

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: P530566

Luminaire Tested: **GALN-SA5D-740-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530566
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-SA5D-740-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 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: 32866 lumens
Efficiency: N/A
Efficacy: 106.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

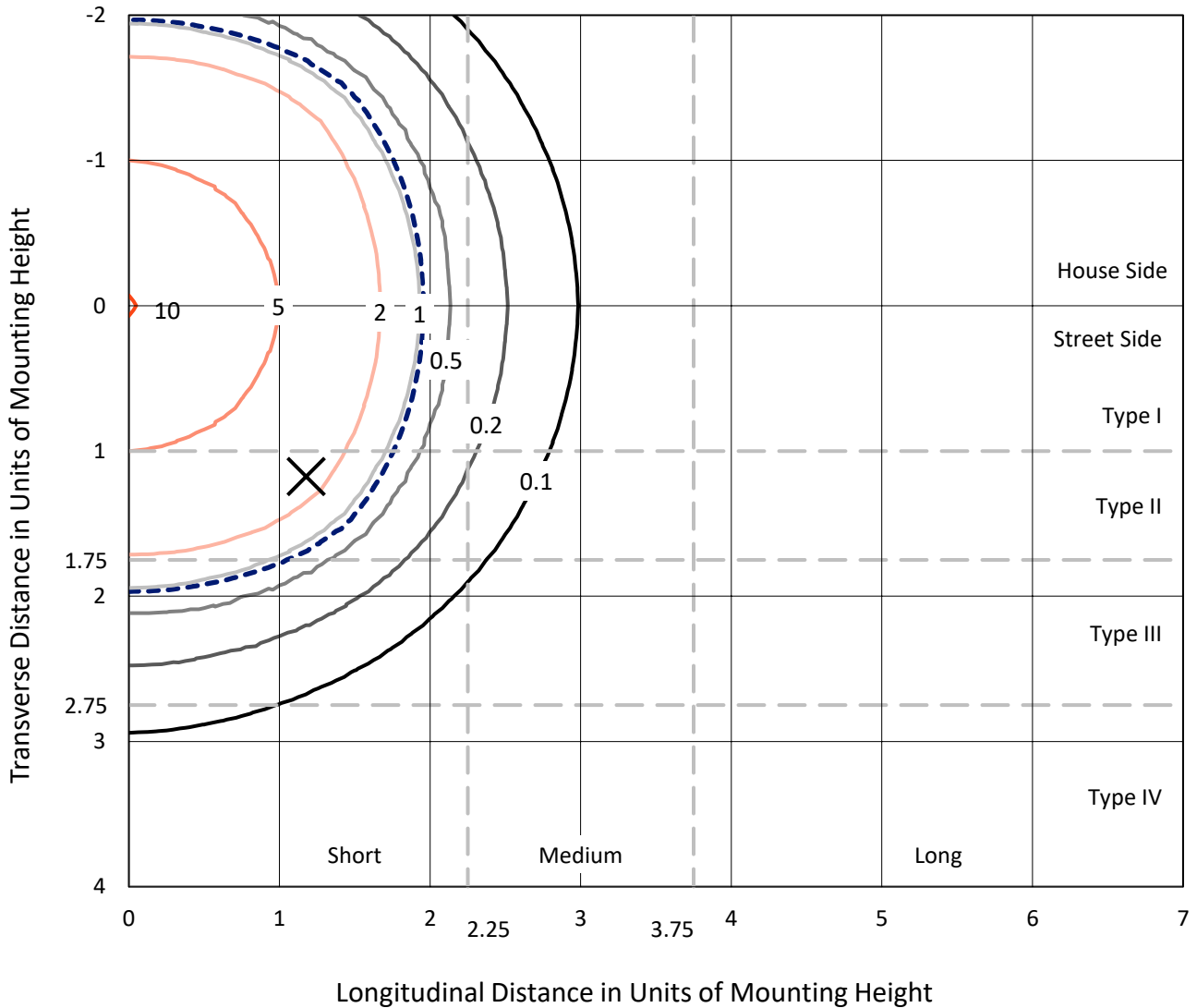
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

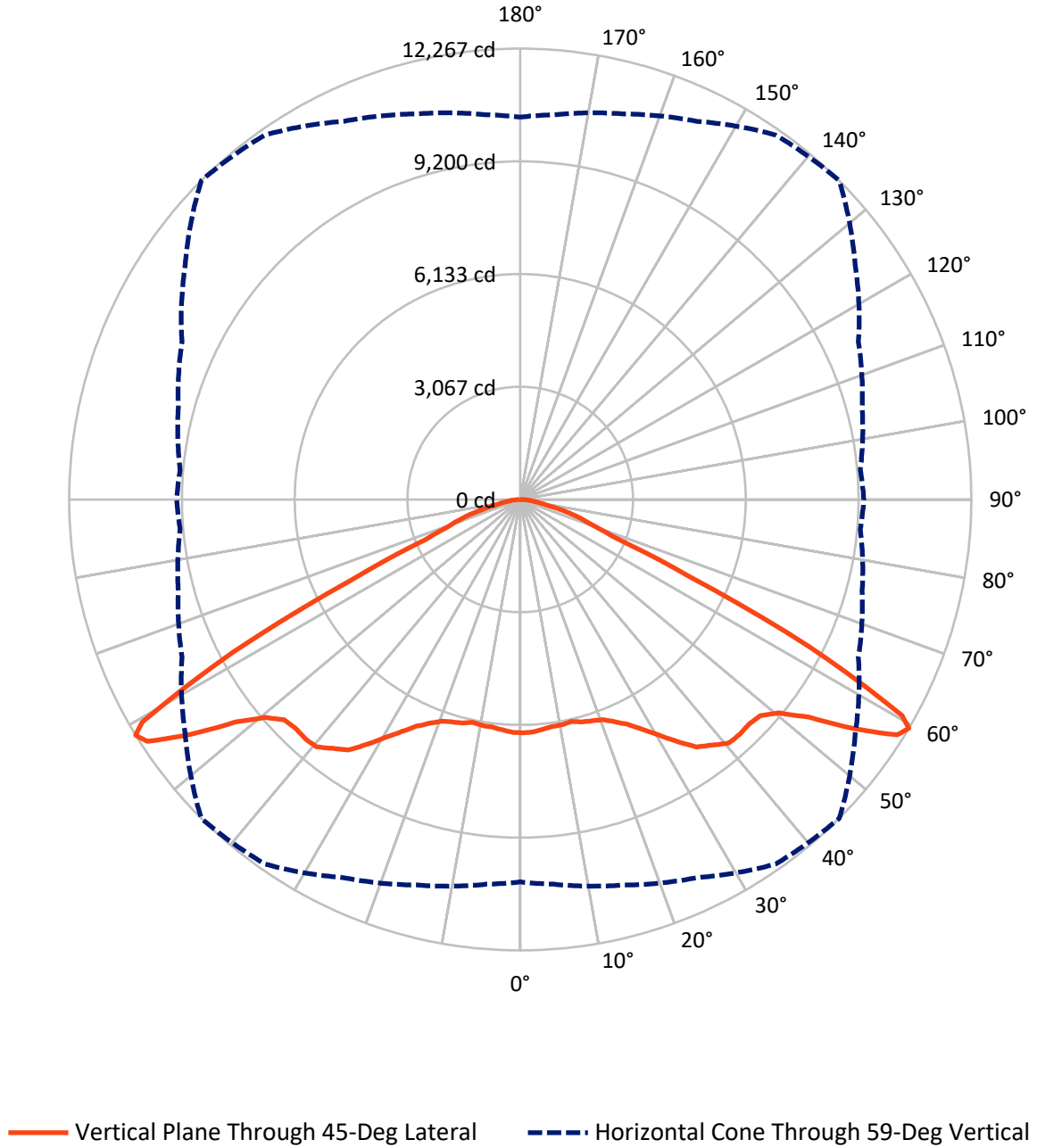
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 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	16433.0	0.0	16433.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16433.0	0.0	16433.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	32866.0	0.0	32866.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	598.4	1.8
10°-20°	1779.6	5.4
20°-30°	3107.4	9.5
30°-40°	4963.0	15.1
40°-50°	6760.6	20.6
50°-60°	9142.1	27.8
60°-70°	5013.5	15.3
70°-80°	1282.6	3.9
80°-90°	218.7	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°	32866.0	100.0
0°-180°	32866.0	100.0

Coefficient of Utilization



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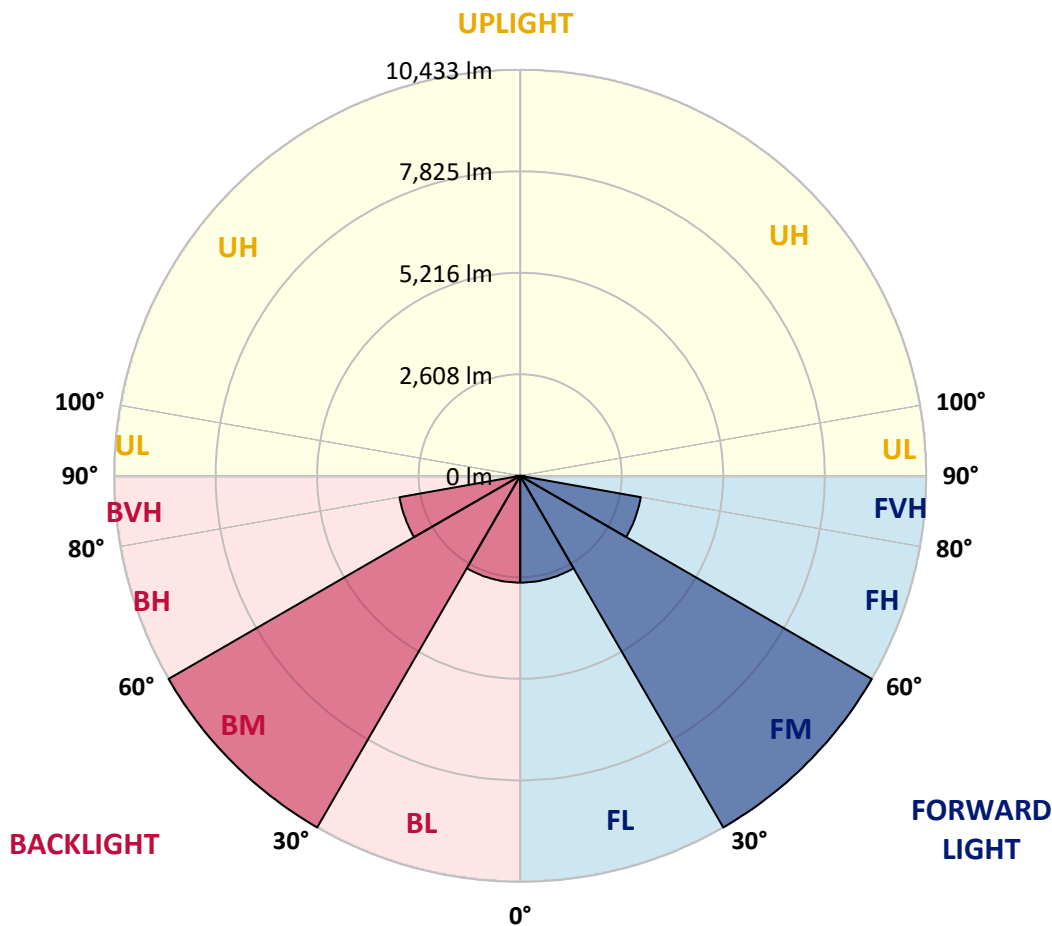
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2742.7	8.3			
FM (30°-60°)	10432.8	31.7			
FH (60°-80°)	3148.1	9.6			G2/5000
FVH (80°-90°)	109.4	0.3			G2/225
BL (0°-30°)	2742.7	8.3	B4/5000		
BM (30°-60°)	10432.8	31.7	B5		
BH (60°-80°)	3148.1	9.6	B4/5000		G2/5000
BVH (80°-90°)	109.4	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°	6348.1	6348.1	6348.1	6348.1	6348.1	6348.1	6348.1	6348.1	6348.1	6348.1	6348.1
2.5°	6310.2	6356.6	6322.9	6352.4	6348.1	6335.5	6314.4	6301.8	6285.0	6310.2	6268.1
5°	6285.0	6322.9	6360.8	6310.2	6310.2	6285.0	6272.3	6247.0	6247.0	6242.8	6238.6
7.5°	6327.1	6289.2	6272.3	6280.7	6289.2	6234.4	6272.3	6221.8	6179.6	6209.1	6242.8
10°	6289.2	6306.0	6242.8	6272.3	6226.0	6234.4	6209.1	6242.8	6196.5	6196.5	6196.5
12.5°	6327.1	6280.7	6301.8	6280.7	6268.1	6196.5	6230.2	6192.3	6188.1	6230.2	6192.3
15°	6402.9	6327.1	6310.2	6268.1	6280.7	6280.7	6247.0	6251.3	6204.9	6230.2	6238.6
17.5°	6377.6	6335.5	6322.9	6272.3	6314.4	6327.1	6263.9	6221.8	6251.3	6247.0	6242.8
20°	6398.7	6415.5	6402.9	6411.3	6428.2	6394.5	6335.5	6276.5	6238.6	6293.4	6289.2
22.5°	6533.5	6516.6	6508.2	6499.8	6529.3	6563.0	6482.9	6390.3	6390.3	6428.2	6445.0
25°	6643.0	6638.8	6634.6	6672.5	6773.6	6773.6	6672.5	6554.5	6525.1	6550.3	6529.3
27.5°	6803.1	6849.4	6832.6	6900.0	7047.4	7081.1	6946.3	6807.3	6727.3	6697.8	6735.7
30°	7169.6	7114.8	7127.4	7199.1	7329.6	7439.2	7232.8	7085.3	6975.8	6971.6	6988.4
32.5°	7413.9	7456.0	7493.9	7561.3	7767.7	7852.0	7603.4	7363.3	7295.9	7258.0	7270.7
35°	7902.5	7864.6	7856.2	7923.6	8130.0	8269.0	7957.3	7746.7	7658.2	7742.5	7742.5
37.5°	8365.9	8260.6	8180.5	8269.0	8458.6	8475.4	8210.0	8096.3	8050.0	8146.8	8142.6
40°	8584.9	8576.5	8391.2	8441.7	8694.5	8719.7	8471.2	8336.4	8328.0	8454.4	8580.7
42.5°	8812.4	8732.4	8547.0	8580.7	8736.6	8745.0	8509.1	8471.2	8563.9	8686.0	8694.5
45°	8850.3	8782.9	8665.0	8580.7	8694.5	8719.7	8580.7	8606.0	8614.4	8761.9	8761.9
47.5°	8926.1	8917.7	8850.3	8787.1	8808.2	8787.1	8698.7	8736.6	8863.0	8934.6	8900.9
50°	9136.8	9048.3	9115.7	9060.9	9065.2	9124.1	9044.1	9082.0	9056.7	8993.5	8951.4
52.5°	9600.1	9558.0	9617.0	9654.9	9697.0	9831.8	9739.1	9537.0	9347.4	9178.9	9174.7
55°	10278.3	10307.8	10421.6	10615.3	10779.6	10994.5	10547.9	10063.5	9760.2	9494.8	9511.7
57.5°	10918.6	10897.6	11053.4	11495.7	11976.0	12085.5	11209.3	10518.5	10025.6	9857.1	9785.5
59°	10404.7	10505.8	10859.7	11352.5	12106.5	12266.6	11120.8	10147.8	9625.4	9284.2	9343.2
60°	9595.9	9633.8	9949.8	10636.4	11655.8	11929.6	10526.9	9574.9	8879.8	8681.8	8770.3
62.5°	6782.0	6752.5	6980.0	7540.3	8454.4	8825.1	7826.7	7156.9	6718.8	6499.8	6550.3
65°	3605.8	3740.6	3833.3	4182.9	4667.4	5059.1	4646.3	4355.7	4111.3	3930.2	3926.0
67.5°	2434.8	2417.9	2439.0	2519.0	2683.3	2792.8	2784.4	2637.0	2615.9	2582.2	2620.1
70°	2051.5	2043.0	2005.1	2005.1	2038.8	2064.1	2093.6	2110.4	2144.1	2186.3	2182.0
72.5°	1663.9	1642.8	1617.6	1604.9	1647.1	1659.7	1697.6	1714.5	1743.9	1739.7	1777.6
75°	1099.4	1099.4	1128.9	1162.6	1175.3	1200.5	1204.8	1255.3	1255.3	1263.7	1230.0
77.5°	615.0	598.2	619.2	652.9	682.4	728.8	775.1	813.0	834.1	825.6	825.6
80°	358.1	358.1	379.1	417.0	454.9	497.1	530.8	560.3	581.3	572.9	556.0
82.5°	223.3	223.3	244.3	282.2	311.7	337.0	383.3	421.2	446.5	438.1	417.0
85°	113.7	113.7	139.0	164.3	202.2	219.0	214.8	198.0	193.8	172.7	172.7
87.5°	29.5	29.5	42.1	46.3	37.9	42.1	42.1	42.1	42.1	42.1	46.3
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)