

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: P651384

Luminaire Tested: **GALN-SA5D-840-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651384
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5D-840-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16994.9 lumens
Efficiency: N/A
Efficacy: 55.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

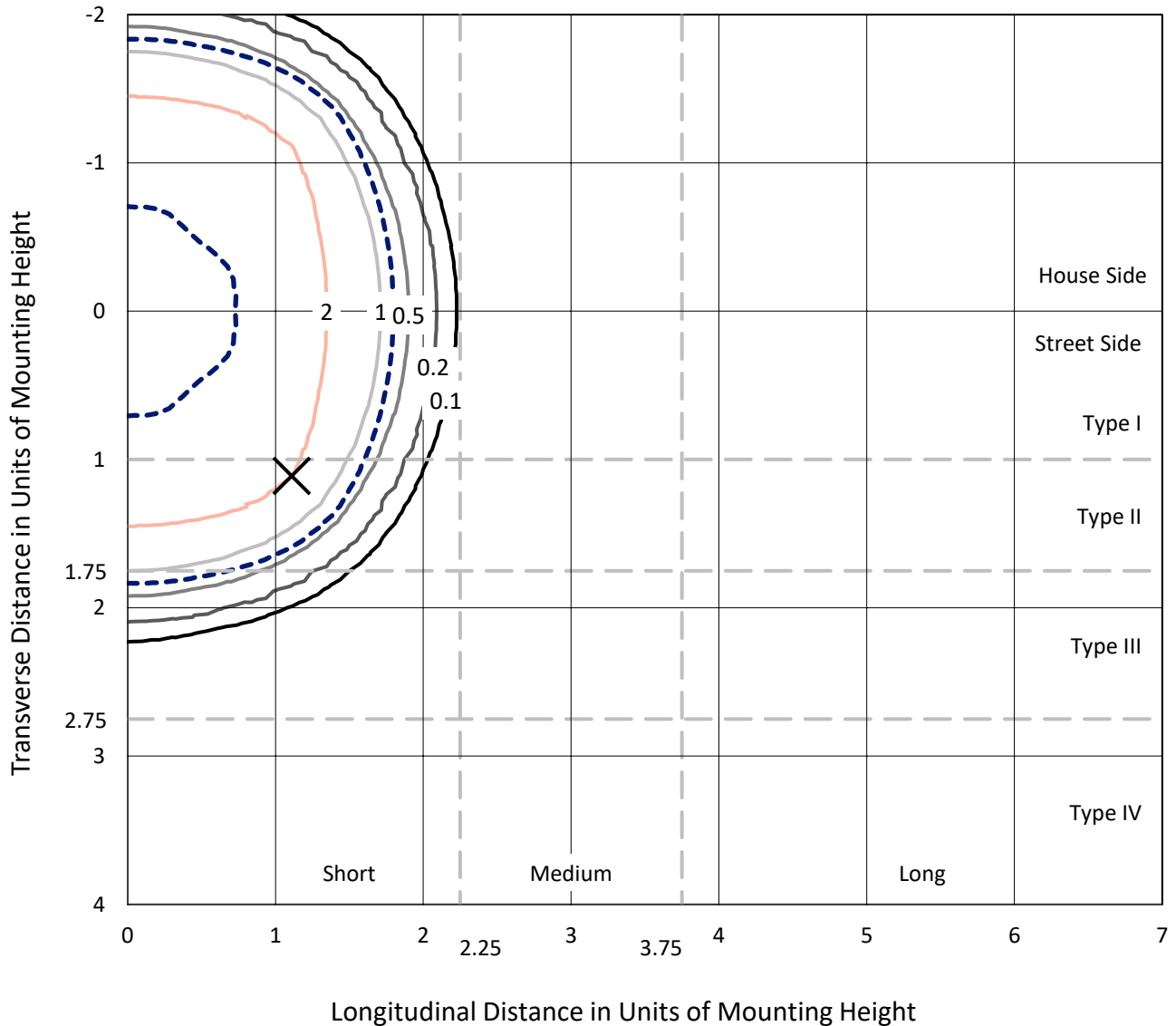
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

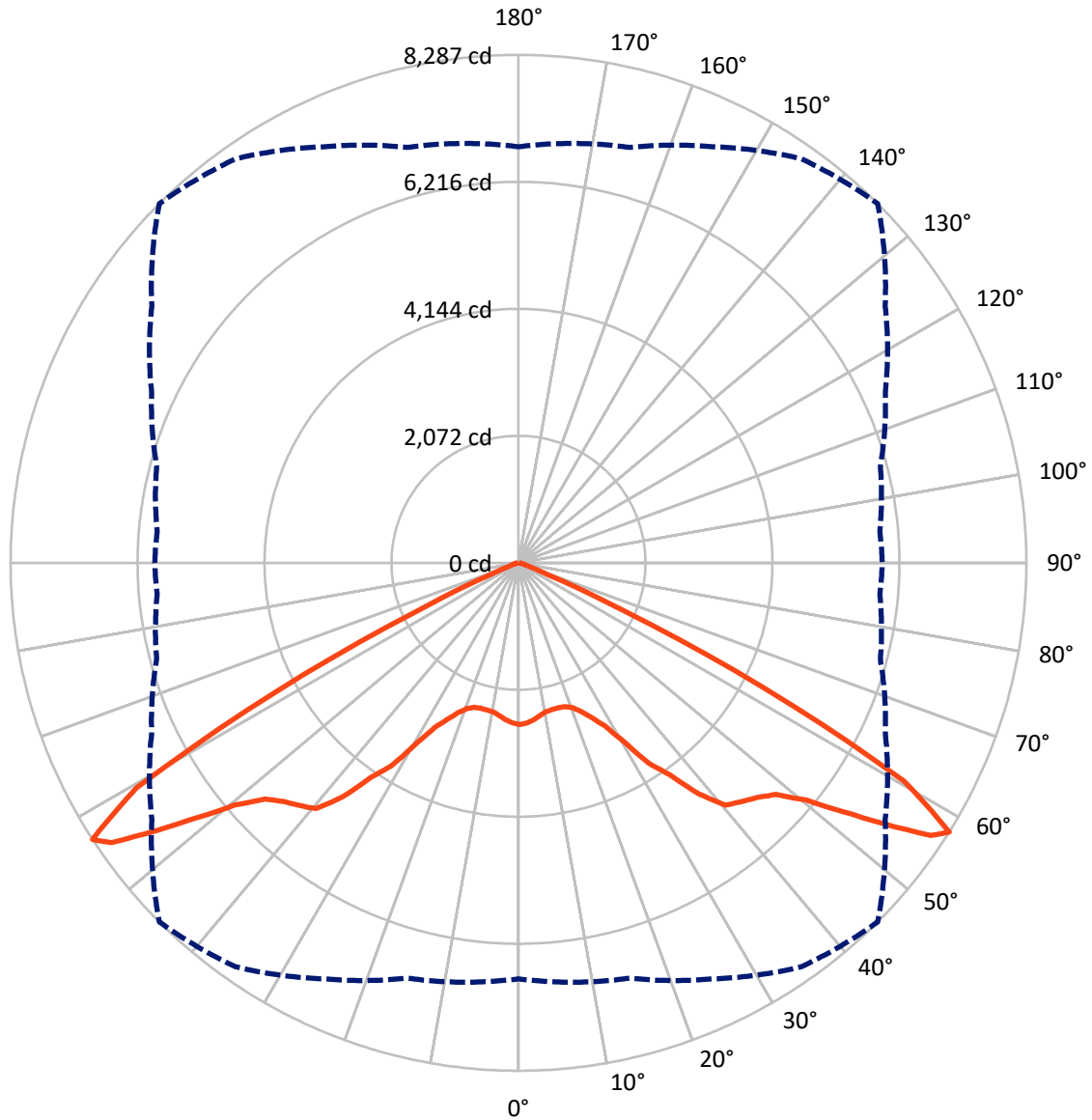
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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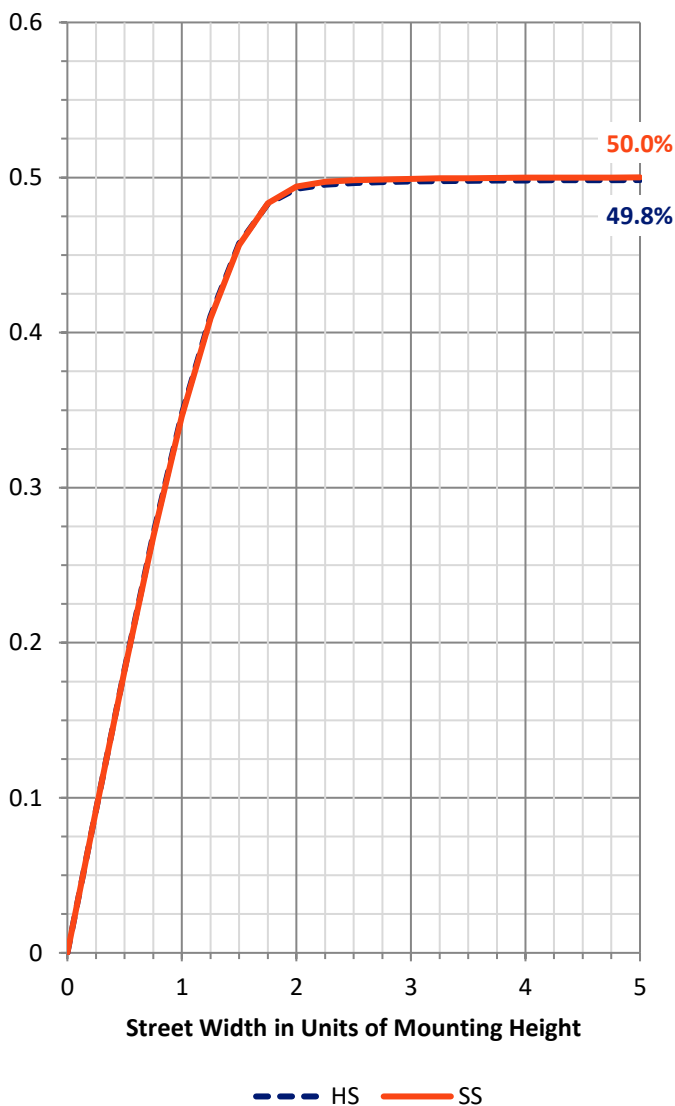
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8497.5	0.0	8497.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8497.5	0.0	8497.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	16994.9	0.0	16994.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.2	1.4
10°-20°	700.2	4.1
20°-30°	1292.5	7.6
30°-40°	2541.8	15.0
40°-50°	4139.9	24.4
50°-60°	5904.0	34.7
60°-70°	2044.1	12.0
70°-80°	109.7	0.6
80°-90°	20.6	0.1
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°	16994.9	100.0
0°-180°	16994.9	100.0

Coefficient of Utilization

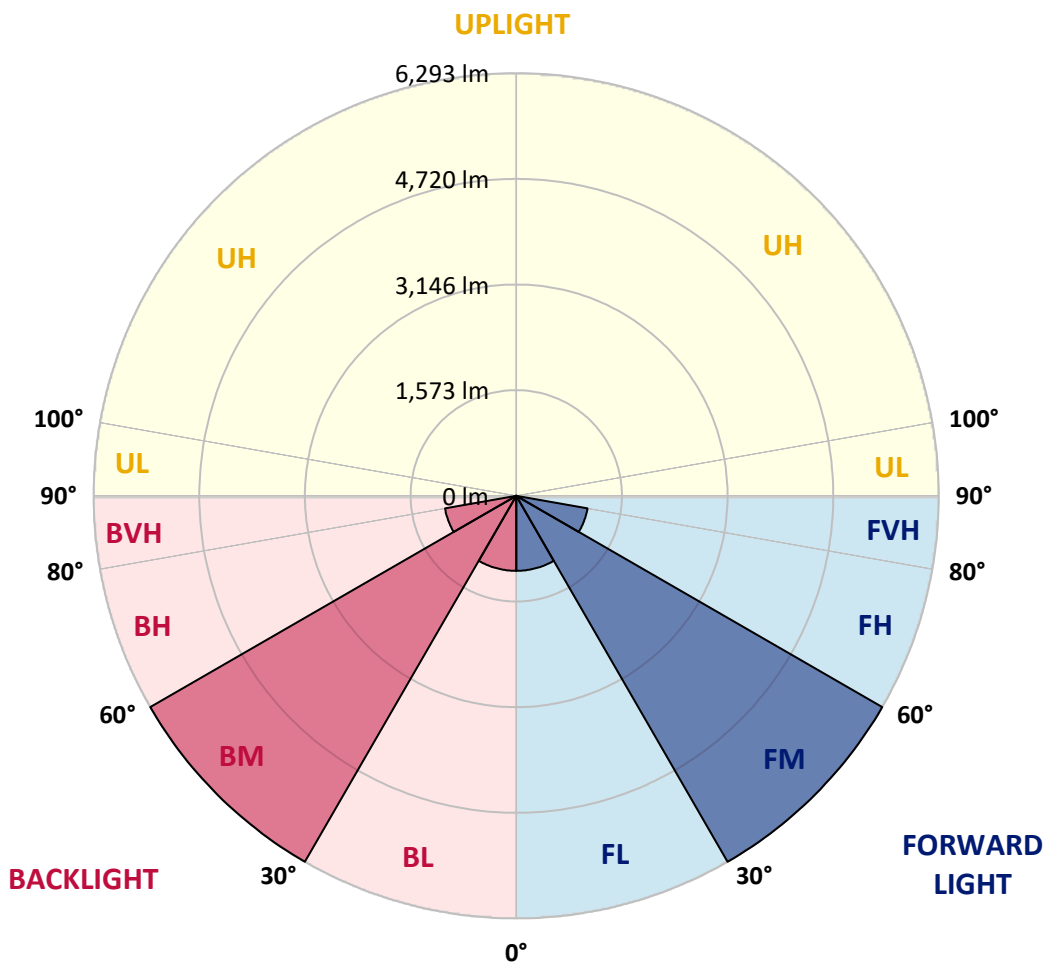


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1117.5	6.6			
FM	(30°-60°)	6292.8	37.0			
FH	(60°-80°)	1076.9	6.3			G1/1800
FVH	(80°-90°)	10.3	0.1			G1/100
BL	(0°-30°)	1117.5	6.6	B3/2500		
BM	(30°-60°)	6292.8	37.0	B4/8500		
BH	(60°-80°)	1076.9	6.3	B3/2500		G1/1800
BVH	(80°-90°)	10.3	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2636.1	2636.1	2636.1	2636.1	2636.1	2636.1	2636.1	2636.1	2636.1	2636.1	2636.1
2.5°	2629.0	2643.2	2625.4	2618.4	2614.8	2614.8	2604.2	2604.2	2600.6	2604.2	2590.0
5°	2586.5	2600.6	2600.6	2597.1	2575.9	2572.3	2561.7	2554.6	2558.2	2543.9	2554.6
7.5°	2543.9	2554.6	2540.4	2536.9	2529.8	2515.6	2512.1	2480.2	2483.7	2483.7	2490.8
10°	2536.9	2533.3	2512.1	2494.4	2473.1	2469.6	2458.9	2451.9	2451.9	2448.3	2458.9
12.5°	2536.9	2519.1	2515.6	2476.7	2441.3	2455.4	2427.0	2409.3	2434.1	2441.3	2455.4
15°	2533.3	2551.1	2490.8	2473.1	2448.3	2451.9	2427.0	2409.3	2423.5	2430.6	2441.3
17.5°	2554.6	2543.9	2526.3	2490.8	2480.2	2466.0	2434.1	2420.0	2420.0	2437.6	2441.3
20°	2611.3	2583.0	2547.5	2529.8	2540.4	2522.7	2483.7	2430.6	2444.8	2458.9	2469.6
22.5°	2664.5	2643.2	2618.4	2607.8	2668.0	2639.6	2572.3	2512.1	2490.8	2515.6	2533.3
25°	2767.2	2767.2	2721.1	2735.3	2802.6	2806.2	2728.2	2621.9	2607.8	2618.4	2625.4
27.5°	2976.2	2986.9	2947.9	2962.1	2990.4	3015.2	2947.9	2859.3	2827.4	2823.9	2834.5
30°	3203.0	3224.2	3220.7	3280.9	3362.4	3376.6	3277.4	3132.1	3036.4	3018.8	3032.9
32.5°	3500.6	3511.3	3504.2	3575.0	3794.7	3897.4	3638.8	3433.3	3305.7	3337.6	3305.7
35°	4060.4	4049.8	3971.9	3986.0	4166.7	4241.2	3993.2	3862.0	3801.7	3865.6	3851.4
37.5°	4542.3	4503.3	4439.6	4531.6	4719.4	4786.8	4528.1	4297.8	4188.0	4294.3	4340.3
40°	4949.8	4850.6	4762.0	4854.1	5105.6	5197.8	4818.7	4630.9	4588.3	4666.3	4765.5
42.5°	5293.4	5229.7	5112.8	5119.8	5286.4	5328.9	5024.1	4914.3	4871.8	4995.8	5045.4
45°	5537.9	5477.7	5367.9	5360.8	5488.3	5459.9	5187.1	5112.8	5137.6	5219.0	5243.8
47.5°	5661.9	5693.8	5630.1	5647.7	5715.1	5647.7	5431.6	5431.6	5374.9	5424.5	5399.7
50°	6019.8	5920.6	6002.0	6002.0	6072.9	6080.0	5863.9	5785.9	5633.6	5548.6	5548.6
52.5°	6437.9	6444.9	6476.9	6593.8	6714.2	6817.0	6508.8	6175.7	5920.6	5810.7	5796.6
55°	6781.6	6852.4	6980.0	7199.6	7546.9	7688.6	7157.2	6561.9	6250.1	6080.0	6044.6
56°	6969.4	6902.0	7121.7	7422.8	7876.4	8060.6	7263.5	6639.9	6296.1	6104.8	6101.3
57.5°	6788.6	6863.1	7015.4	7490.2	8046.4	8287.4	7302.4	6604.4	6111.9	5917.0	5934.8
60°	5360.8	5431.6	5637.1	6168.6	7040.2	7228.0	6179.2	5445.8	5006.5	4726.5	4730.1
62.5°	3032.9	3086.0	3245.5	3738.0	4280.1	4460.8	3851.4	3362.4	3057.7	2901.8	2852.3
65°	1116.1	1094.8	1119.6	1371.2	1704.3	1856.6	1601.5	1353.5	1194.1	1137.4	1116.1
67.5°	418.1	386.2	361.4	386.2	485.4	513.8	471.2	393.3	368.5	379.1	386.2
70°	258.6	244.5	194.9	184.3	180.7	177.2	187.8	198.4	226.7	265.8	272.8
72.5°	180.7	170.1	138.2	131.1	124.0	120.4	138.2	152.4	177.2	205.5	209.1
75°	70.9	74.4	70.9	78.0	81.5	85.0	99.2	109.8	120.4	120.4	116.9
77.5°	14.2	14.2	21.3	28.3	35.4	46.1	67.3	78.0	81.5	78.0	67.3
80°	0.0	0.0	7.1	14.2	28.3	38.9	60.2	67.3	74.4	67.3	53.2
82.5°	0.0	0.0	7.1	17.7	28.3	35.4	56.7	70.9	81.5	74.4	56.7
85°	0.0	0.0	7.1	14.2	21.3	24.8	24.8	17.7	17.7	10.6	7.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)