

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: P534076

Luminaire Tested: **GALN-SA9C-740-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534076
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-740-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 54071 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

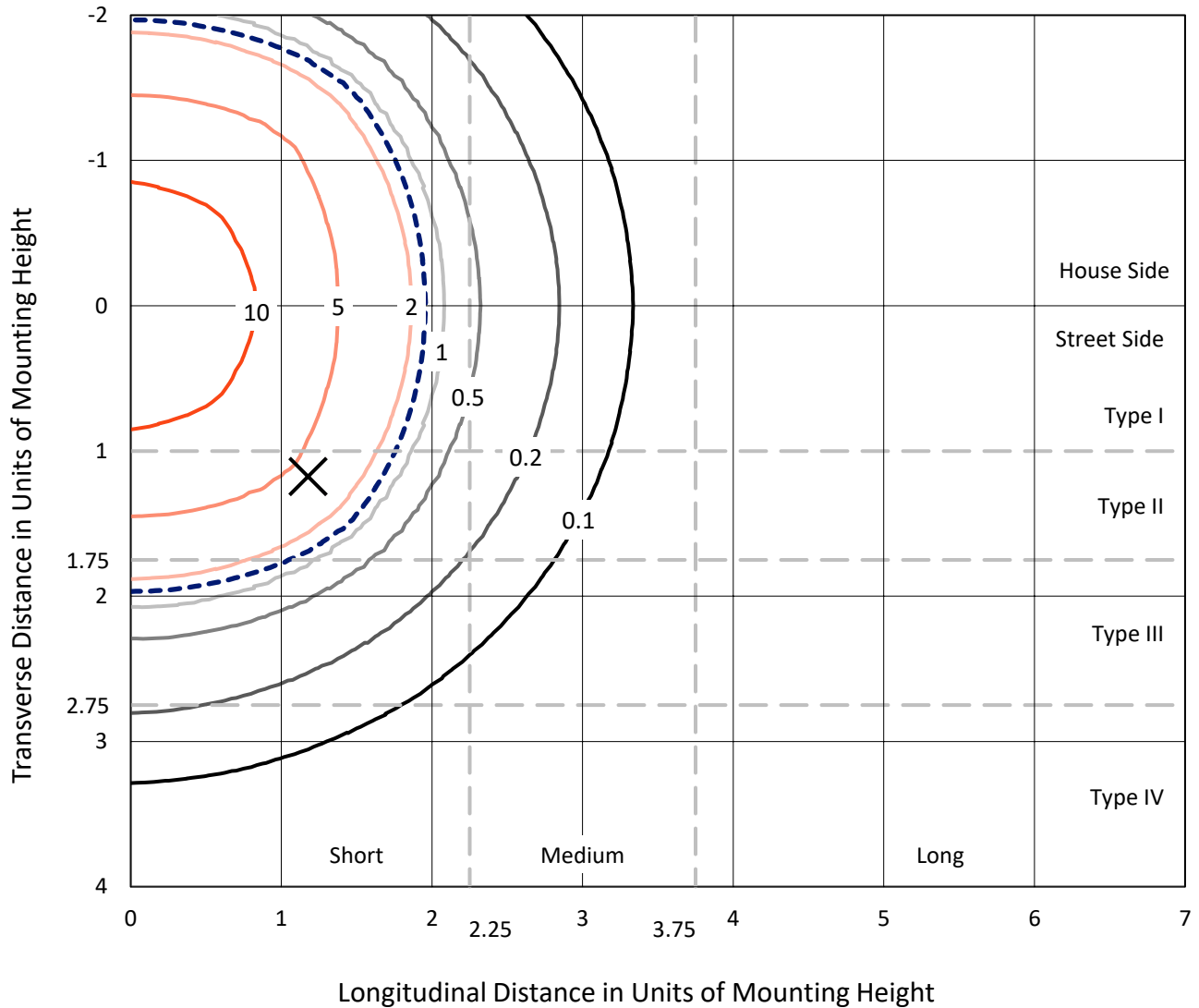
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

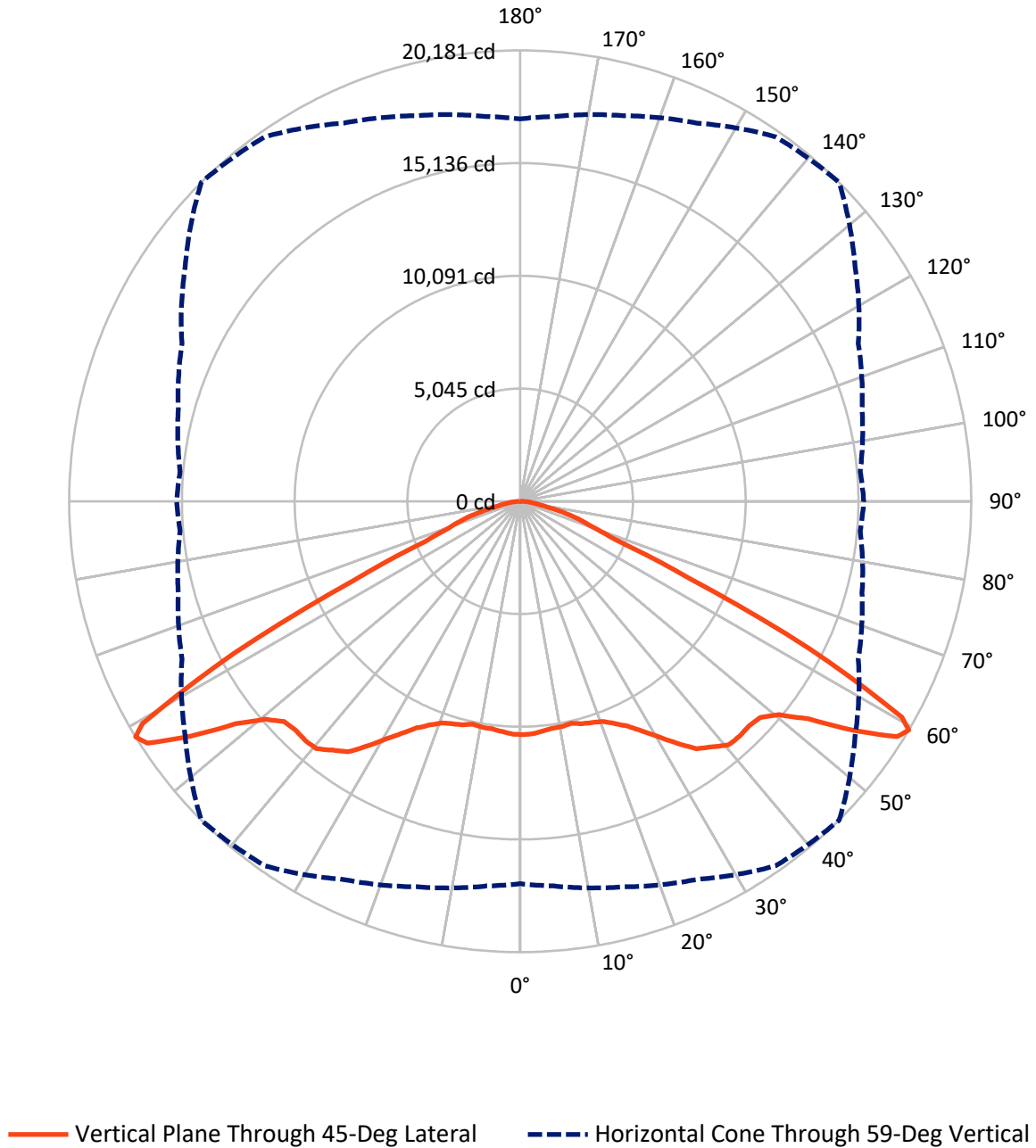
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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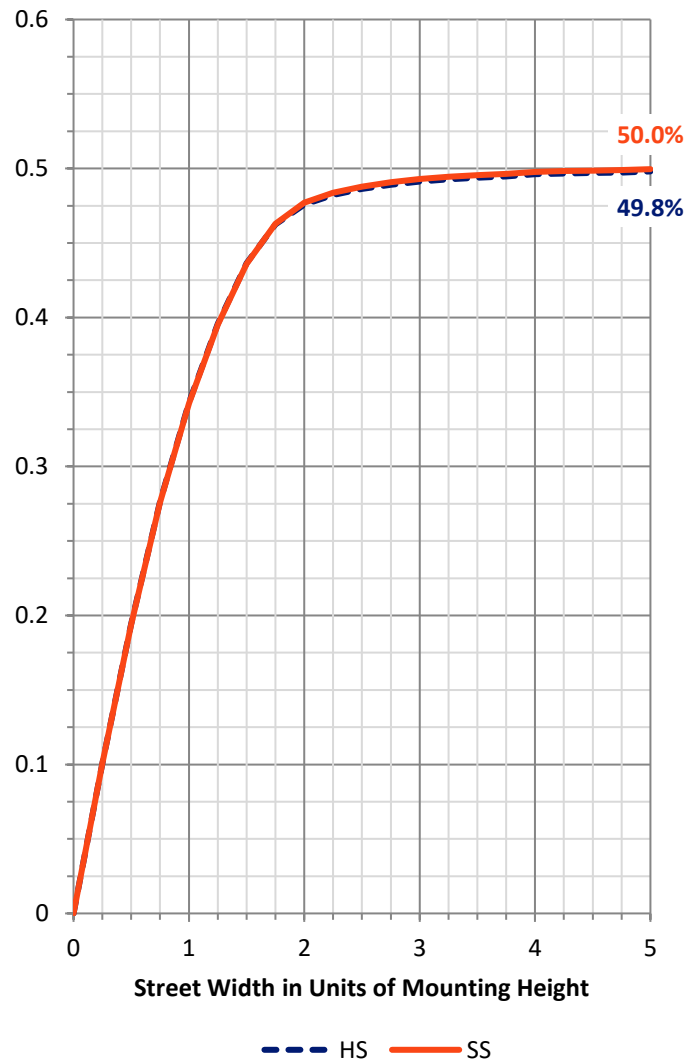
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	27035.5	0.0	27035.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	27035.5	0.0	27035.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	54071.0	0.0	54071.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	984.5	1.8
10°-20°	2927.8	5.4
20°-30°	5112.3	9.5
30°-40°	8165.1	15.1
40°-50°	11122.5	20.6
50°-60°	15040.5	27.8
60°-70°	8248.3	15.3
70°-80°	2110.1	3.9
80°-90°	359.9	0.7
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°	54071.0	100.0
0°-180°	54071.0	100.0



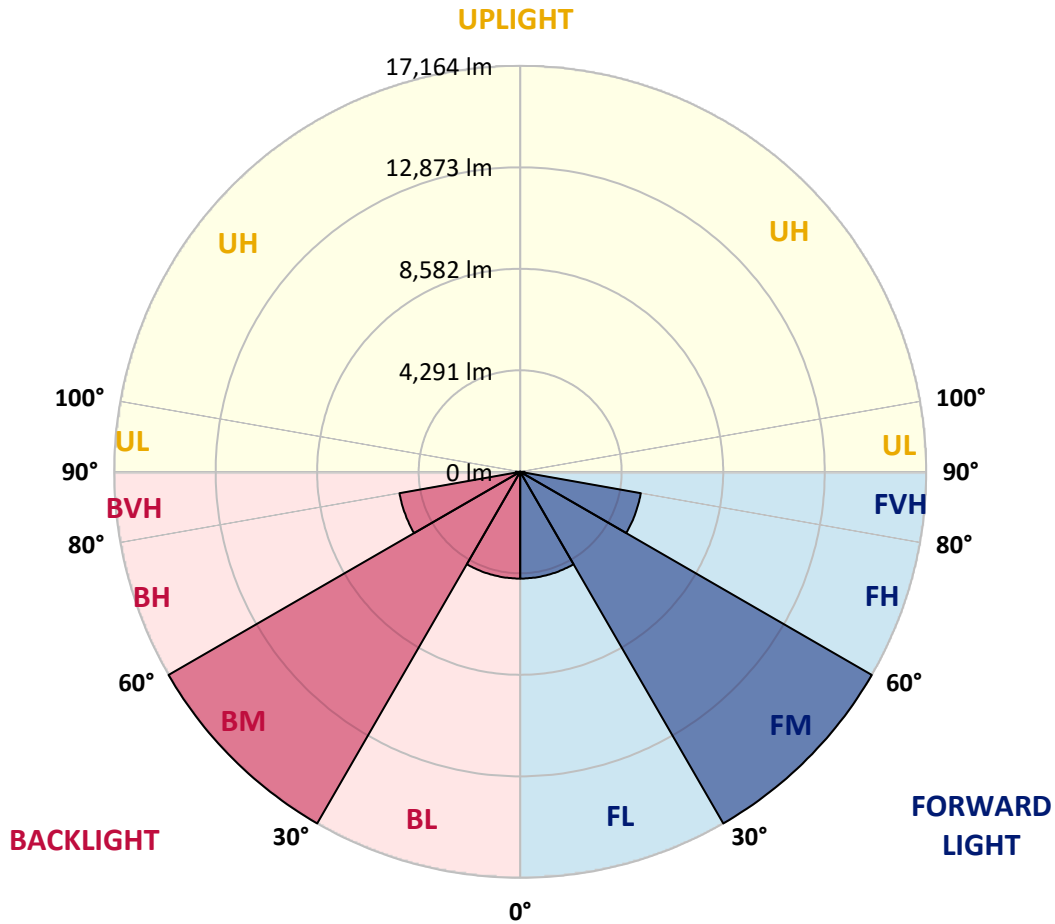
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4512.3	8.3			
FM (30°-60°)	17164.0	31.7			
FH (60°-80°)	5179.2	9.6			G3/7500
FVH (80°-90°)	179.9	0.3			G2/225
BL (0°-30°)	4512.3	8.3	B4/5000		
BM (30°-60°)	17164.0	31.7	B5		
BH (60°-80°)	5179.2	9.6	B5		G3/7500
BVH (80°-90°)	179.9	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	10443.9	10443.9	10443.9	10443.9	10443.9	10443.9	10443.9	10443.9	10443.9	10443.9	10443.9
2.5°	10381.6	10457.8	10402.3	10450.9	10443.9	10423.1	10388.5	10367.7	10340.0	10381.6	10312.3
5°	10340.0	10402.3	10464.7	10381.6	10381.6	10340.0	10319.2	10277.6	10277.6	10270.7	10263.7
7.5°	10409.3	10346.9	10319.2	10333.0	10346.9	10256.8	10319.2	10236.0	10166.7	10215.2	10270.7
10°	10346.9	10374.6	10270.7	10319.2	10243.0	10256.8	10215.2	10270.7	10194.4	10194.4	10194.4
12.5°	10409.3	10333.0	10367.7	10333.0	10312.3	10194.4	10249.9	10187.5	10180.6	10249.9	10187.5
15°	10534.0	10409.3	10381.6	10312.3	10333.0	10333.0	10277.6	10284.5	10208.3	10249.9	10263.7
17.5°	10492.4	10423.1	10402.3	10319.2	10388.5	10409.3	10305.3	10236.0	10284.5	10277.6	10270.7
20°	10527.1	10554.8	10534.0	10547.9	10575.6	10520.2	10423.1	10326.1	10263.7	10353.8	10346.9
22.5°	10748.9	10721.1	10707.3	10693.4	10741.9	10797.4	10665.7	10513.2	10513.2	10575.6	10603.3
25°	10929.1	10922.1	10915.2	10977.6	11143.9	11143.9	10977.6	10783.5	10735.0	10776.6	10741.9
27.5°	11192.4	11268.6	11240.9	11351.8	11594.4	11649.8	11428.0	11199.3	11067.7	11019.1	11081.5
30°	11795.3	11705.2	11726.0	11843.8	12058.7	12238.9	11899.3	11656.7	11476.5	11469.6	11497.3
32.5°	12197.3	12266.6	12329.0	12439.9	12779.4	12918.0	12509.2	12114.1	12003.2	11940.9	11961.7
35°	13001.2	12938.8	12925.0	13035.9	13375.4	13604.1	13091.3	12744.8	12599.2	12737.9	12737.9
37.5°	13763.5	13590.3	13458.6	13604.1	13916.0	13943.7	13507.1	13320.0	13243.8	13403.2	13396.2
40°	14123.9	14110.0	13805.1	13888.3	14304.1	14345.7	13936.8	13715.0	13701.2	13909.1	14117.0
42.5°	14498.1	14366.5	14061.5	14117.0	14373.4	14387.3	13999.2	13936.8	14089.3	14290.2	14304.1
45°	14560.5	14449.6	14255.6	14117.0	14304.1	14345.7	14117.0	14158.6	14172.4	14415.0	14415.0
47.5°	14685.3	14671.4	14560.5	14456.6	14491.2	14456.6	14311.0	14373.4	14581.3	14699.1	14643.7
50°	15031.8	14886.2	14997.1	14907.0	14914.0	15011.0	14879.3	14941.7	14900.1	14796.1	14726.8
52.5°	15794.1	15724.8	15821.8	15884.2	15953.5	16175.3	16022.8	15690.2	15378.3	15101.1	15094.1
55°	16909.9	16958.4	17145.5	17464.3	17734.6	18088.0	17353.4	16556.4	16057.5	15620.9	15648.6
57.5°	17963.3	17928.6	18185.1	18912.7	19702.8	19883.0	18441.5	17304.9	16494.1	16216.9	16099.0
59°	17117.8	17284.1	17866.3	18677.1	19917.6	20181.0	18295.9	16695.0	15835.7	15274.3	15371.4
60°	15787.2	15849.5	16369.3	17499.0	19176.1	19626.6	17318.8	15752.5	14609.0	14283.3	14428.8
62.5°	11157.8	11109.2	11483.5	12405.2	13909.1	14518.9	12876.5	11774.5	11053.8	10693.4	10776.6
65°	5932.3	6154.1	6306.6	6881.8	7678.7	8323.3	7644.1	7165.9	6764.0	6466.0	6459.0
67.5°	4005.7	3978.0	4012.6	4144.3	4414.6	4594.8	4580.9	4338.4	4303.7	4248.3	4310.6
70°	3375.0	3361.2	3298.8	3298.8	3354.3	3395.8	3444.3	3472.1	3527.5	3596.8	3589.9
72.5°	2737.5	2702.8	2661.2	2640.4	2709.7	2730.5	2792.9	2820.6	2869.1	2862.2	2924.6
75°	1808.8	1808.8	1857.3	1912.8	1933.5	1975.1	1982.1	2065.2	2065.2	2079.1	2023.6
77.5°	1011.8	984.1	1018.8	1074.2	1122.7	1198.9	1275.2	1337.5	1372.2	1358.3	1358.3
80°	589.1	589.1	623.7	686.1	748.5	817.8	873.2	921.7	956.4	942.5	914.8
82.5°	367.3	367.3	402.0	464.3	512.8	554.4	630.7	693.0	734.6	720.7	686.1
85°	187.1	187.1	228.7	270.3	332.7	360.4	353.4	325.7	318.8	284.1	284.1
87.5°	48.5	48.5	69.3	76.2	62.4	69.3	69.3	69.3	69.3	69.3	76.2
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)