

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: P651327

Luminaire Tested: **GALN-SA4D-840-U-5NQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651327  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)  
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-5NQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23182.2 lumens  
Efficiency: N/A  
Efficacy: 94.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

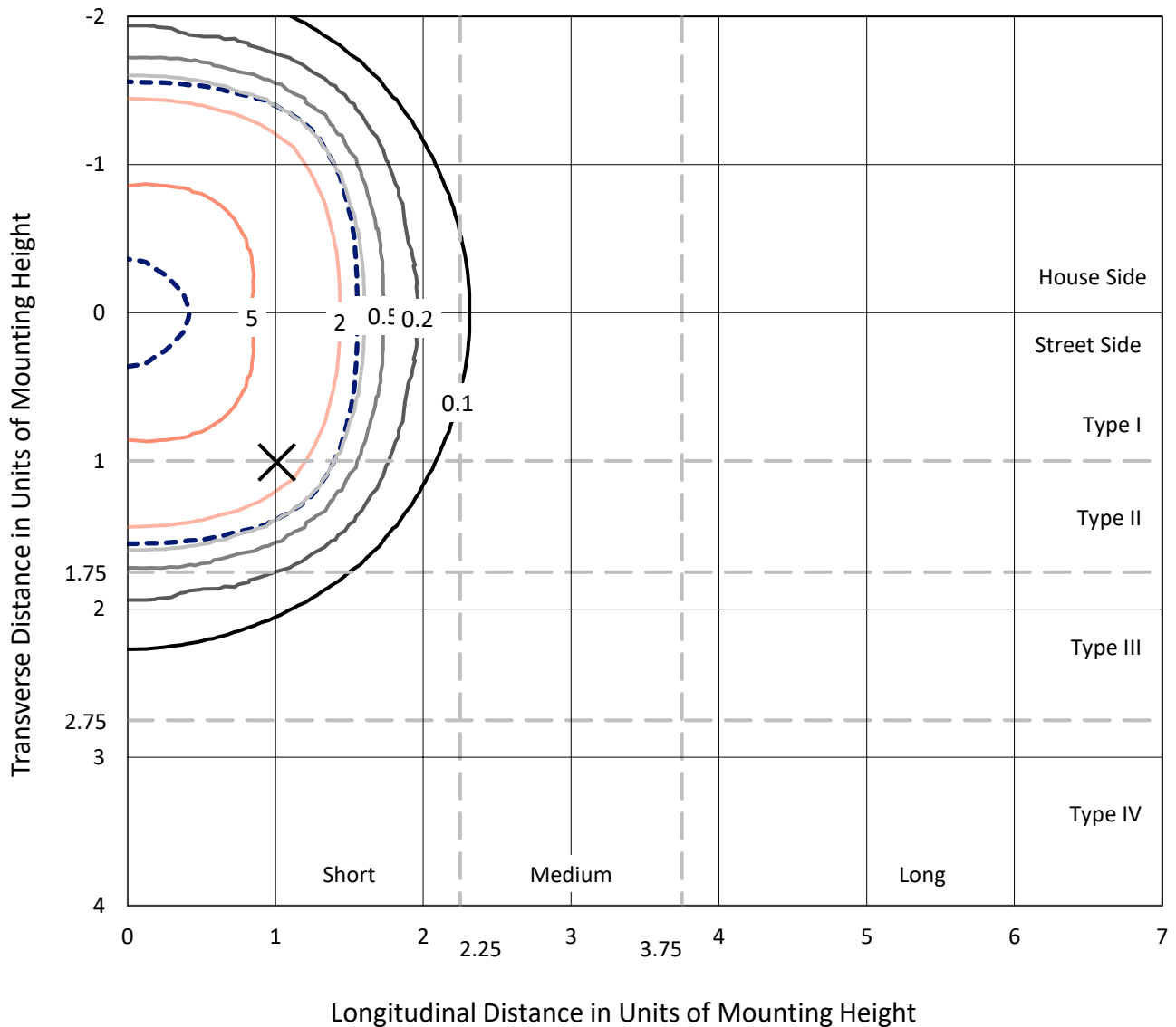
Input Watts (W): 245  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

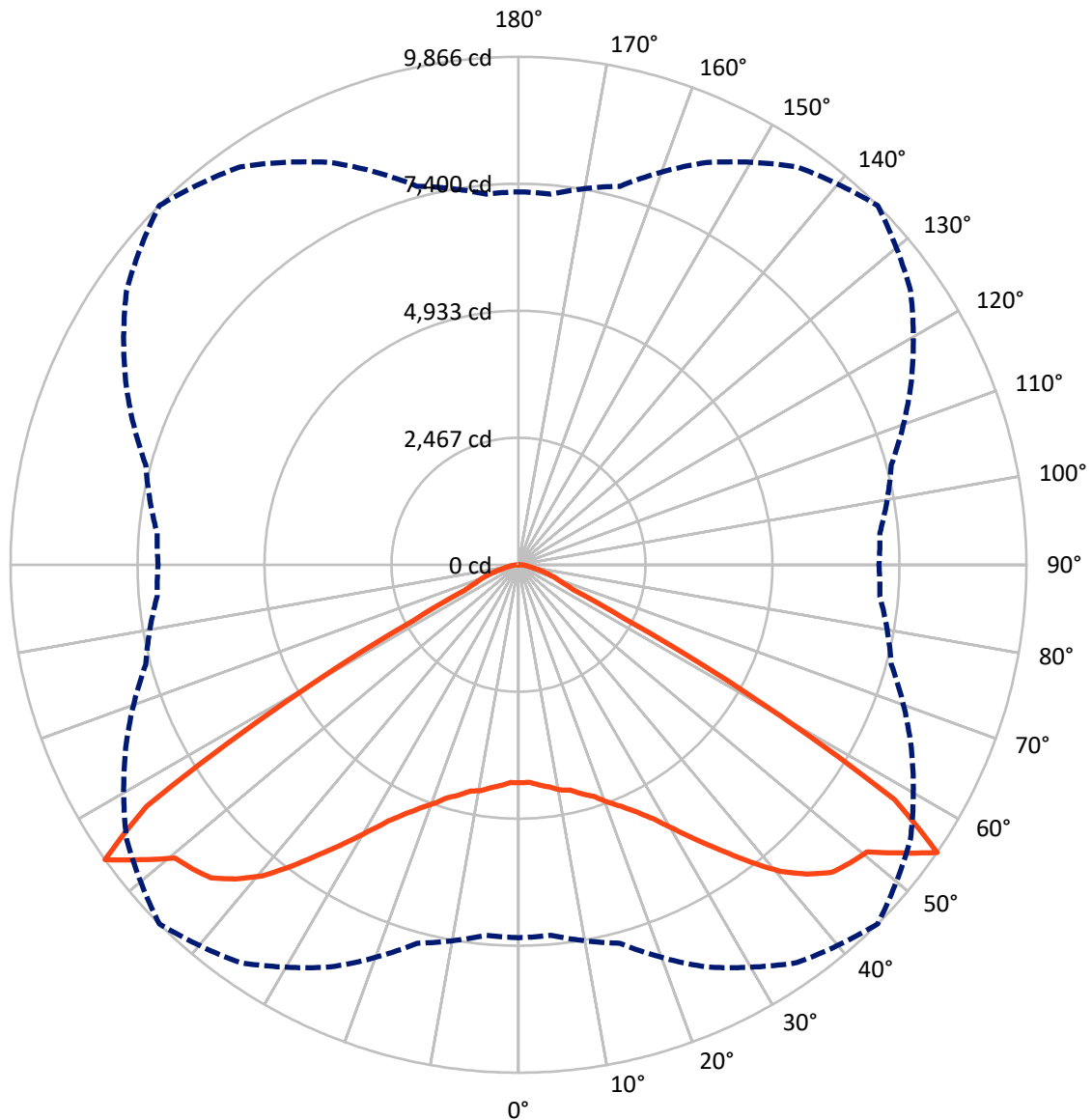
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

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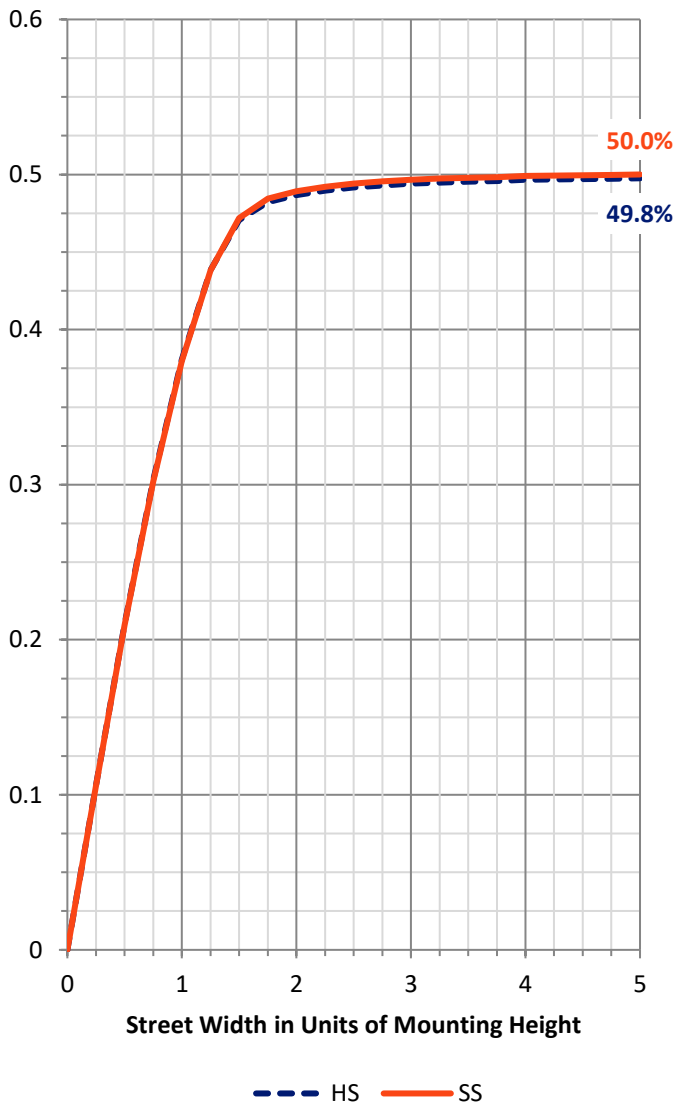
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11591.1	0.0	11591.1
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	11591.1	0.0	11591.1
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	23182.2	0.0	23182.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	413.5	1.8
10°-20°	1310.2	5.7
20°-30°	2443.0	10.5
30°-40°	4090.5	17.6
40°-50°	6365.1	27.5
50°-60°	6608.9	28.5
60°-70°	1401.5	6.0
70°-80°	461.6	2.0
80°-90°	87.9	0.4
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°	23182.2	100.0
0°-180°	23182.2	100.0

**Coefficient of Utilization**



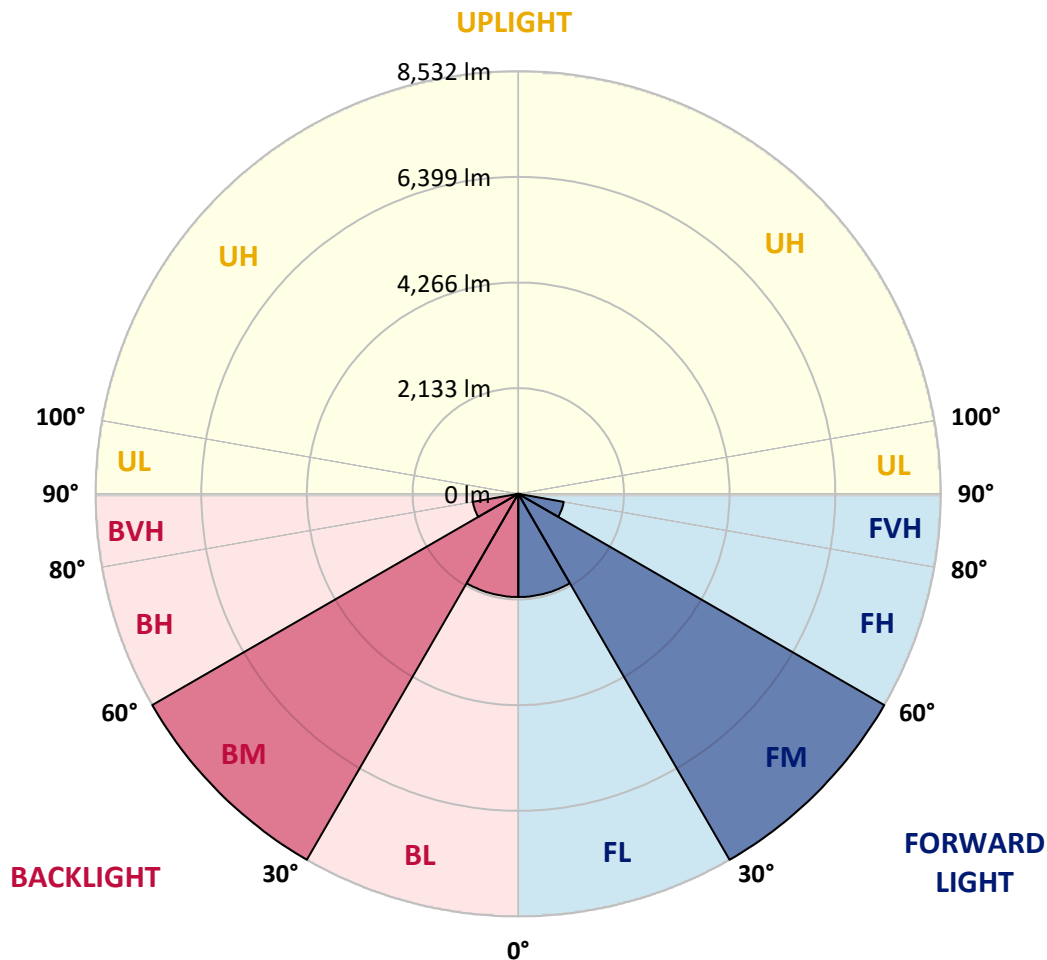
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2083.4	9.0			
FM (30°-60°)	8532.2	36.8			
FH (60°-80°)	931.6	4.0			G1/1800
FVH (80°-90°)	44.0	0.2			G1/100
BL (0°-30°)	2083.4	9.0	B3/2500		
BM (30°-60°)	8532.2	36.8	B5		
BH (60°-80°)	931.6	4.0	B2/1000		G1/1800
BVH (80°-90°)	44.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4232.8	4232.8	4232.8	4232.8	4232.8	4232.8	4232.8	4232.8	4232.8	4232.8	4232.8
2.5°	4283.1	4263.5	4229.9	4255.1	4274.7	4232.8	4249.5	4257.9	4252.3	4229.9	4238.3
5°	4344.8	4333.6	4305.6	4325.2	4299.9	4299.9	4283.1	4260.8	4294.3	4288.8	4302.7
7.5°	4344.8	4330.7	4386.8	4350.4	4361.6	4361.6	4333.6	4311.1	4328.0	4302.7	4288.8
10°	4431.6	4451.2	4426.0	4434.4	4428.8	4448.4	4406.4	4392.4	4378.4	4370.0	4353.2
12.5°	4535.3	4521.2	4529.6	4524.1	4543.7	4493.2	4468.1	4437.2	4462.4	4426.0	4451.2
15°	4619.3	4610.9	4619.3	4641.7	4622.1	4619.3	4574.5	4543.7	4504.5	4512.8	4473.6
17.5°	4734.2	4725.7	4728.5	4748.1	4745.3	4731.4	4697.7	4638.9	4624.9	4602.5	4577.3
20°	4905.0	4891.0	4885.5	4893.8	4907.8	4919.0	4851.8	4829.4	4781.8	4745.3	4703.3
22.5°	5050.7	5045.1	5067.5	5031.1	5061.9	5095.5	5031.1	5019.8	4902.2	4882.6	4837.8
25°	5252.4	5244.0	5230.0	5283.2	5319.6	5316.8	5255.2	5193.5	5103.9	5081.5	5081.5
27.5°	5465.2	5417.6	5490.5	5504.5	5568.9	5588.5	5535.3	5445.6	5361.6	5314.0	5325.2
30°	5731.4	5686.6	5703.4	5804.2	5888.3	5961.1	5826.6	5695.0	5577.3	5493.3	5479.3
32.5°	5997.5	5952.7	6003.1	6101.2	6269.2	6378.5	6246.9	6017.1	5879.9	5756.6	5781.8
35°	6213.2	6246.9	6328.1	6476.5	6650.2	6826.7	6616.6	6440.1	6244.0	6106.8	6126.3
37.5°	6560.6	6664.3	6728.7	6899.6	7146.1	7328.1	7109.6	6879.9	6669.8	6490.5	6428.9
40°	7014.4	7084.4	7157.2	7358.9	7650.2	7832.3	7625.1	7325.3	7118.1	6933.1	6924.7
42.5°	7513.0	7580.3	7655.9	7902.4	8076.0	8213.3	8022.8	7863.2	7633.4	7487.8	7479.3
45°	8092.9	8045.3	8129.3	8291.8	8437.4	8527.1	8403.8	8325.4	8160.1	8025.7	8011.6
47.5°	8479.5	8437.4	8588.7	8734.4	8756.7	8658.7	8683.9	8756.7	8583.1	8361.8	8431.8
50°	8703.5	8703.5	8804.4	8938.8	8896.9	8770.8	8969.7	8975.2	8801.6	8605.5	8605.5
52.5°	8314.1	8401.0	8686.8	9126.5	9266.6	9303.0	9258.2	9067.7	8613.9	8213.3	8193.7
55°	7244.1	7224.4	7611.0	8619.5	9434.7	9866.1	9294.6	8417.8	7496.2	7045.2	7000.4
57.5°	4711.7	4734.2	5311.2	6339.3	7809.9	8613.9	7650.2	6417.7	5311.2	4689.3	4748.1
60°	2120.6	2196.2	2546.4	3313.9	4577.3	5232.8	4588.5	3482.0	2672.4	2319.5	2350.3
62.5°	1218.5	1232.6	1246.5	1479.1	1949.7	2305.4	2025.3	1563.1	1378.2	1316.6	1316.6
65°	1028.0	1019.6	1022.5	1042.1	1092.5	1165.3	1134.5	1092.5	1098.1	1092.5	1084.1
67.5°	874.0	885.2	876.8	890.8	893.6	904.8	924.4	941.2	944.0	949.7	944.0
70°	717.1	719.9	725.5	736.7	739.6	747.9	776.0	790.0	798.4	798.4	809.5
72.5°	549.1	546.2	551.9	563.0	577.1	579.9	605.1	624.7	635.9	621.9	624.7
75°	361.4	364.2	372.6	381.0	400.6	420.2	428.6	448.2	451.0	456.6	442.6
77.5°	215.7	221.3	229.7	246.5	263.3	280.1	299.7	313.8	319.3	313.8	297.0
80°	140.0	140.0	151.3	165.3	184.9	198.9	210.1	221.3	229.7	221.3	215.7
82.5°	86.9	86.9	100.8	117.7	131.7	140.0	156.8	170.9	179.3	173.7	165.3
85°	44.8	47.6	58.8	72.8	84.0	89.7	86.9	78.5	70.1	67.2	61.6
87.5°	14.0	14.0	16.8	16.8	14.0	14.0	16.8	14.0	16.8	16.8	16.8
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)