

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: P651336

Luminaire Tested: **GALN-SA4D-840-U-RW-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651336
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-7)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4D-840-U-RW-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16632.5 lumens
Efficiency: N/A
Efficacy: 67.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

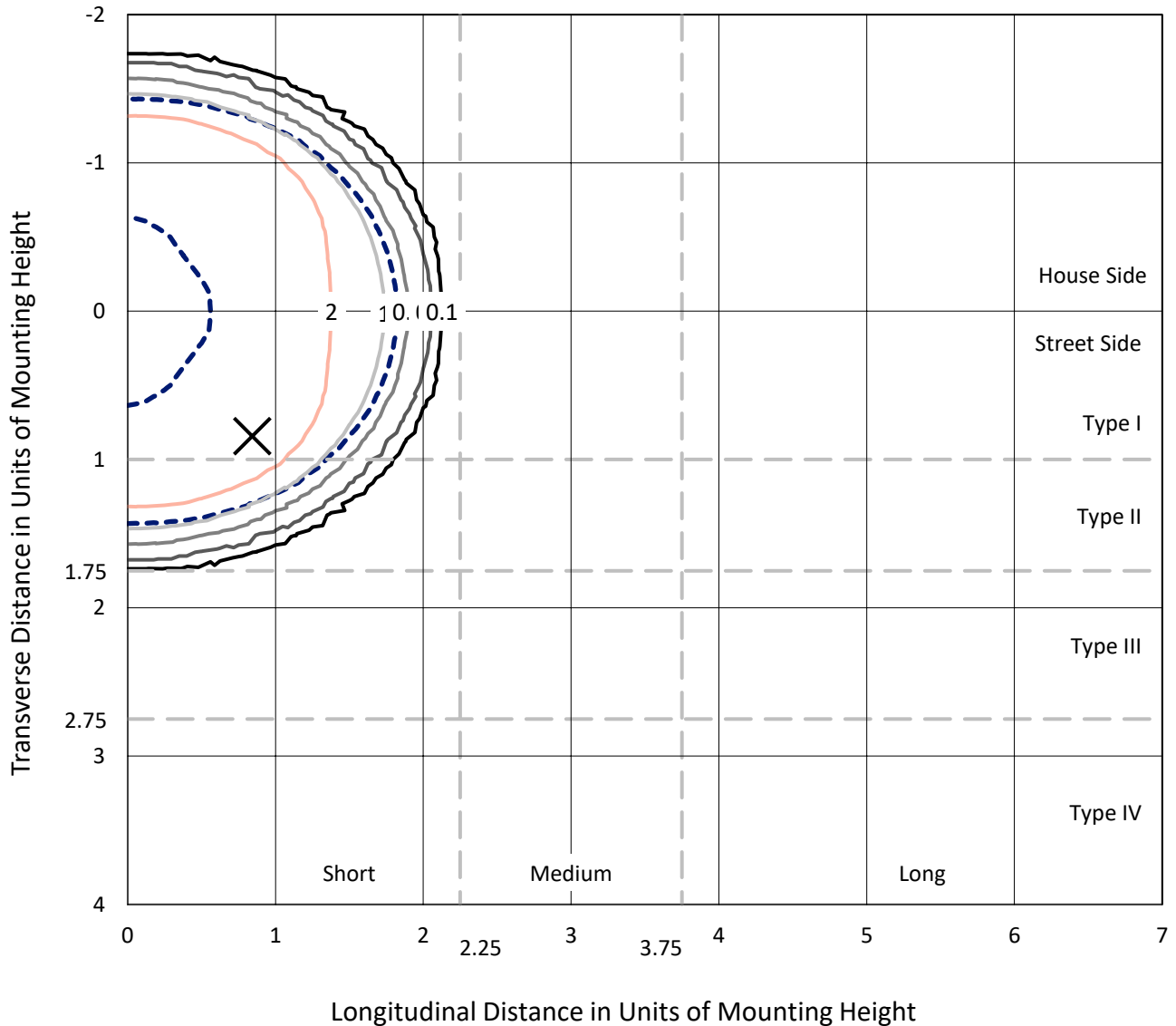
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

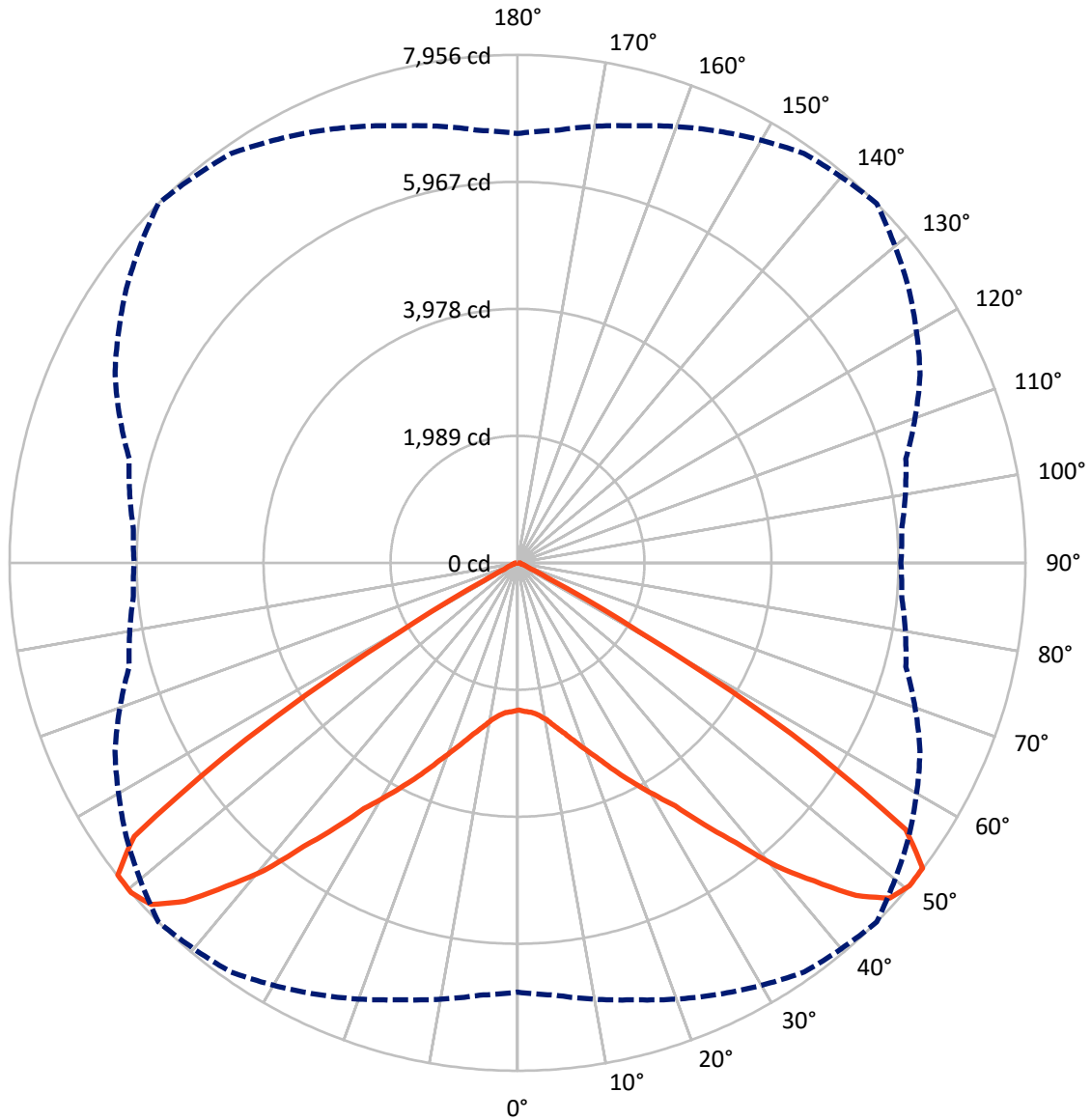
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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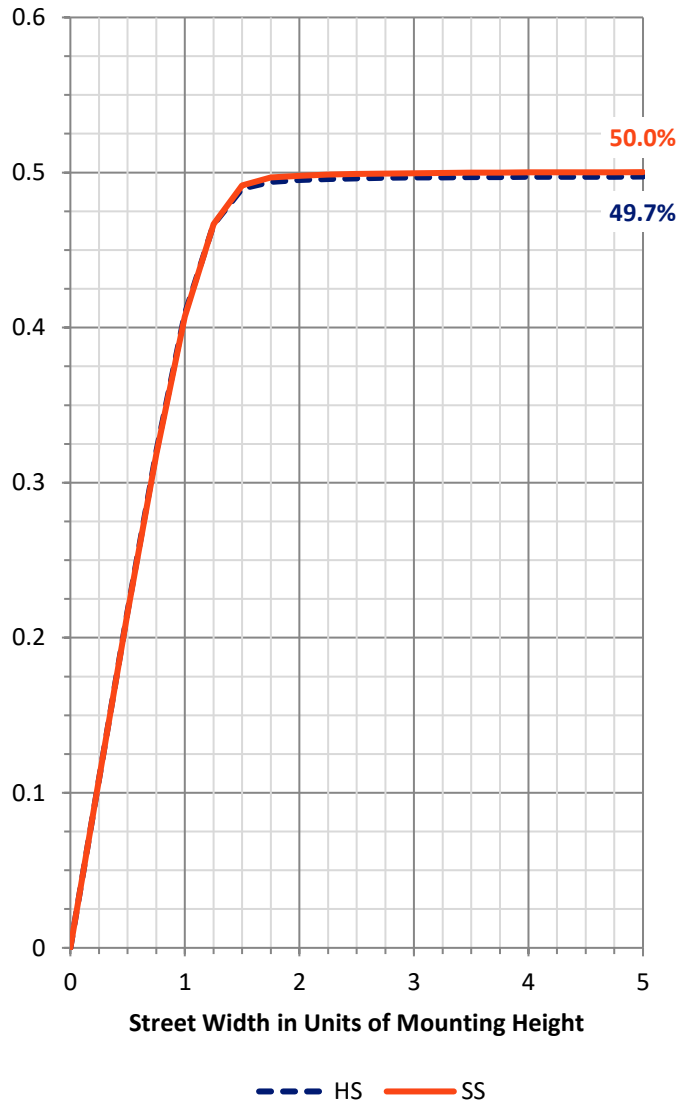
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8316.2	0.0	8316.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8316.2	0.0	8316.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	16632.5	0.0	16632.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.4	1.4
10°-20°	790.7	4.8
20°-30°	1614.8	9.7
30°-40°	3079.5	18.5
40°-50°	5189.4	31.2
50°-60°	4949.0	29.8
60°-70°	690.8	4.2
70°-80°	66.1	0.4
80°-90°	22.8	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°	16632.5	100.0
0°-180°	16632.5	100.0

Coefficient of Utilization



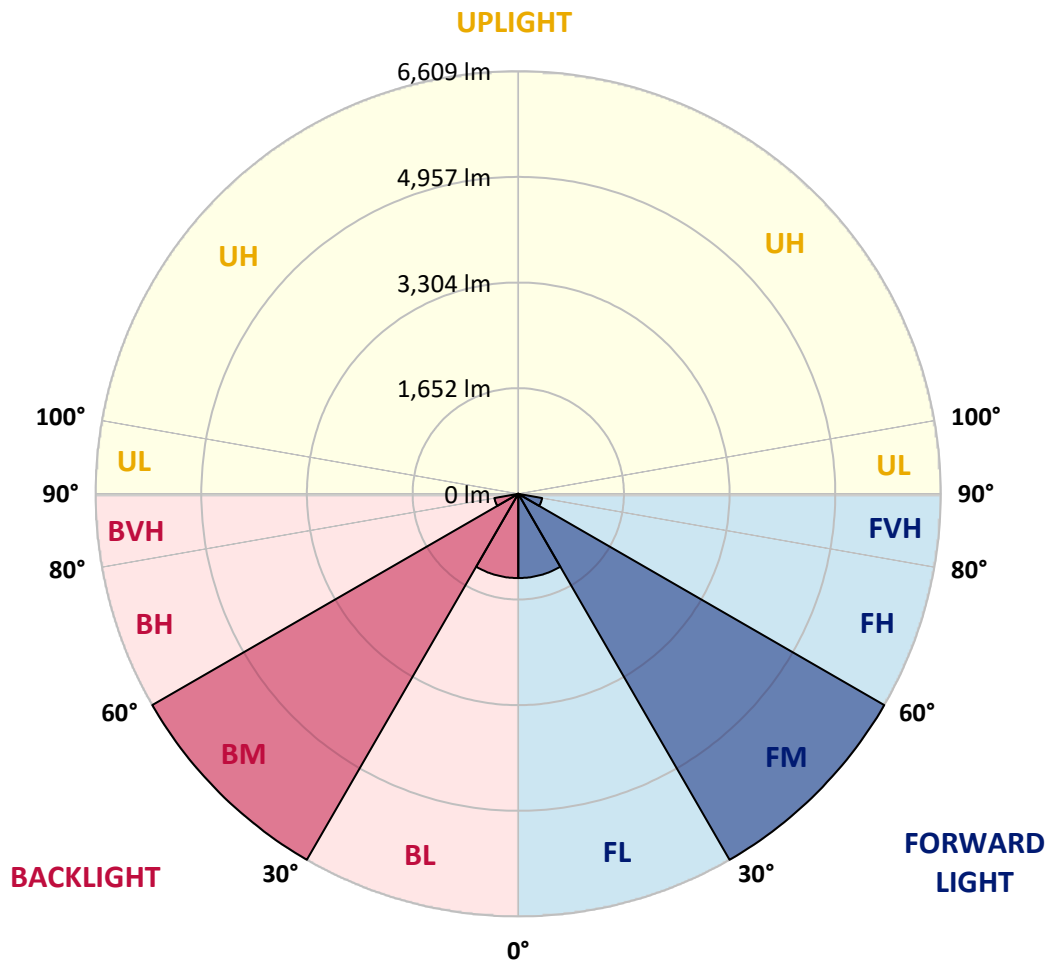
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1317.4	7.9			
FM (30°-60°)	6608.9	39.7			
FH (60°-80°)	378.5	2.3			G0/660
FVH (80°-90°)	11.4	0.1			G1/100
BL (0°-30°)	1317.4	7.9	B3/2500		
BM (30°-60°)	6608.9	39.7	B4/8500		
BH (60°-80°)	378.5	2.3	B1/500		G0/660
BVH (80°-90°)	11.4	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°	2305.9	2305.9	2305.9	2305.9	2305.9	2305.9	2305.9	2305.9	2305.9	2305.9	2305.9
2.5°	2297.5	2297.5	2294.8	2317.1	2305.9	2331.1	2328.3	2336.7	2345.0	2342.3	2364.6
5°	2277.9	2275.2	2275.2	2300.3	2325.5	2353.5	2378.7	2395.4	2423.4	2423.4	2451.4
7.5°	2297.5	2283.5	2303.1	2314.3	2361.9	2409.5	2451.4	2485.0	2549.4	2571.8	2563.4
10°	2303.1	2319.9	2333.9	2367.5	2426.2	2499.0	2535.4	2619.3	2692.1	2742.5	2753.7
12.5°	2339.5	2364.6	2403.8	2485.0	2538.1	2633.3	2683.7	2764.9	2865.6	2921.5	2960.7
15°	2409.5	2417.9	2468.3	2571.8	2686.5	2773.3	2851.6	2910.4	3008.3	3072.7	3075.5
17.5°	2499.0	2535.4	2605.3	2703.3	2823.7	2952.3	3013.9	3078.3	3114.6	3201.4	3221.0
20°	2678.1	2683.7	2750.8	2879.6	3030.7	3148.2	3193.0	3226.6	3212.6	3302.2	3318.9
22.5°	2846.0	2851.6	2935.6	3109.1	3271.4	3372.1	3391.7	3372.1	3330.1	3394.5	3400.1
25°	3016.7	3067.0	3128.6	3302.2	3503.6	3638.0	3640.8	3587.6	3500.8	3512.0	3540.0
27.5°	3282.6	3318.9	3383.3	3542.8	3763.9	3915.0	3889.8	3825.5	3713.5	3721.9	3713.5
30°	3593.2	3626.7	3680.0	3884.2	4046.6	4211.6	4248.1	4186.4	4018.6	3982.1	4024.2
32.5°	3968.2	4015.8	4113.7	4301.2	4438.3	4539.0	4564.3	4541.8	4385.1	4371.2	4399.1
35°	4424.3	4488.7	4578.2	4743.3	4855.3	5037.2	5037.2	4961.6	4818.9	4835.7	4832.9
37.5°	4905.6	5000.8	5140.7	5308.6	5459.8	5557.7	5526.9	5462.5	5319.8	5283.4	5319.8
40°	5510.1	5557.7	5734.0	5952.3	6136.9	6248.9	6117.3	5977.4	5636.0	5689.2	5787.2
42.5°	6061.4	6136.9	6271.3	6511.9	6721.9	6814.2	6657.4	6380.4	5969.1	5927.1	5999.9
45°	6531.5	6612.7	6789.0	7133.2	7354.3	7435.4	7088.5	6640.7	6170.5	6064.2	6095.0
47.5°	6845.0	6886.9	7133.2	7460.6	7662.1	7846.8	7348.7	6819.8	6265.7	6064.2	6053.0
50°	6724.6	6797.4	7085.6	7457.8	7824.4	7955.9	7480.2	6956.9	6296.5	6039.1	6005.4
52.5°	5971.9	6097.8	6419.6	6920.5	7474.6	7944.8	7662.1	6912.1	6285.3	6064.2	6114.6
55°	4155.6	4158.5	4550.2	5289.0	6268.5	7376.7	7396.3	6962.5	6358.0	6220.9	6223.7
57.5°	1670.6	1754.6	2054.1	2795.7	3699.6	5065.2	6022.2	6458.8	6366.5	6332.8	6419.6
60°	422.6	425.4	517.7	789.2	1301.3	2171.5	3153.8	4267.6	4914.0	5135.1	5165.9
62.5°	215.5	218.2	240.7	279.9	355.4	582.1	1035.4	1642.6	2336.7	2689.3	2781.6
65°	176.3	176.3	190.3	209.9	212.7	223.9	268.6	383.4	556.9	632.4	640.8
67.5°	134.3	134.3	145.5	156.7	162.3	159.5	153.9	159.5	193.1	184.7	179.1
70°	83.9	86.8	92.3	103.5	109.2	111.9	114.7	120.3	137.1	142.7	137.1
72.5°	50.4	50.4	53.2	61.6	70.0	75.5	83.9	89.6	98.0	111.9	109.2
75°	22.4	22.4	28.0	36.4	44.7	53.2	61.6	70.0	75.5	83.9	86.8
77.5°	5.6	8.4	14.0	25.1	33.6	44.7	56.0	64.3	70.0	70.0	67.2
80°	2.8	2.8	11.2	19.6	36.4	47.6	61.6	67.2	75.5	70.0	61.6
82.5°	2.8	2.8	11.2	19.6	33.6	47.6	64.3	72.7	78.4	70.0	58.8
85°	0.0	2.8	8.4	16.8	28.0	33.6	28.0	19.6	11.2	11.2	8.4
87.5°	0.0	0.0	2.8	2.8	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)