

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: P651378

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

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651378  
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-SA5D-840-U-5MQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 4000K, 1200mA 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: 19553.2 lumens  
Efficiency: N/A  
Efficacy: 63.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1

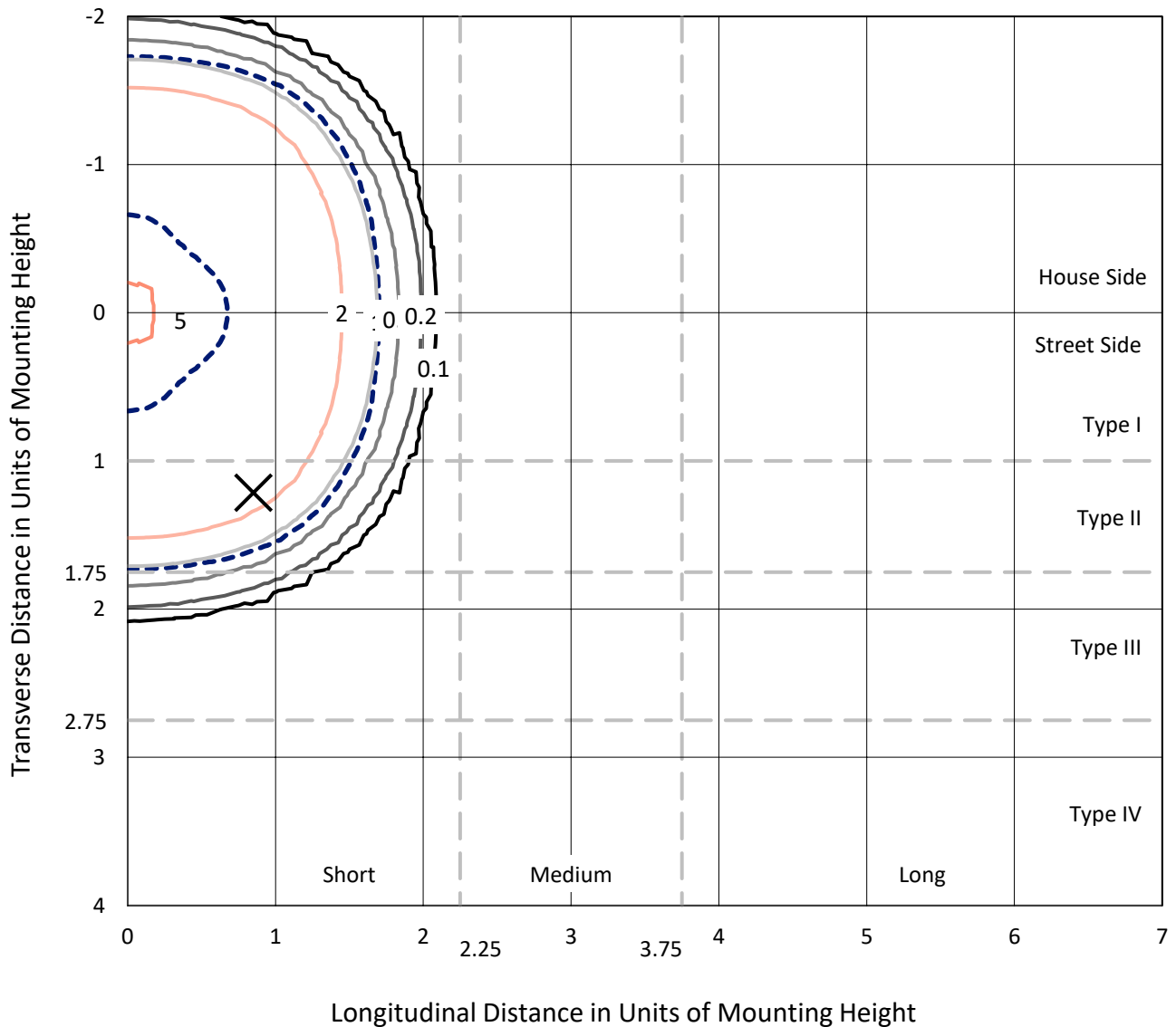
Input Watts (W): 309  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

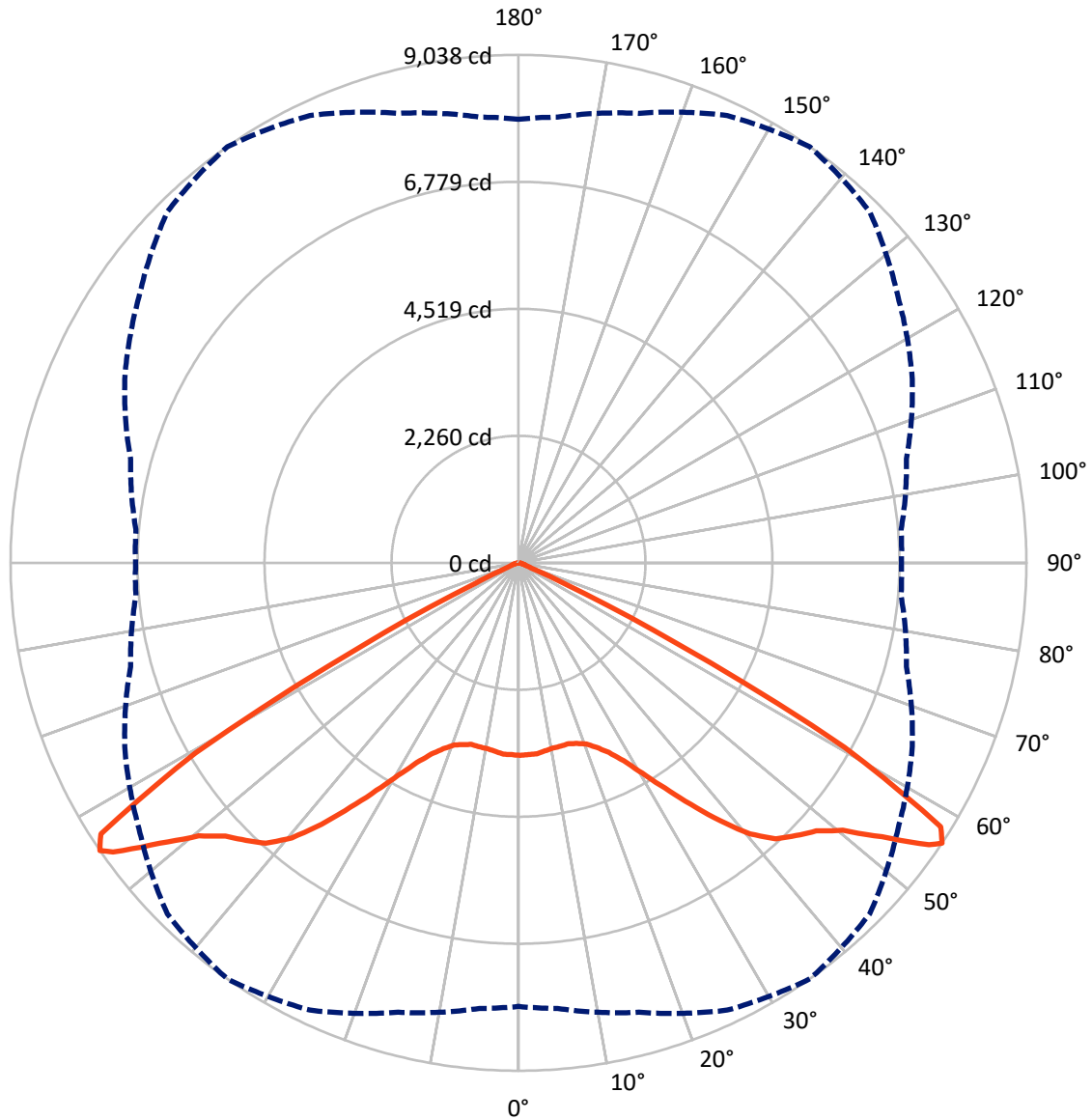
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 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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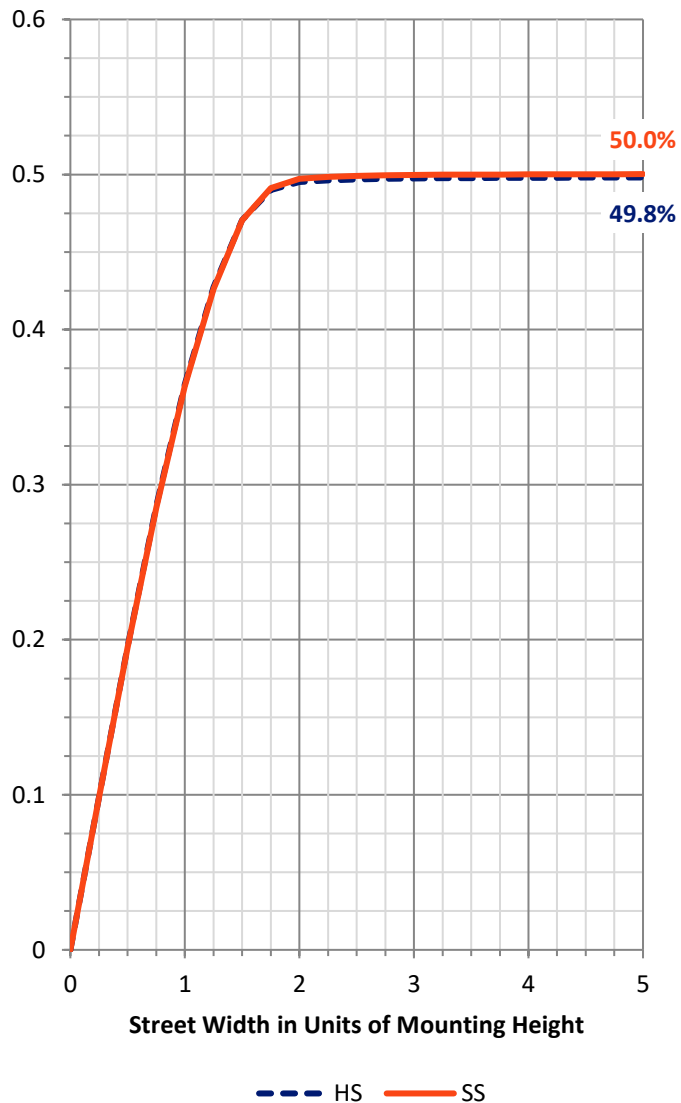
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9776.6	0.0	9776.6
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	9776.6	0.0	9776.6
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	19553.2	0.0	19553.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	322.0	1.6
10°-20°	940.1	4.8
20°-30°	1702.4	8.7
30°-40°	3156.8	16.1
40°-50°	5181.7	26.5
50°-60°	6675.6	34.1
60°-70°	1471.2	7.5
70°-80°	85.4	0.4
80°-90°	18.0	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°	19553.2	100.0
0°-180°	19553.2	100.0

**Coefficient of Utilization**



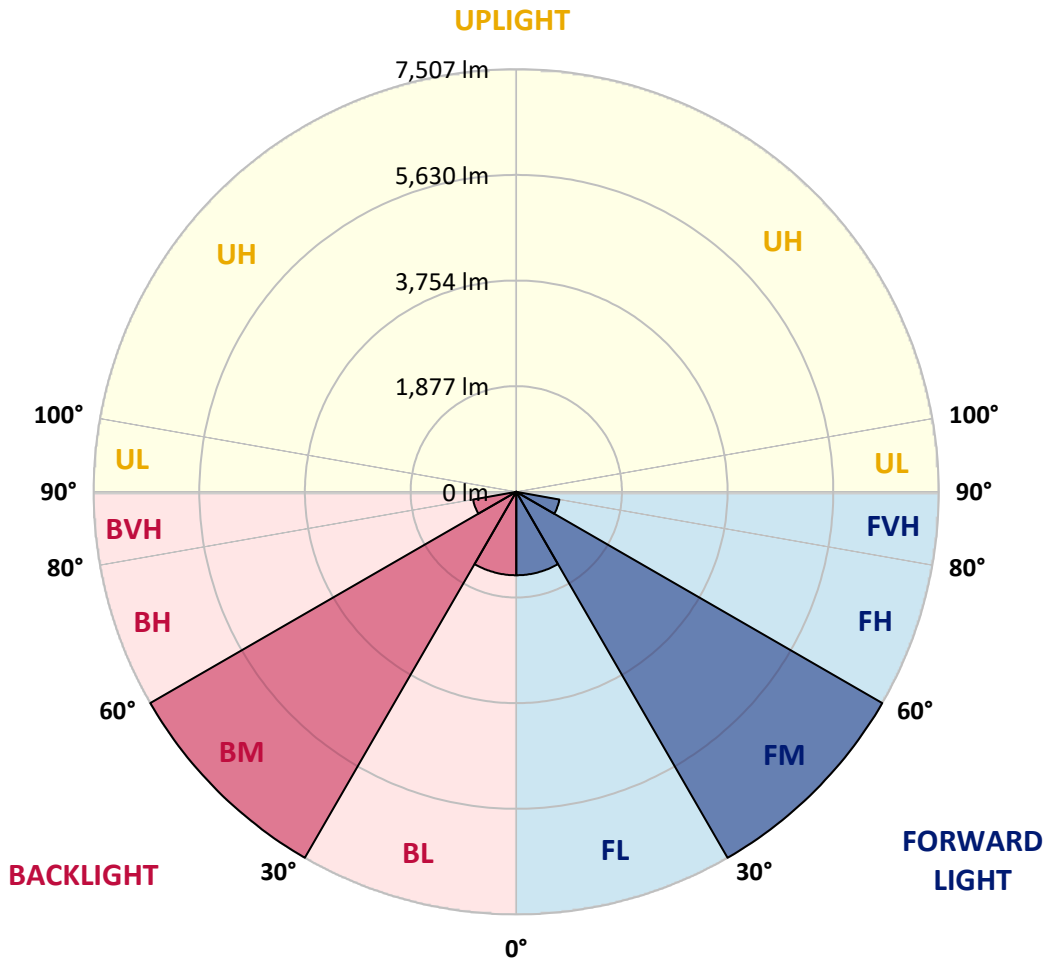
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1482.2	7.6			
FM (30°-60°)	7507.1	38.4			
FH (60°-80°)	778.3	4.0			G1/1800
FVH (80°-90°)	9.0	0.0			G0/10
BL (0°-30°)	1482.2	7.6	B3/2500		
BM (30°-60°)	7507.1	38.4	B4/8500		
BH (60°-80°)	778.3	4.0	B2/1000		G1/1800
BVH (80°-90°)	9.0	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-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3426.1	3426.1	3426.1	3426.1	3426.1	3426.1	3426.1	3426.1	3426.1	3426.1	3426.1
2.5°	3433.2	3433.2	3436.7	3440.4	3415.6	3404.9	3408.4	3401.3	3397.8	3408.4	3408.4
5°	3422.6	3422.6	3411.9	3415.6	3415.6	3383.6	3383.6	3390.7	3390.7	3369.5	3362.4
7.5°	3394.3	3387.2	3373.0	3390.7	3380.1	3380.1	3355.3	3337.6	3330.5	3344.7	3330.5
10°	3334.1	3337.6	3351.7	3358.9	3351.7	3373.0	3330.5	3305.7	3280.9	3270.2	3270.2
12.5°	3305.7	3326.9	3305.7	3323.4	3348.2	3330.5	3305.7	3288.0	3252.6	3238.4	3238.4
15°	3302.1	3316.3	3323.4	3348.2	3337.6	3344.7	3295.0	3273.8	3220.7	3195.9	3185.2
17.5°	3298.6	3316.3	3326.9	3373.0	3380.1	3383.6	3344.7	3280.9	3234.8	3210.0	3185.2
20°	3337.6	3344.7	3365.9	3411.9	3440.4	3489.9	3419.1	3351.7	3252.6	3224.2	3213.5
22.5°	3387.2	3422.6	3443.9	3493.4	3567.9	3610.4	3518.2	3433.2	3330.5	3295.0	3252.6
25°	3546.6	3539.5	3574.9	3677.7	3737.9	3769.9	3695.4	3571.4	3436.7	3394.3	3401.3
27.5°	3745.1	3752.1	3784.0	3897.4	3985.9	4035.5	3947.0	3784.0	3652.9	3582.1	3574.9
30°	4003.7	3996.6	4032.0	4184.4	4343.8	4418.2	4262.4	4071.0	3943.4	3851.4	3872.6
32.5°	4276.5	4280.0	4379.3	4517.4	4776.0	4921.4	4669.7	4435.9	4244.6	4180.9	4148.9
35°	4680.4	4698.1	4776.0	4988.6	5275.6	5463.4	5187.0	4907.2	4687.5	4570.6	4584.7
37.5°	5180.0	5162.2	5293.3	5523.7	5824.9	5963.0	5729.1	5410.2	5187.0	5109.1	5158.7
40°	5711.4	5729.1	5796.4	6005.5	6342.1	6434.2	6087.0	5913.4	5718.5	5679.5	5739.7
42.5°	6242.9	6232.2	6281.8	6469.6	6714.1	6650.4	6444.8	6342.1	6203.9	6126.0	6207.4
45°	6632.6	6614.9	6707.1	6834.6	6923.2	6802.7	6710.6	6675.2	6604.3	6519.3	6593.7
47.5°	7011.8	6997.5	7086.2	7121.6	7128.7	6969.2	6986.9	7050.7	6873.6	6696.4	6781.4
50°	7334.2	7309.4	7419.2	7497.2	7479.4	7224.4	7288.1	7224.4	6947.9	6738.9	6707.1
52.5°	7872.7	7883.4	8000.3	8142.0	8099.5	7886.9	7794.7	7504.2	7149.9	6962.1	6852.3
55°	8212.9	8159.7	8361.6	8811.6	8861.2	8641.5	8234.1	7805.4	7273.9	7043.6	7015.3
56°	7894.0	7961.2	8280.1	8783.2	9038.4	8836.4	8244.7	7731.0	7146.4	6834.6	6813.4
57.5°	7082.6	7047.2	7479.4	8166.8	8861.2	8776.2	7954.2	7199.5	6519.3	6168.5	6126.0
60°	4407.6	4510.4	4889.4	5739.7	6668.0	6710.6	5895.7	5247.3	4453.6	4141.8	4216.3
62.5°	1725.5	1636.9	1874.3	2508.5	3146.3	3288.0	2979.7	2476.6	2033.7	1725.5	1704.2
65°	400.4	389.7	439.3	605.9	846.8	981.4	931.8	669.6	492.5	467.7	432.3
67.5°	226.7	226.7	216.1	216.1	237.4	251.5	240.9	237.4	248.0	258.6	255.1
70°	159.5	155.9	148.8	152.4	145.2	145.2	155.9	173.6	187.8	187.8	191.3
72.5°	95.6	95.6	95.6	106.3	106.3	106.3	116.9	131.1	134.6	131.1	127.6
75°	42.6	42.6	49.6	60.2	67.3	70.9	81.5	88.6	95.6	88.6	81.5
77.5°	10.6	10.6	17.7	24.8	31.9	38.9	53.2	63.7	67.3	63.7	53.2
80°	3.5	3.5	7.1	17.7	31.9	38.9	53.2	56.7	60.2	53.2	42.6
82.5°	3.5	3.5	7.1	17.7	24.8	31.9	42.6	49.6	53.2	46.1	42.6
85°	0.0	3.5	7.1	14.2	21.3	28.3	28.3	21.3	17.7	10.6	14.2
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)