

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: P651391

Luminaire Tested: **GALN-SA5D-840-U-RW-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651391  
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-SA5D-840-U-RW-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 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: 21055.3 lumens  
Efficiency: N/A  
Efficacy: 68.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1

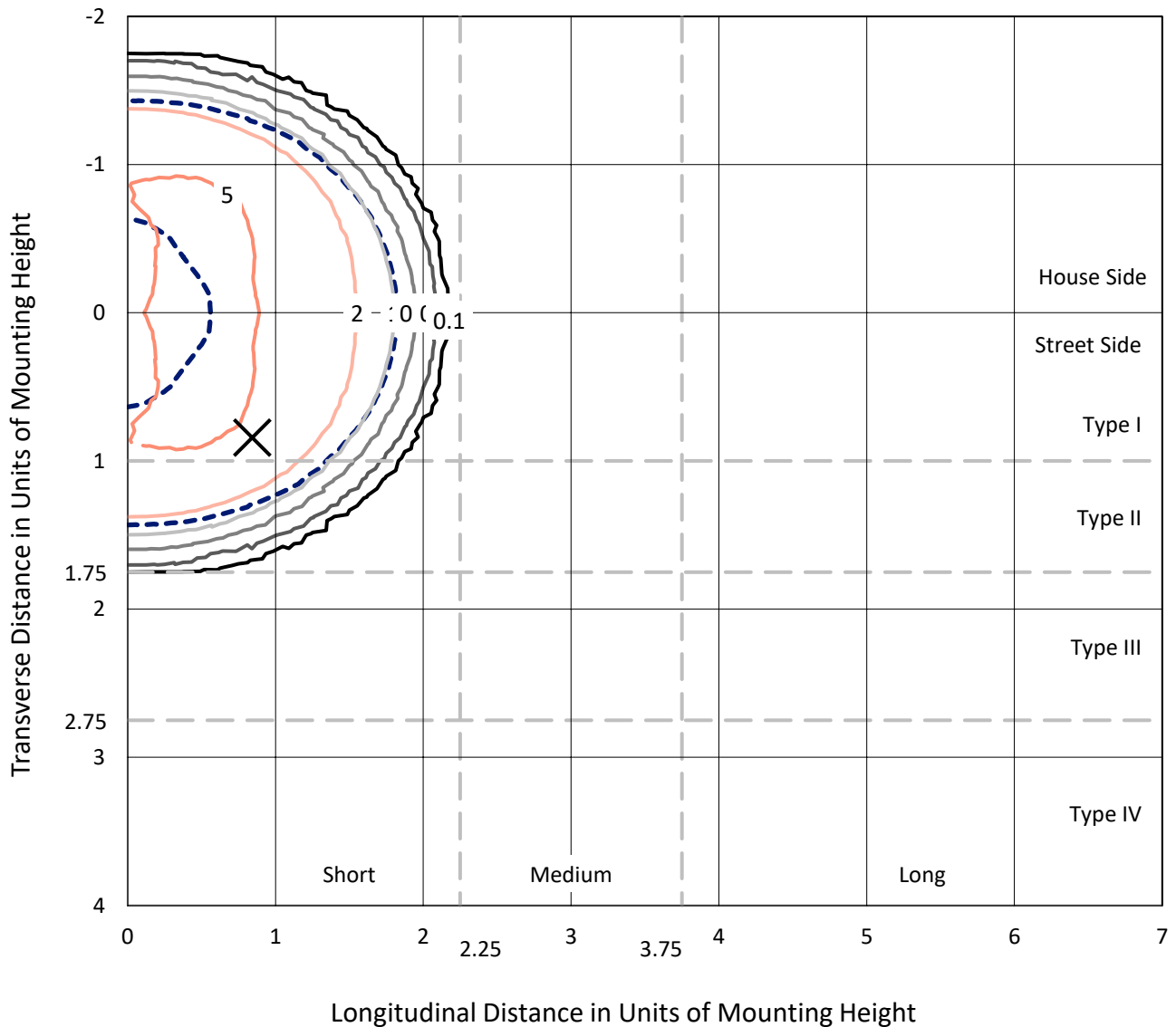
Input Watts (W): 309  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

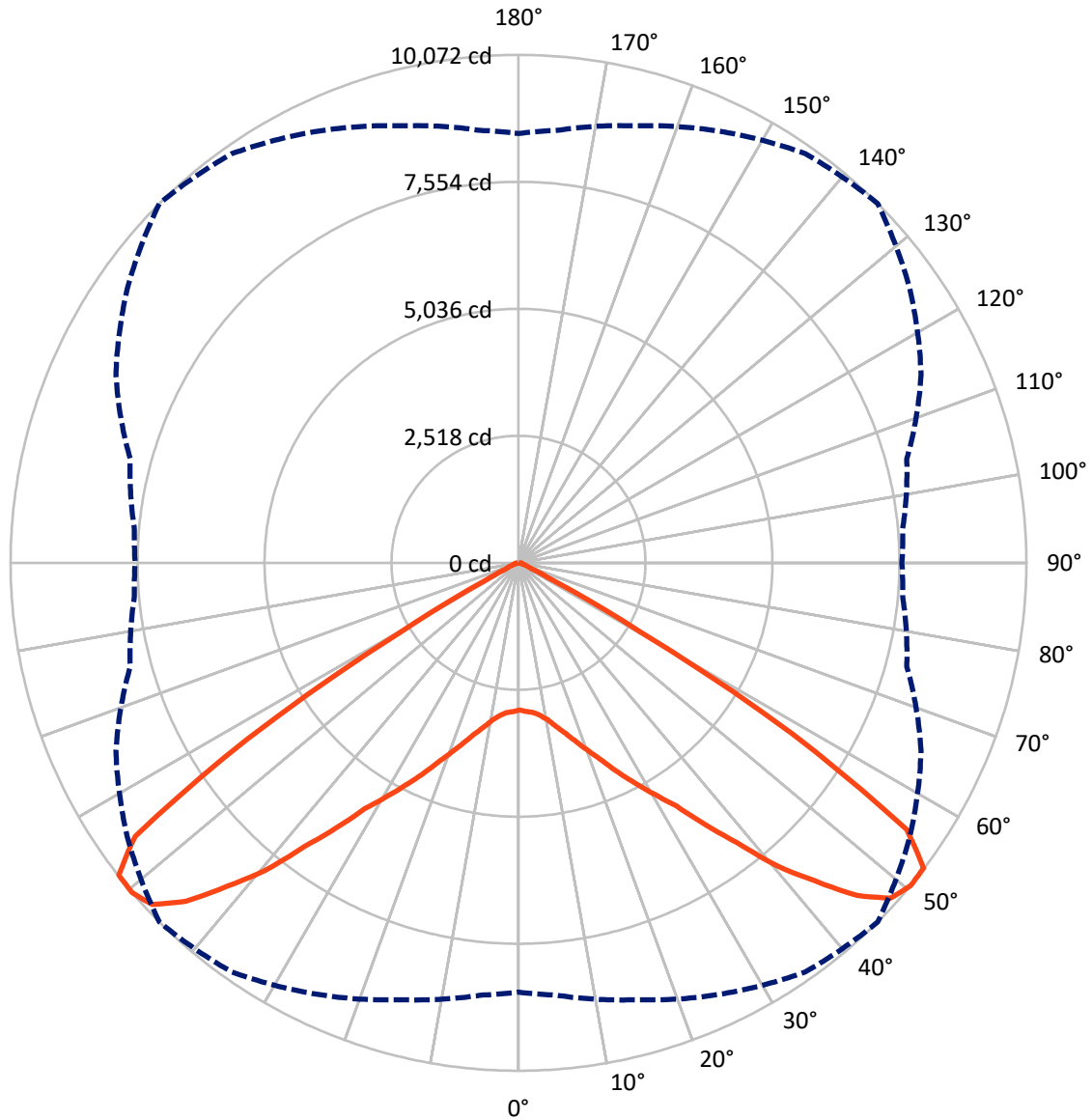
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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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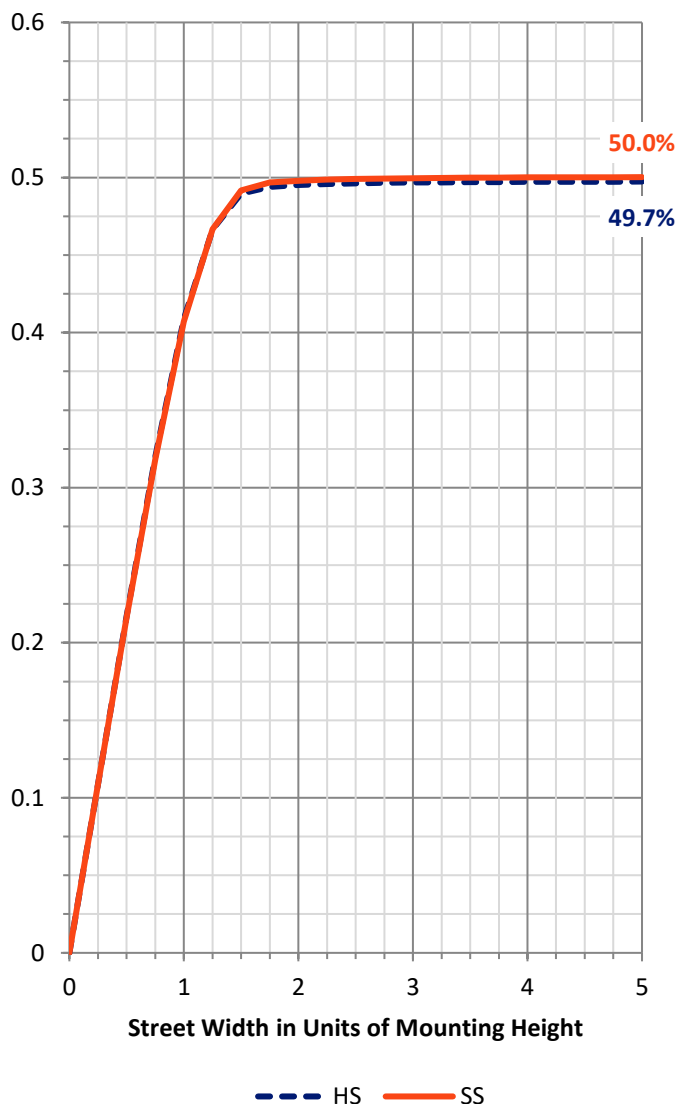
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10527.6	0.0	10527.6
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	10527.6	0.0	10527.6
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	21055.3	0.0	21055.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	290.4	1.4
10°-20°	1000.9	4.8
20°-30°	2044.2	9.7
30°-40°	3898.4	18.5
40°-50°	6569.3	31.2
50°-60°	6265.0	29.8
60°-70°	874.6	4.2
70°-80°	83.6	0.4
80°-90°	28.9	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°	21055.3	100.0
0°-180°	21055.3	100.0

**Coefficient of Utilization**



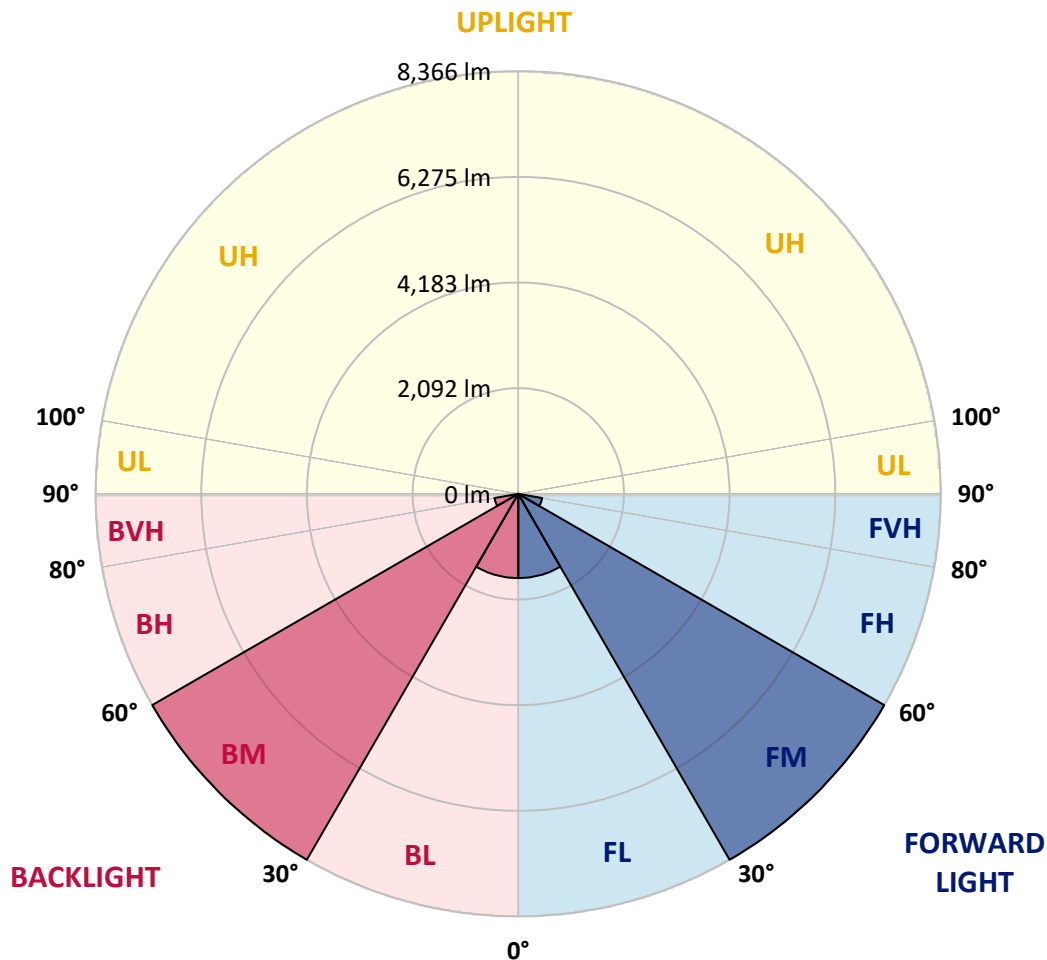
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1667.8	7.9			
FM (30°-60°)	8366.3	39.7			
FH (60°-80°)	479.1	2.3			G0/660
FVH (80°-90°)	14.4	0.1			G1/100
BL (0°-30°)	1667.8	7.9	B3/2500		
BM (30°-60°)	8366.3	39.7	B4/8500		
BH (60°-80°)	479.1	2.3	B1/500		G0/660
BVH (80°-90°)	14.4	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°	2919.1	2919.1	2919.1	2919.1	2919.1	2919.1	2919.1	2919.1	2919.1	2919.1	2919.1
2.5°	2908.4	2908.4	2904.9	2933.2	2919.1	2951.0	2947.5	2958.0	2968.6	2965.1	2993.5
5°	2883.6	2880.1	2880.1	2912.0	2943.9	2979.3	3011.2	3032.5	3067.9	3067.9	3103.3
7.5°	2908.4	2890.8	2915.6	2929.7	2989.9	3050.1	3103.3	3145.8	3227.3	3255.6	3245.0
10°	2915.6	2936.8	2954.5	2997.0	3071.4	3163.5	3209.6	3315.8	3408.0	3471.7	3485.9
12.5°	2961.6	2993.5	3043.1	3145.8	3213.1	3333.6	3397.3	3500.1	3627.6	3698.5	3748.1
15°	3050.1	3060.8	3124.6	3255.6	3400.8	3510.7	3609.9	3684.3	3808.3	3889.7	3893.3
17.5°	3163.5	3209.6	3298.1	3422.1	3574.4	3737.4	3815.4	3896.9	3942.9	4052.7	4077.5
20°	3390.2	3397.3	3482.3	3645.3	3836.6	3985.4	4042.1	4084.6	4066.9	4180.3	4201.5
22.5°	3602.8	3609.9	3716.1	3935.8	4141.3	4268.8	4293.6	4268.8	4215.7	4297.2	4304.2
25°	3818.9	3882.6	3960.6	4180.3	4435.3	4605.3	4608.9	4541.6	4431.7	4445.9	4481.4
27.5°	4155.5	4201.5	4283.0	4484.9	4764.8	4956.1	4924.1	4842.7	4701.0	4711.6	4701.0
30°	4548.6	4591.2	4658.5	4917.1	5122.5	5331.6	5377.6	5299.7	5087.1	5041.1	5094.2
32.5°	5023.4	5083.6	5207.6	5445.0	5618.6	5746.0	5777.9	5749.6	5551.2	5533.5	5568.9
35°	5600.8	5682.3	5795.7	6004.7	6146.4	6376.6	6376.6	6281.0	6100.3	6121.6	6118.0
37.5°	6210.1	6330.5	6507.7	6720.3	6911.6	7035.6	6996.6	6915.1	6734.5	6688.4	6734.5
40°	6975.3	7035.6	7258.8	7535.0	7768.9	7910.5	7744.1	7567.0	7134.7	7202.1	7326.0
42.5°	7673.2	7768.9	7938.9	8243.6	8509.2	8626.1	8427.8	8077.0	7556.3	7503.1	7595.3
45°	8268.4	8371.1	8594.3	9030.0	9309.9	9412.6	8973.4	8406.6	7811.4	7676.7	7715.8
47.5°	8665.2	8718.3	9030.0	9444.5	9699.6	9933.4	9302.8	8633.3	7931.8	7676.7	7662.6
50°	8512.8	8604.9	8969.8	9441.0	9905.0	10071.6	9469.3	8806.9	7970.8	7644.9	7602.4
52.5°	7559.8	7719.3	8126.7	8760.8	9462.3	10057.4	9699.6	8750.2	7956.6	7676.7	7740.6
55°	5260.7	5264.2	5760.3	6695.5	7935.3	9338.2	9363.0	8813.9	8048.7	7875.1	7878.7
57.5°	2114.9	2221.2	2600.3	3539.0	4683.3	6412.0	7623.6	8176.3	8059.4	8016.8	8126.7
60°	535.0	538.5	655.4	999.0	1647.3	2749.1	3992.5	5402.4	6220.8	6500.6	6539.6
62.5°	272.7	276.4	304.7	354.2	449.9	736.9	1310.8	2079.5	2958.0	3404.5	3521.4
65°	223.2	223.2	240.9	265.7	269.2	283.4	340.1	485.3	705.0	800.6	811.2
67.5°	170.1	170.1	184.2	198.4	205.5	201.9	194.9	201.9	244.5	233.8	226.7
70°	106.3	109.8	116.9	131.1	138.2	141.7	145.2	152.3	173.6	180.6	173.6
72.5°	63.7	63.7	67.3	78.0	88.6	95.6	106.3	113.4	124.0	141.7	138.2
75°	28.3	28.3	35.4	46.1	56.7	67.3	78.0	88.6	95.6	106.3	109.8
77.5°	7.1	10.6	17.7	31.9	42.5	56.7	70.8	81.5	88.6	88.6	85.0
80°	3.5	3.5	14.1	24.8	46.1	60.2	78.0	85.0	95.6	88.6	78.0
82.5°	3.5	3.5	14.1	24.8	42.5	60.2	81.5	92.1	99.2	88.6	74.4
85°	0.0	3.5	10.6	21.3	35.4	42.5	35.4	24.8	14.1	14.1	10.6
87.5°	0.0	0.0	3.5	3.5	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)