

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: P651440

Luminaire Tested: **GALN-SA6D-840-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651440
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-SA6D-840-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 1200mA 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: 32730 lumens
Efficiency: N/A
Efficacy: 88.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

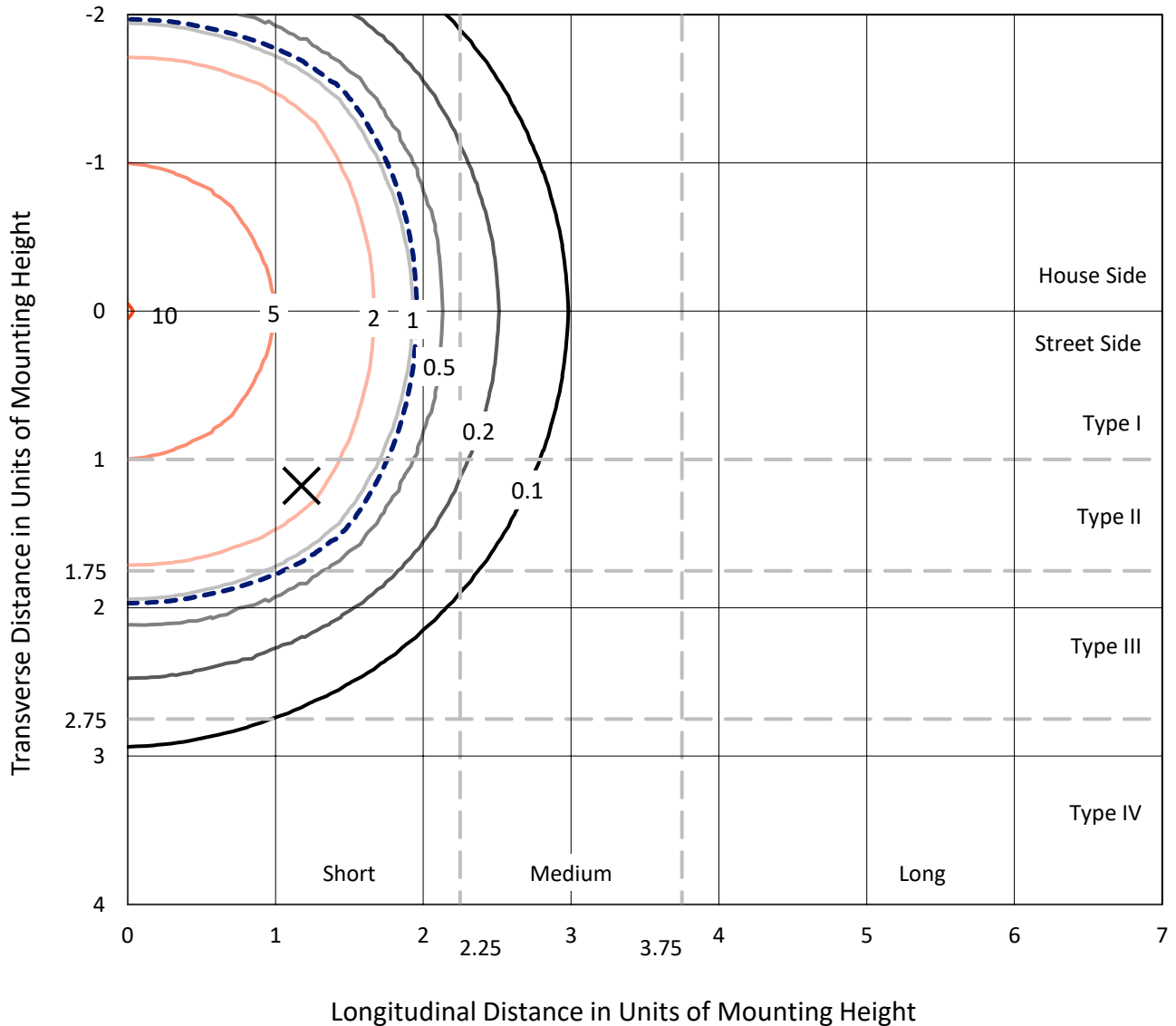
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

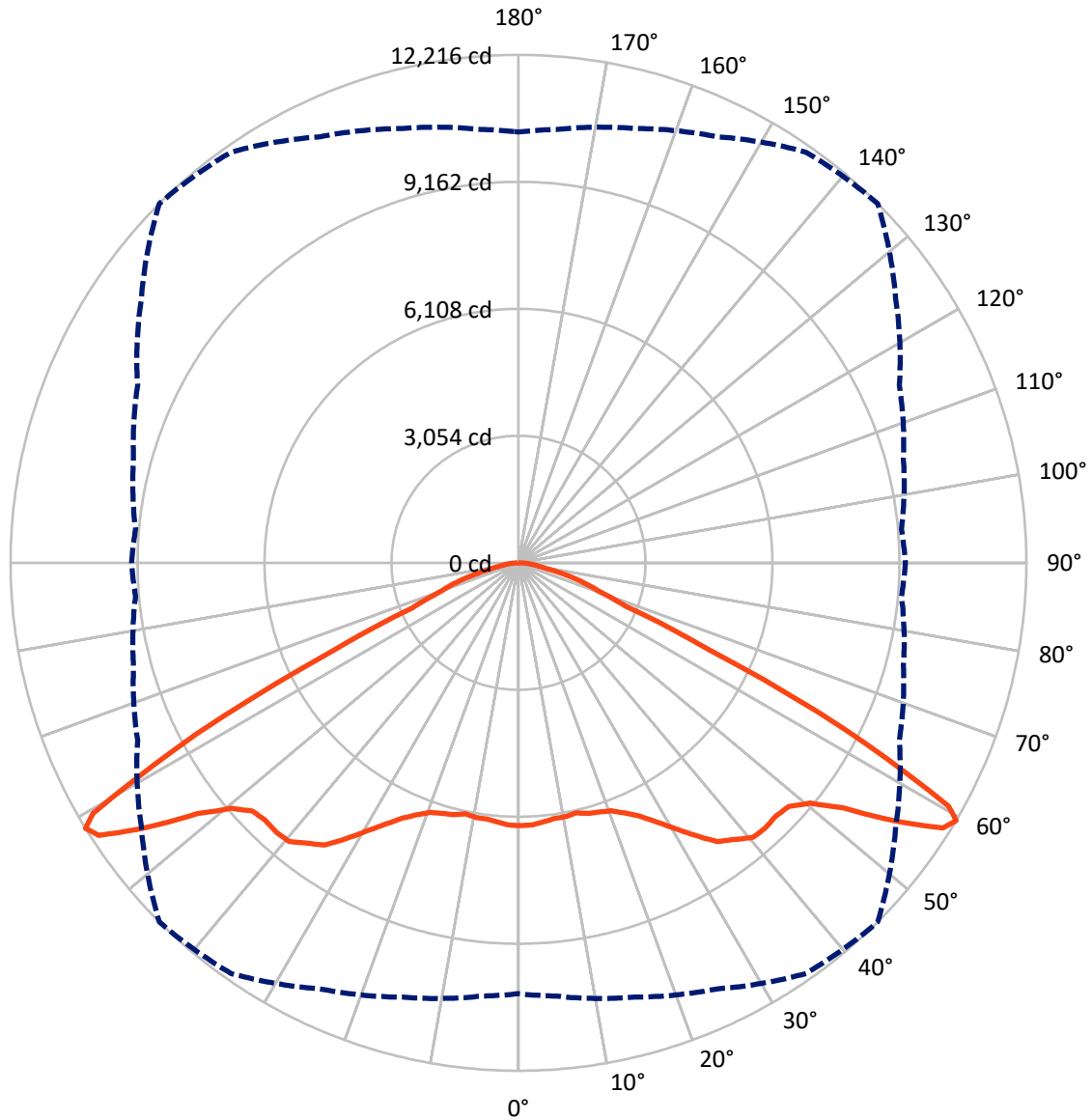
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 59-Deg Vertical

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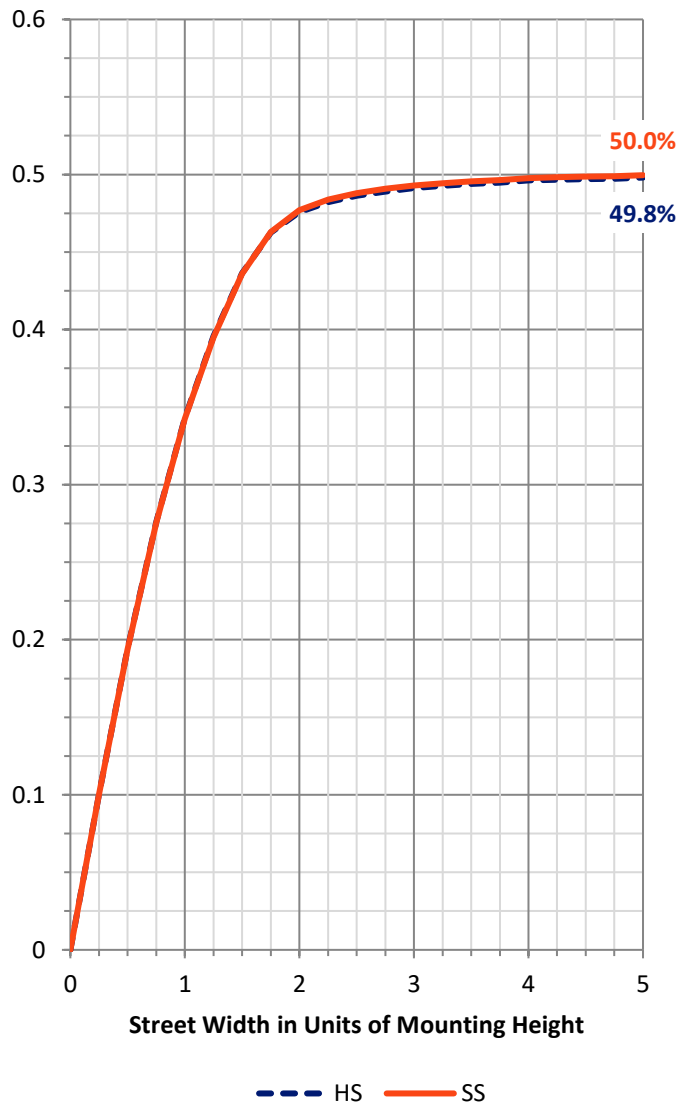
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16365.0	0.0	16365.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16365.0	0.0	16365.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	32730.0	0.0	32730.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	596.0	1.8
10°-20°	1772.3	5.4
20°-30°	3094.6	9.5
30°-40°	4942.4	15.1
40°-50°	6732.6	20.6
50°-60°	9104.3	27.8
60°-70°	4992.8	15.3
70°-80°	1277.3	3.9
80°-90°	217.9	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°	32730.0	100.0
0°-180°	32730.0	100.0

Coefficient of Utilization



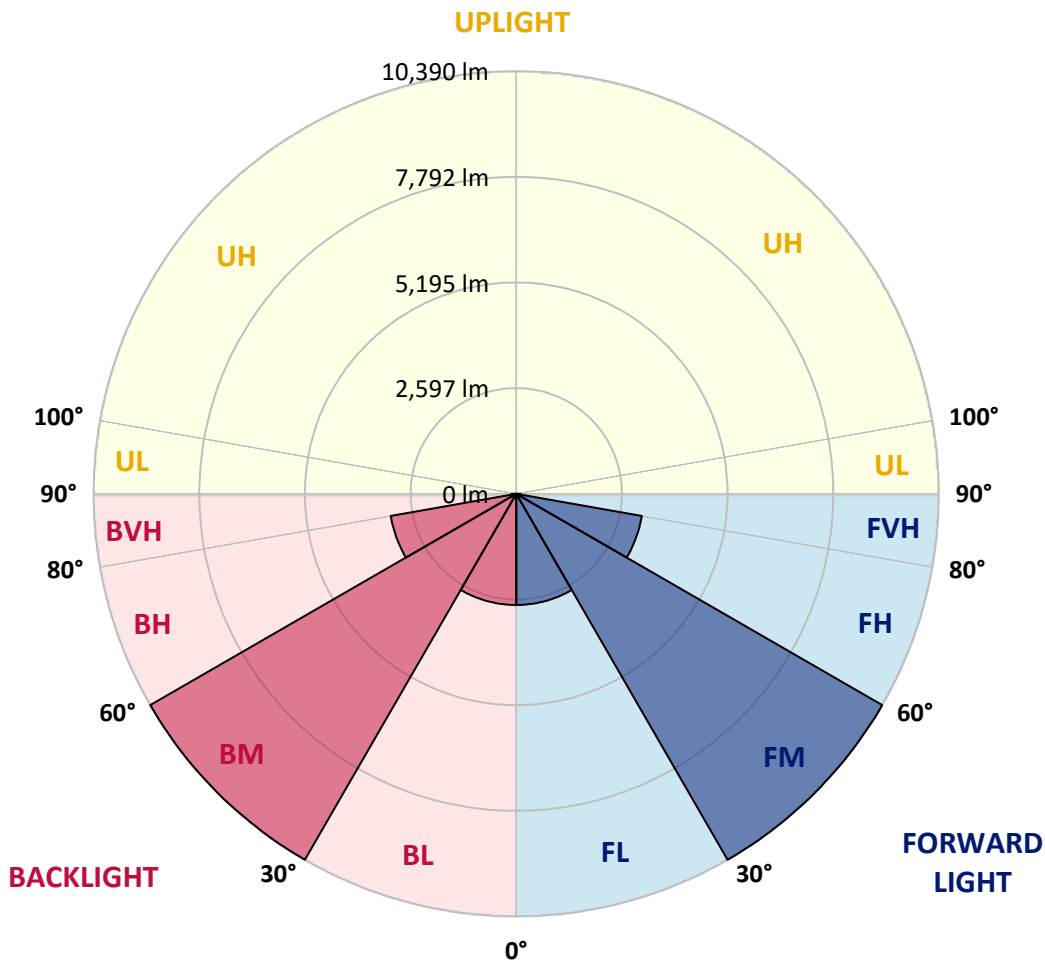
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2731.4	8.3			
FM (30°-60°)	10389.7	31.7			
FH (60°-80°)	3135.1	9.6			G2/5000
FVH (80°-90°)	108.9	0.3			G2/225
BL (0°-30°)	2731.4	8.3	B4/5000		
BM (30°-60°)	10389.7	31.7	B5		
BH (60°-80°)	3135.1	9.6	B4/5000		G2/5000
BVH (80°-90°)	108.9	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-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6321.9	6321.9	6321.9	6321.9	6321.9	6321.9	6321.9	6321.9	6321.9	6321.9	6321.9
2.5°	6284.1	6330.3	6296.7	6326.1	6321.9	6309.3	6288.3	6275.7	6259.0	6284.1	6242.2
5°	6259.0	6296.7	6334.5	6284.1	6284.1	6259.0	6246.4	6221.2	6221.2	6217.0	6212.8
7.5°	6300.9	6263.2	6246.4	6254.8	6263.2	6208.6	6246.4	6196.1	6154.1	6183.5	6217.0
10°	6263.2	6279.9	6217.0	6246.4	6200.2	6208.6	6183.5	6217.0	6170.8	6170.8	6170.8
12.5°	6300.9	6254.8	6275.7	6254.8	6242.2	6170.8	6204.4	6166.6	6162.4	6204.4	6166.6
15°	6376.4	6300.9	6284.1	6242.2	6254.8	6254.8	6221.2	6225.4	6179.2	6204.4	6212.8
17.5°	6351.2	6309.3	6296.7	6246.4	6288.3	6300.9	6237.9	6196.1	6225.4	6221.2	6217.0
20°	6372.3	6389.0	6376.4	6384.8	6401.6	6368.1	6309.3	6250.6	6212.8	6267.4	6263.2
22.5°	6506.5	6489.7	6481.3	6472.9	6502.3	6535.8	6456.1	6363.8	6363.8	6401.6	6418.3
25°	6615.6	6611.4	6607.1	6644.9	6745.6	6745.6	6644.9	6527.4	6498.1	6523.2	6502.3
27.5°	6774.9	6821.1	6804.3	6871.4	7018.2	7051.8	6917.6	6779.1	6699.4	6670.1	6707.8
30°	7139.9	7085.3	7098.0	7169.3	7299.3	7408.4	7202.8	7056.0	6946.9	6942.7	6959.5
32.5°	7383.2	7425.2	7462.9	7530.1	7735.6	7819.5	7572.0	7332.8	7265.7	7228.0	7240.6
35°	7869.8	7832.1	7823.7	7890.9	8096.4	8234.8	7924.4	7714.7	7626.5	7710.5	7710.5
37.5°	8331.3	8226.4	8146.7	8234.8	8423.5	8440.4	8176.0	8062.8	8016.7	8113.1	8108.9
40°	8549.4	8541.0	8356.4	8406.8	8658.5	8683.7	8436.2	8301.9	8293.5	8419.4	8545.2
42.5°	8775.9	8696.3	8511.7	8545.2	8700.5	8708.8	8473.9	8436.2	8528.4	8650.1	8658.5
45°	8813.7	8746.6	8629.2	8545.2	8658.5	8683.7	8545.2	8570.4	8578.8	8725.6	8725.6
47.5°	8889.2	8880.8	8813.7	8750.8	8771.8	8750.8	8662.7	8700.5	8826.3	8897.6	8864.1
50°	9098.9	9010.9	9078.0	9023.4	9027.6	9086.4	9006.7	9044.5	9019.3	8956.3	8914.4
52.5°	9560.4	9518.4	9577.2	9615.0	9657.0	9791.2	9698.8	9497.5	9308.7	9140.9	9136.7
55°	10235.8	10265.2	10378.4	10571.5	10735.0	10949.0	10504.3	10021.9	9719.9	9455.5	9472.4
57.5°	10873.5	10852.5	11007.7	11448.2	11926.4	12035.5	11162.9	10474.9	9984.1	9816.3	9745.0
59°	10361.7	10462.4	10814.8	11305.6	12056.5	12215.9	11074.8	10105.8	9585.6	9245.8	9304.5
60°	9556.2	9594.0	9908.6	10592.4	11607.6	11880.3	10483.3	9535.3	8843.1	8645.9	8734.0
62.5°	6754.0	6724.6	6951.1	7509.0	8419.4	8788.5	7794.3	7127.3	6691.1	6472.9	6523.2
65°	3590.9	3725.2	3817.5	4165.6	4648.0	5038.2	4627.1	4337.6	4094.3	3913.9	3909.7
67.5°	2424.7	2408.0	2428.9	2508.6	2672.2	2781.3	2772.9	2626.1	2605.1	2571.5	2609.3
70°	2043.0	2034.5	1996.8	1996.8	2030.3	2055.6	2084.9	2101.7	2135.3	2177.2	2173.0
72.5°	1657.0	1636.1	1610.9	1598.3	1640.3	1652.8	1690.6	1707.4	1736.7	1732.5	1770.3
75°	1094.9	1094.9	1124.2	1157.8	1170.4	1195.6	1199.8	1250.1	1250.1	1258.5	1224.9
77.5°	612.5	595.7	616.7	650.3	679.6	725.7	771.9	809.6	830.6	822.2	822.2
80°	356.6	356.6	377.5	415.3	453.0	495.0	528.6	557.9	578.9	570.5	553.7
82.5°	222.4	222.4	243.3	281.1	310.4	335.6	381.7	419.5	444.6	436.3	415.3
85°	113.3	113.3	138.4	163.6	201.3	218.2	214.0	197.1	193.0	172.0	172.0
87.5°	29.4	29.4	42.0	46.2	37.8	42.0	42.0	42.0	42.0	42.0	46.2
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)