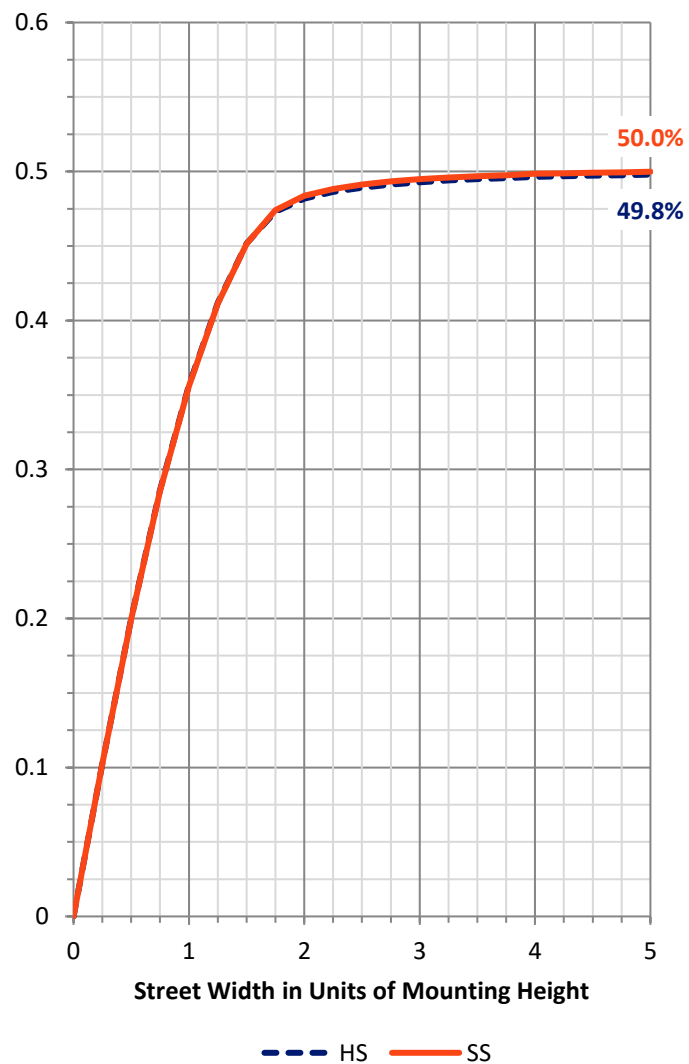
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18896.5	0.0	18896.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18896.5	0.0	18896.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	37793.0	0.0	37793.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	707.6	1.9
10°-20°	2095.7	5.5
20°-30°	3660.1	9.7
30°-40°	5997.2	15.9
40°-50°	8793.4	23.3
50°-60°	11075.9	29.3
60°-70°	4165.6	11.0
70°-80°	1107.6	2.9
80°-90°	189.9	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°	37793.0	100.0
0°-180°	37793.0	100.0

Coefficient of Utilization



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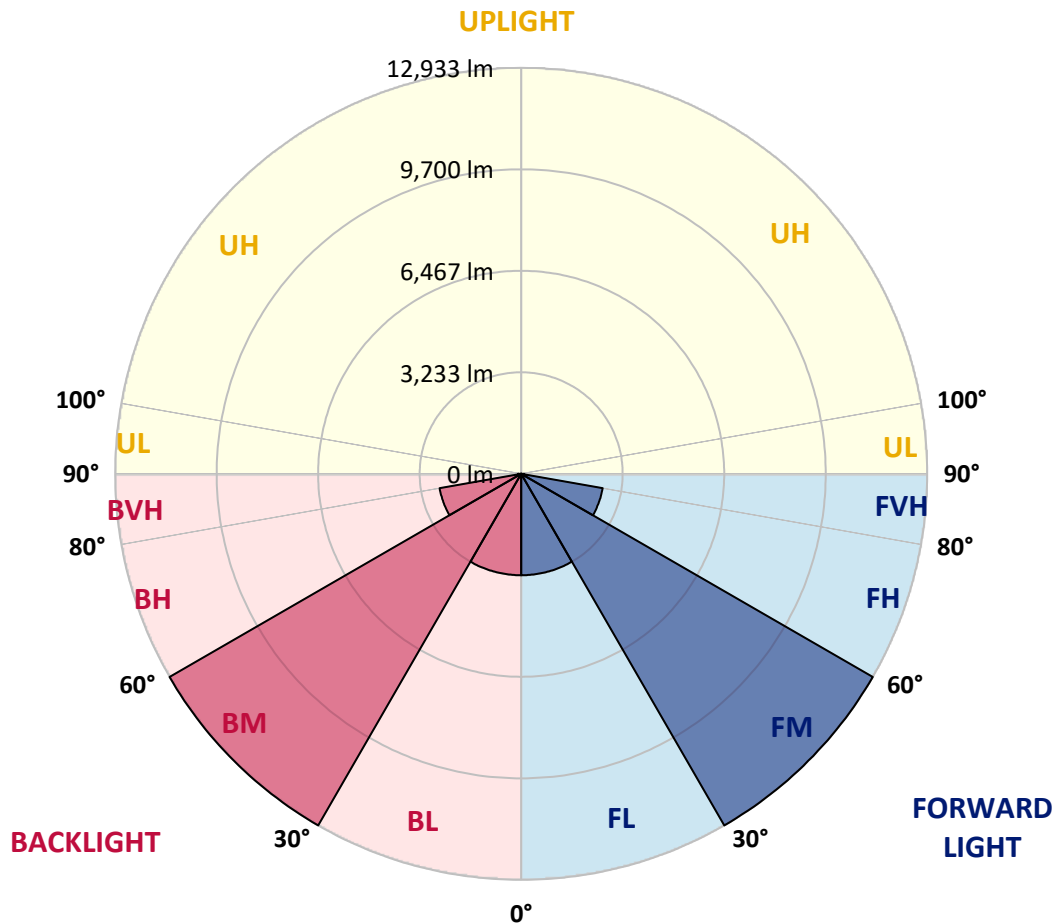
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3231.7	8.6			
FM	(30°-60°)	12933.3	34.2			
FH	(60°-80°)	2636.6	7.0			G2/5000
FVH	(80°-90°)	94.9	0.3			G1/100
BL	(0°-30°)	3231.7	8.6	B4/5000		
BM	(30°-60°)	12933.3	34.2	B5		
BH	(60°-80°)	2636.6	7.0	B4/5000		G2/5000
BVH	(80°-90°)	94.9	0.3			G1/100
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°	7463.8	7463.8	7463.8	7463.8	7463.8	7463.8	7463.8	7463.8	7463.8	7463.8	7463.8
2.5°	7426.6	7501.1	7468.5	7449.9	7463.8	7440.6	7403.3	7445.2	7435.9	7398.7	7384.7
5°	7408.0	7463.8	7426.6	7463.8	7426.6	7491.8	7473.2	7403.3	7487.1	7408.0	7435.9
7.5°	7394.0	7412.6	7421.9	7403.3	7389.3	7468.5	7426.6	7394.0	7347.4	7333.5	7356.7
10°	7361.4	7408.0	7338.1	7431.2	7449.9	7394.0	7394.0	7333.5	7296.2	7272.9	7352.1
12.5°	7445.2	7366.1	7356.7	7403.3	7417.3	7440.6	7375.4	7342.8	7272.9	7282.2	7268.3
15°	7347.4	7380.0	7384.7	7394.0	7408.0	7463.8	7403.3	7333.5	7305.5	7207.7	7217.1
17.5°	7384.7	7352.1	7384.7	7491.8	7473.2	7515.1	7449.9	7342.8	7277.6	7221.7	7296.2
20°	7449.9	7435.9	7449.9	7580.2	7603.5	7640.8	7584.9	7487.1	7361.4	7296.2	7333.5
22.5°	7519.7	7510.4	7519.7	7645.4	7780.5	7827.0	7771.1	7543.0	7477.8	7356.7	7314.8
25°	7645.4	7654.7	7752.5	7892.2	7980.7	8069.1	7966.7	7803.7	7594.2	7519.7	7431.2
27.5°	7924.8	7948.1	8004.0	8208.8	8362.5	8441.6	8297.3	8073.8	7943.4	7789.8	7766.5
30°	8269.4	8269.4	8367.1	8544.1	8753.6	8874.7	8697.7	8432.3	8274.0	8190.2	8139.0
32.5°	8725.7	8674.4	8711.7	9023.7	9349.6	9452.0	9214.6	8888.6	8637.2	8525.4	8488.2
35°	9116.8	9149.4	9233.2	9568.4	9931.6	10169.1	9796.6	9372.9	9116.8	9014.3	8995.7
37.5°	9624.3	9680.2	9722.1	10183.0	10620.7	10709.2	10350.7	10010.8	9698.8	9615.0	9568.4
40°	10341.4	10304.1	10318.1	10658.0	11053.7	11109.6	10755.8	10513.6	10257.5	10206.3	10206.3
42.5°	10932.7	10890.8	10937.3	11063.1	11365.7	11323.8	11128.2	10951.3	10844.2	10788.3	10844.2
45°	11291.2	11281.9	11365.7	11458.8	11673.0	11533.3	11379.7	11407.6	11305.2	11212.1	11207.4
47.5°	11682.3	11621.8	11724.2	11863.9	11701.0	11635.8	11626.5	11687.0	11654.4	11491.4	11440.2
50°	11873.2	11850.0	12012.9	12175.9	12087.4	11938.4	11971.0	12068.8	11649.7	11430.9	11305.2
52.5°	12385.4	12390.1	12702.0	12790.5	12753.2	12534.4	12604.2	12338.8	11845.3	11538.0	11552.0
55°	13190.9	13158.3	13507.5	13768.3	13810.2	13530.8	13195.6	12823.1	12203.8	11891.9	11798.7
57°	12748.6	12823.1	13209.6	13982.5	14373.6	14043.0	13312.0	12632.2	11808.0	11430.9	11263.3
57.5°	12157.3	12278.3	12948.8	13726.4	14136.1	14108.2	13167.6	12278.3	11542.6	10956.0	10969.9
60°	8907.3	8930.5	9535.8	10769.7	12050.2	12078.1	10932.7	9754.7	8935.2	8297.3	8385.8
62.5°	4698.1	4805.2	5047.3	6039.1	7147.2	7417.3	6723.5	6118.2	5410.5	4926.2	4972.8
65°	2486.4	2472.4	2588.8	2868.2	3413.0	3552.7	3459.5	2979.9	2733.2	2654.0	2658.7
67.5°	2020.8	2044.1	2030.1	2044.1	2081.3	2141.8	2127.9	2146.5	2160.5	2183.7	2179.1
70°	1713.5	1713.5	1722.8	1727.4	1727.4	1755.4	1788.0	1848.5	1853.2	1876.4	1885.7
72.5°	1350.3	1341.0	1354.9	1387.5	1392.2	1415.5	1462.0	1499.3	1513.3	1513.3	1485.3
75°	917.3	926.6	945.2	973.1	1001.1	1043.0	1080.2	1103.5	1112.8	1098.9	1084.9
77.5°	516.8	526.1	540.1	582.0	614.6	651.9	693.8	717.1	740.3	745.0	717.1
80°	307.3	307.3	330.6	363.2	400.4	437.7	474.9	502.9	512.2	512.2	498.2
82.5°	186.2	190.9	209.5	242.1	274.7	298.0	330.6	353.9	372.5	367.8	358.5
85°	97.8	97.8	116.4	144.3	167.6	190.9	190.9	176.9	167.6	144.3	135.0
87.5°	32.6	27.9	37.2	37.2	32.6	37.2	37.2	41.9	41.9	41.9	41.9
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)