

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: P652368

Luminaire Tested: **GALN-SA5B-840-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652368
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5B-840-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14382.8 lumens
Efficiency: N/A
Efficacy: 70.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G0

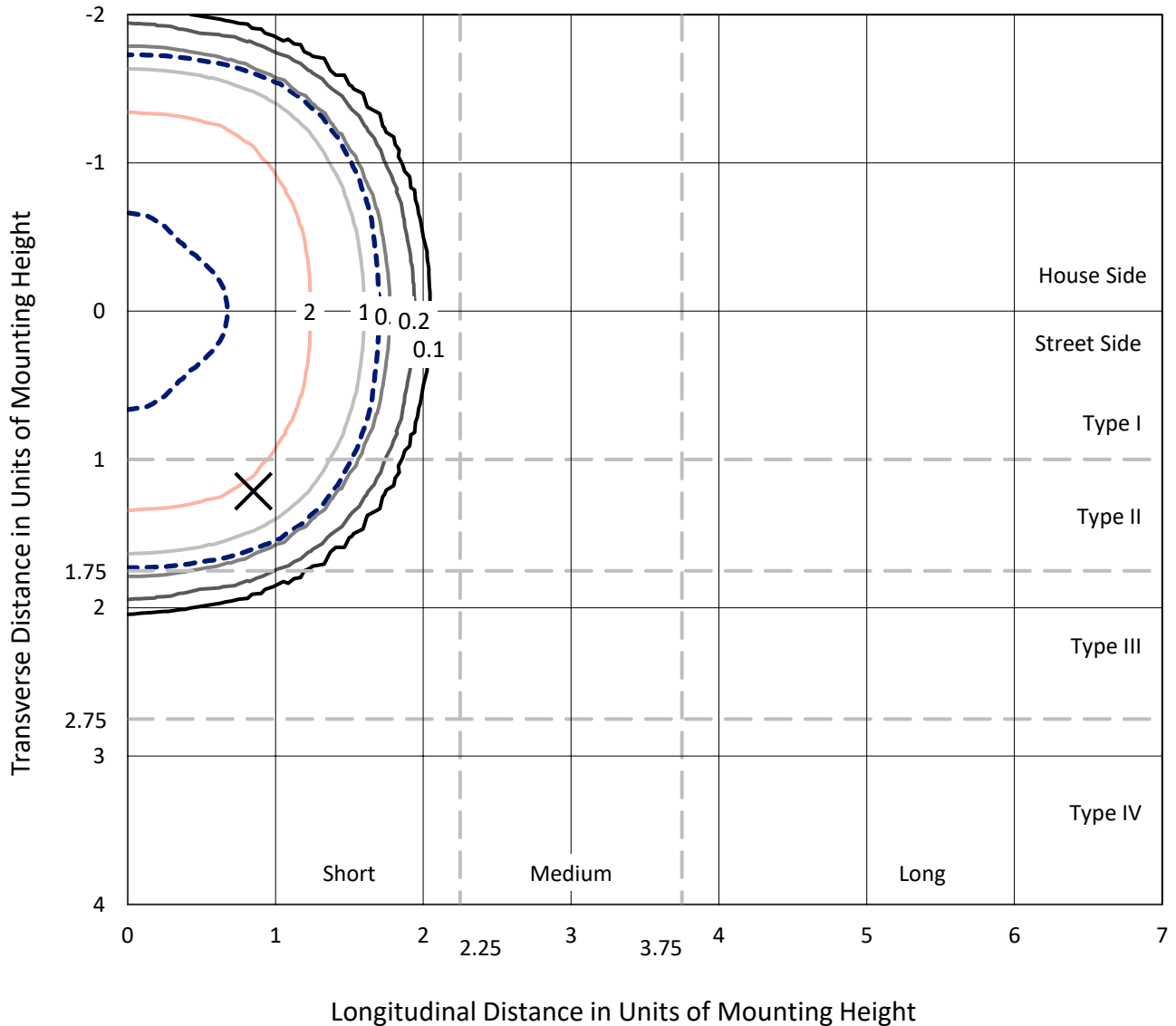
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

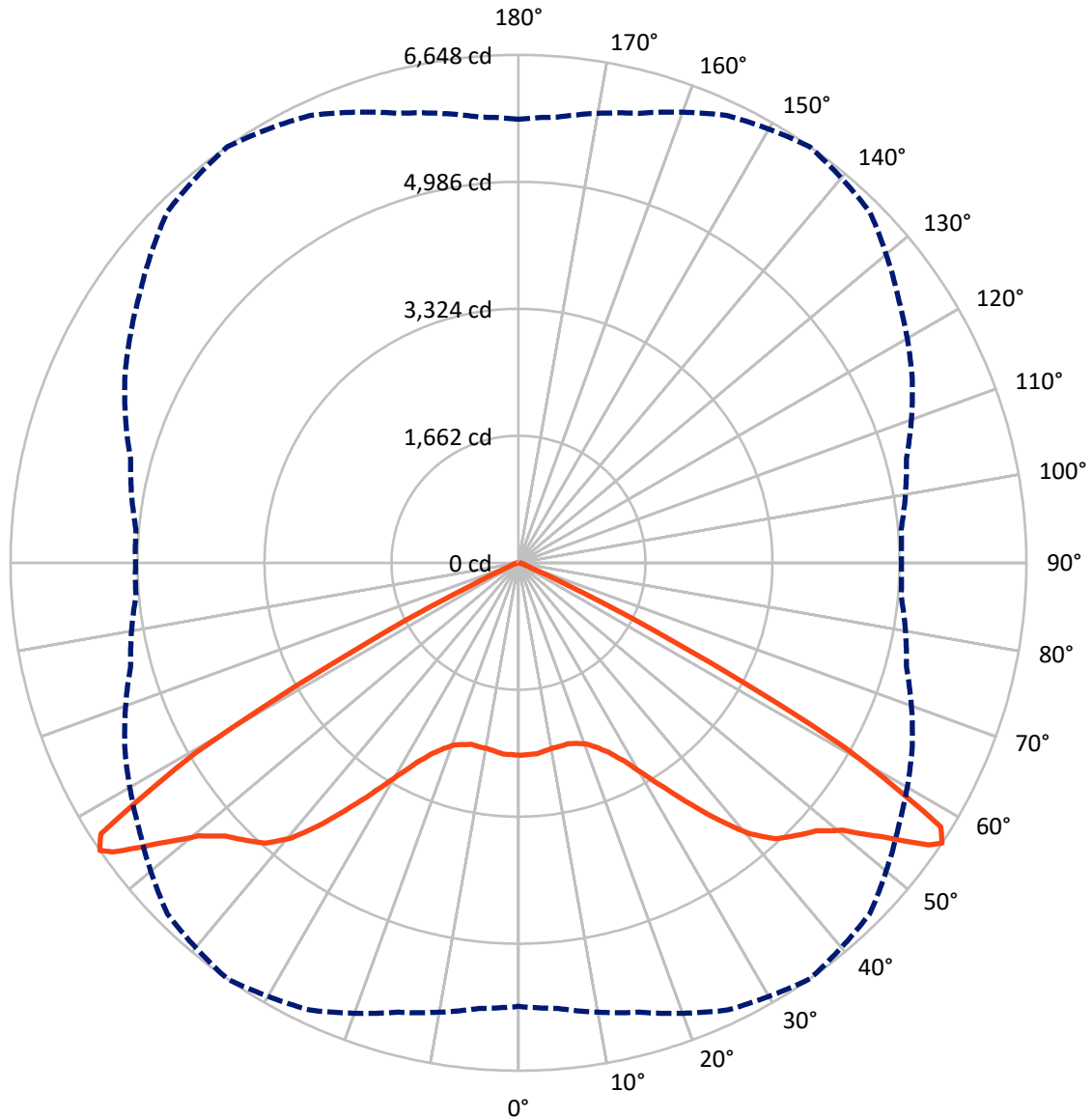
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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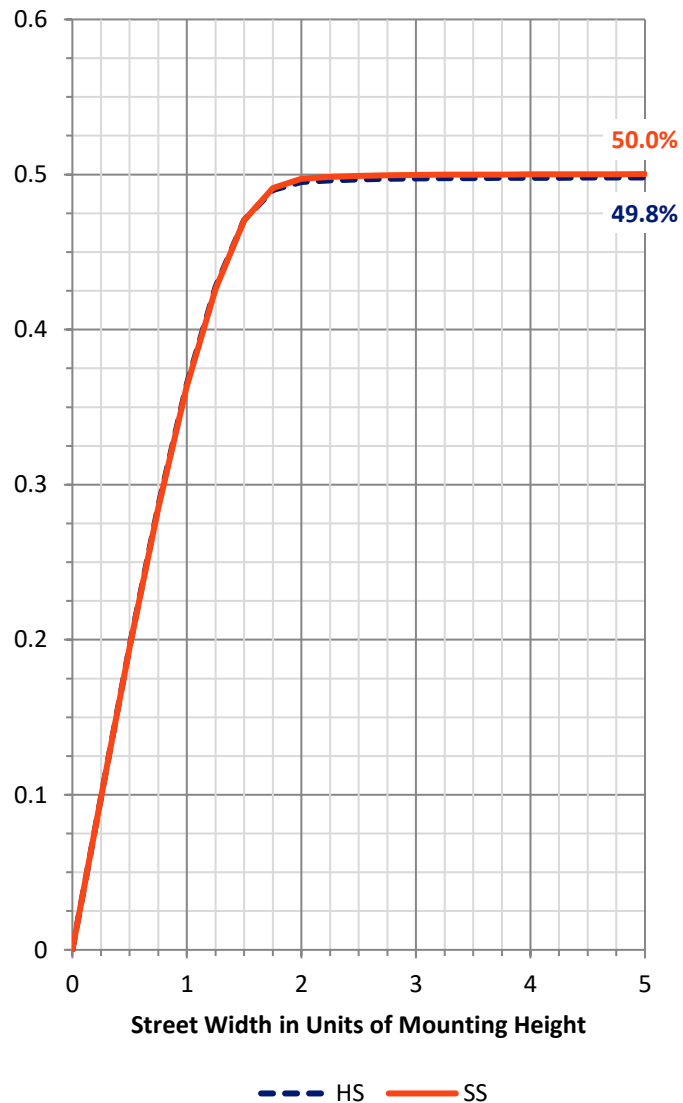
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7191.4	0.0	7191.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7191.4	0.0	7191.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	14382.8	0.0	14382.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.9	1.6
10°-20°	691.5	4.8
20°-30°	1252.2	8.7
30°-40°	2322.1	16.1
40°-50°	3811.5	26.5
50°-60°	4910.4	34.1
60°-70°	1082.2	7.5
70°-80°	62.8	0.4
80°-90°	13.2	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°	14382.8	100.0
0°-180°	14382.8	100.0

Coefficient of Utilization

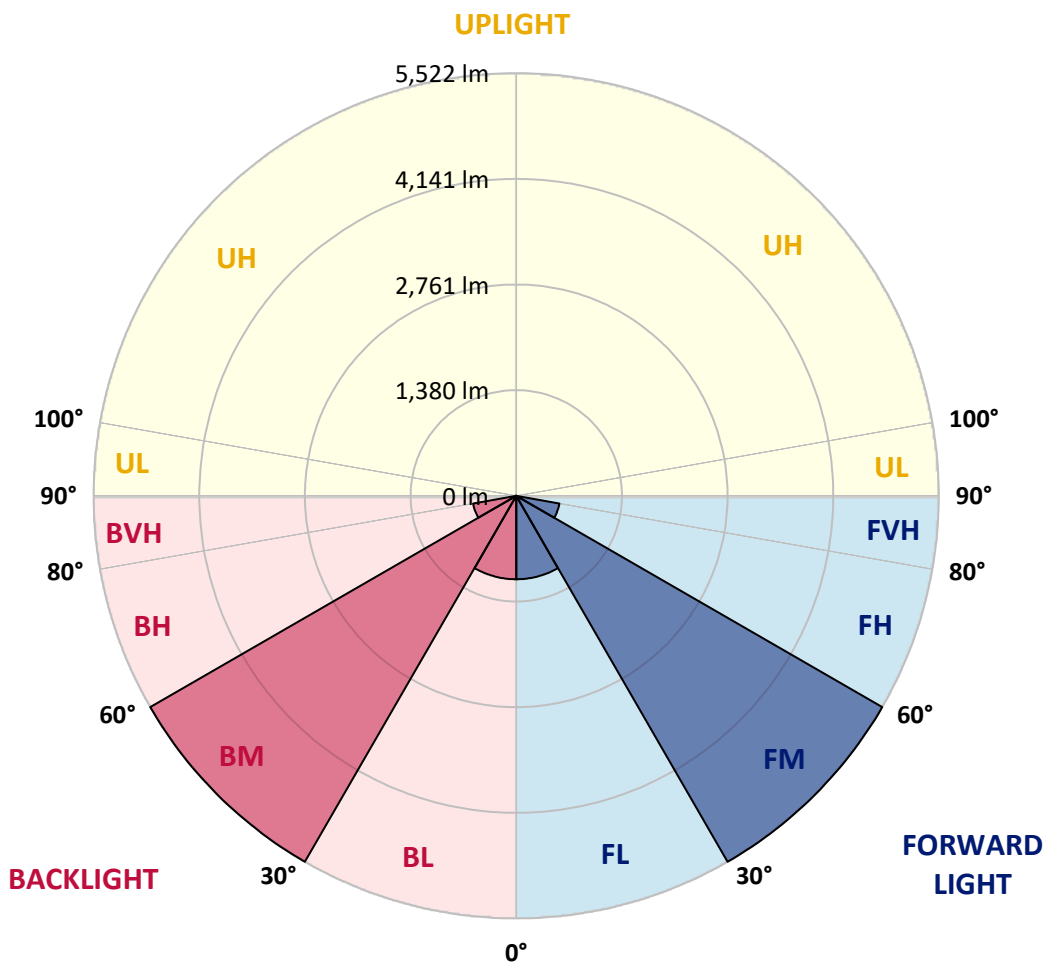


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1090.3	7.6			
FM (30°-60°)	5522.0	38.4			
FH (60°-80°)	572.5	4.0			G0/660
FVH (80°-90°)	6.6	0.0			G0/10
BL (0°-30°)	1090.3	7.6	B3/2500		
BM (30°-60°)	5522.0	38.4	B4/8500		
BH (60°-80°)	572.5	4.0	B2/1000		G0/660
BVH (80°-90°)	6.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G0
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2520.1	2520.1	2520.1	2520.1	2520.1	2520.1	2520.1	2520.1	2520.1	2520.1	2520.1
2.5°	2525.4	2525.4	2528.0	2530.6	2512.3	2504.5	2507.1	2501.9	2499.3	2507.1	2507.1
5°	2517.5	2517.5	2509.7	2512.3	2512.3	2488.9	2488.9	2494.1	2494.1	2478.5	2473.3
7.5°	2496.7	2491.5	2481.1	2494.1	2486.3	2486.3	2468.1	2455.0	2449.8	2460.3	2449.8
10°	2452.4	2455.0	2465.5	2470.7	2465.5	2481.1	2449.8	2431.6	2413.3	2405.5	2405.5
12.5°	2431.6	2447.2	2431.6	2444.6	2462.9	2449.8	2431.6	2418.5	2392.5	2382.0	2382.0
15°	2429.0	2439.4	2444.6	2462.9	2455.0	2460.3	2423.8	2408.1	2369.0	2350.8	2342.9
17.5°	2426.4	2439.4	2447.2	2481.1	2486.3	2488.9	2460.3	2413.3	2379.4	2361.2	2342.9
20°	2455.0	2460.3	2475.9	2509.7	2530.6	2567.1	2514.9	2465.5	2392.5	2371.6	2363.8
22.5°	2491.5	2517.5	2533.2	2569.7	2624.4	2655.7	2587.9	2525.4	2449.8	2423.8	2392.5
25°	2608.8	2603.6	2629.6	2705.2	2749.5	2772.9	2718.3	2627.0	2528.0	2496.7	2501.9
27.5°	2754.7	2759.9	2783.4	2866.8	2932.0	2968.4	2903.3	2783.4	2687.0	2634.9	2629.6
30°	2945.0	2939.8	2965.9	3077.9	3195.2	3249.9	3135.2	2994.5	2900.7	2832.9	2848.6
32.5°	3145.7	3148.3	3221.2	3322.9	3513.1	3620.0	3435.0	3262.9	3122.2	3075.3	3051.8
35°	3442.7	3455.8	3513.1	3669.5	3880.6	4018.7	3815.4	3609.6	3447.9	3362.0	3372.4
37.5°	3810.2	3797.2	3893.7	4063.0	4284.6	4386.2	4214.2	3979.6	3815.4	3758.1	3794.6
40°	4201.1	4214.2	4263.7	4417.4	4665.0	4732.8	4477.4	4349.7	4206.3	4177.7	4222.0
42.5°	4592.1	4584.3	4620.8	4758.9	4938.7	4891.8	4740.6	4665.0	4563.4	4506.1	4566.0
45°	4878.7	4865.7	4933.5	5027.3	5092.5	5003.9	4936.1	4910.0	4858.0	4795.4	4850.1
47.5°	5157.6	5147.2	5212.3	5238.4	5243.6	5126.3	5139.4	5186.3	5056.0	4925.7	4988.2
50°	5394.8	5376.5	5457.3	5514.7	5501.7	5314.0	5360.9	5314.0	5110.7	4956.9	4933.5
52.5°	5791.0	5798.8	5884.7	5989.0	5957.7	5801.4	5733.6	5519.9	5259.3	5121.1	5040.4
55°	6041.2	6002.0	6150.6	6481.6	6518.1	6356.4	6056.7	5741.4	5350.4	5181.1	5160.2
56°	5806.6	5856.1	6090.6	6460.7	6648.4	6499.8	6064.5	5686.7	5256.7	5027.3	5011.7
57.5°	5209.7	5183.7	5501.7	6007.3	6518.1	6455.5	5850.8	5295.8	4795.4	4537.4	4506.1
60°	3242.1	3317.7	3596.5	4222.0	4904.8	4936.1	4336.7	3859.8	3275.9	3046.6	3101.4
62.5°	1269.2	1204.1	1378.7	1845.2	2314.3	2418.5	2191.8	1821.7	1496.0	1269.2	1253.6
65°	294.5	286.7	323.2	445.6	622.8	721.9	685.4	492.6	362.2	344.1	318.0
67.5°	166.8	166.8	158.9	158.9	174.6	185.0	177.2	174.6	182.4	190.2	187.6
70°	117.3	114.7	109.5	112.1	106.9	106.9	114.7	127.7	138.1	138.1	140.7
72.5°	70.4	70.4	70.4	78.2	78.2	78.2	86.0	96.5	99.1	96.5	93.9
75°	31.3	31.3	36.5	44.3	49.5	52.1	60.0	65.2	70.4	65.2	60.0
77.5°	7.8	7.8	13.0	18.2	23.5	28.7	39.1	46.9	49.5	46.9	39.1
80°	2.6	2.6	5.2	13.0	23.5	28.7	39.1	41.7	44.3	39.1	31.3
82.5°	2.6	2.6	5.2	13.0	18.2	23.5	31.3	36.5	39.1	33.9	31.3
85°	0.0	2.6	5.2	10.4	15.6	20.9	20.9	15.6	13.0	7.8	10.4
87.5°	0.0	0.0	2.6	2.6	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)