

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: P650832

Luminaire Tested: **GALN-SA4C-840-U-5NQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P650832  
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-SA4C-840-U-5NQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 4000K, 1050mA 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: 21067.9 lumens  
Efficiency: N/A  
Efficacy: 98.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1

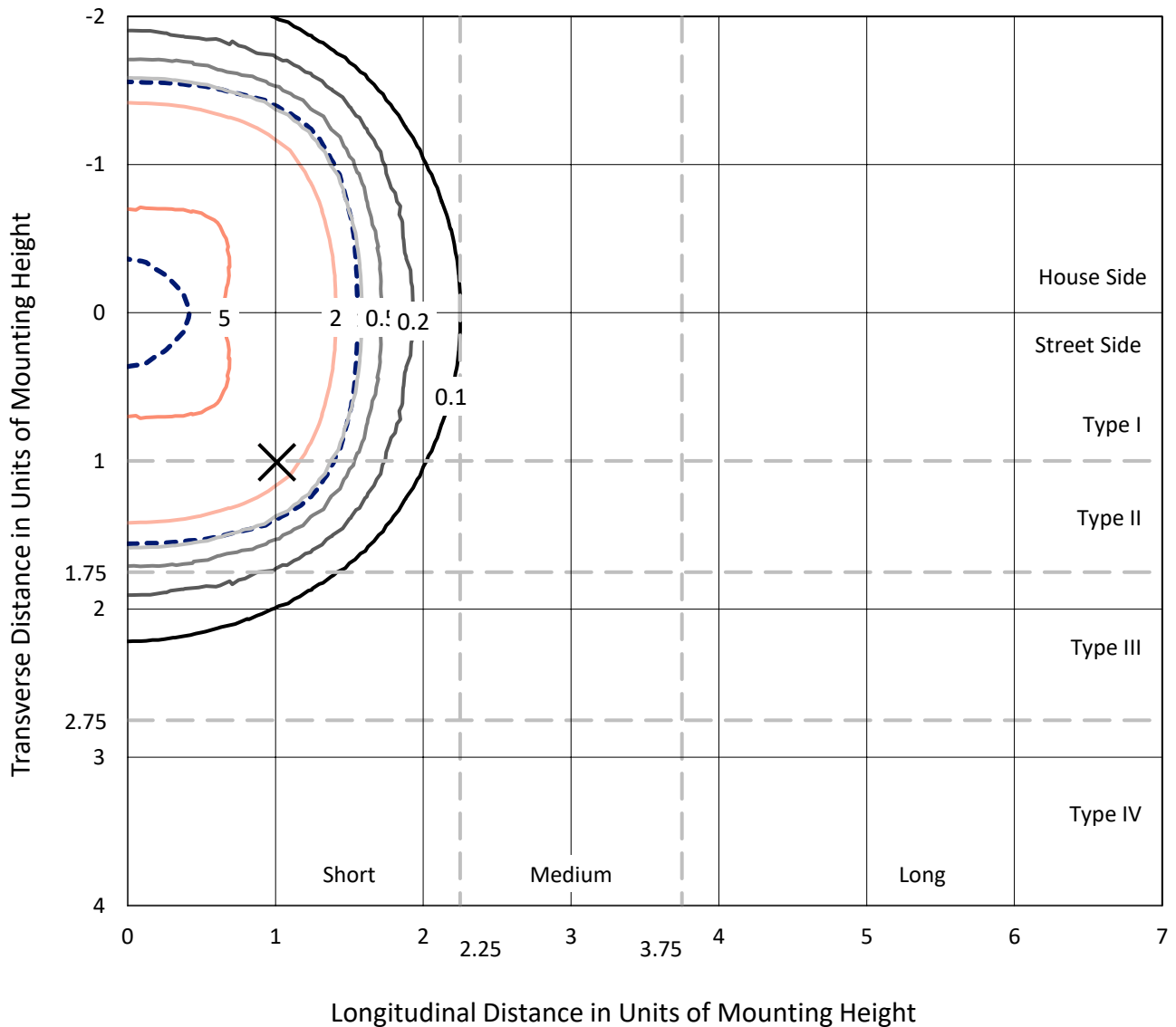
Input Watts (W): 213  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

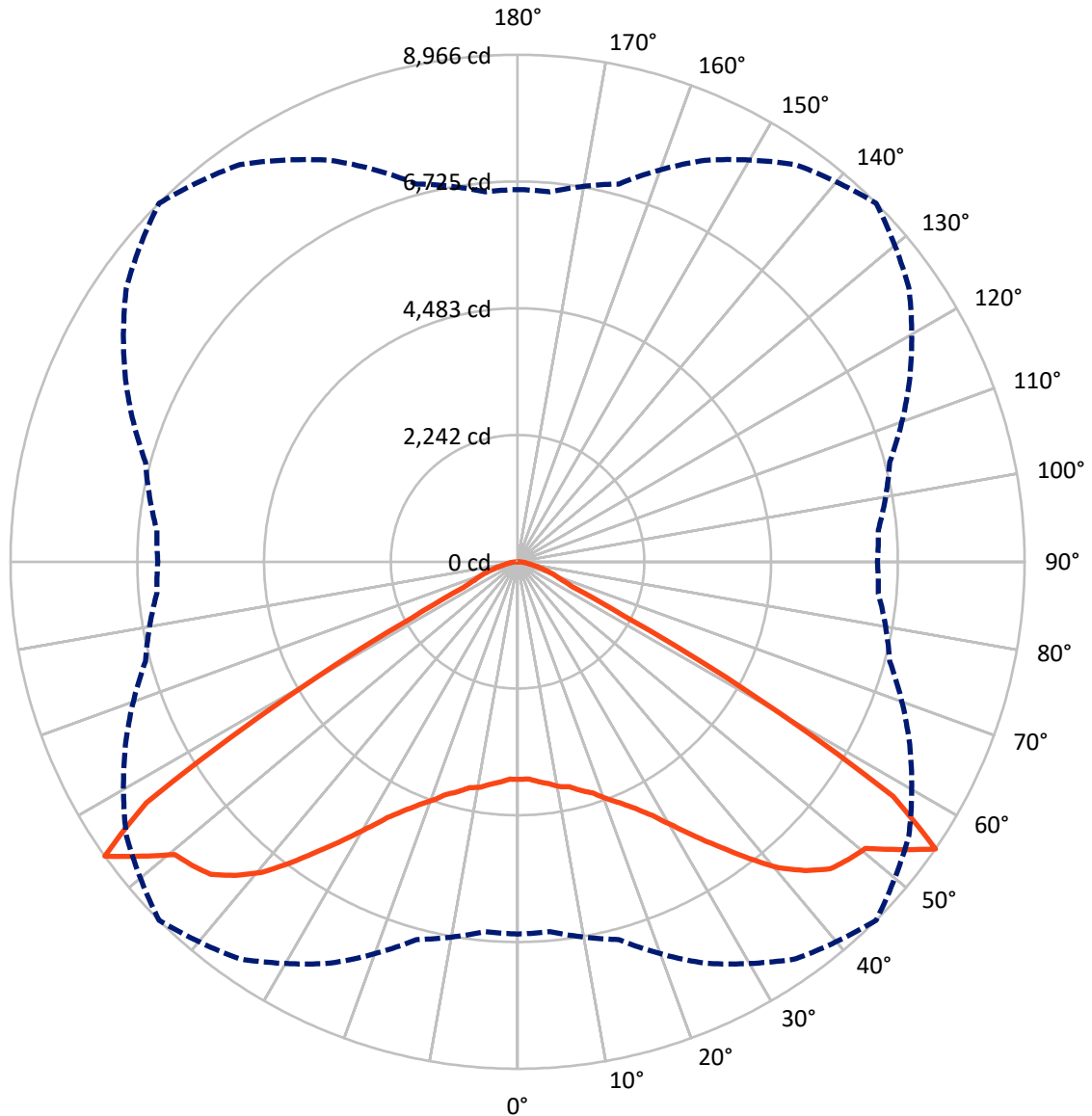
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 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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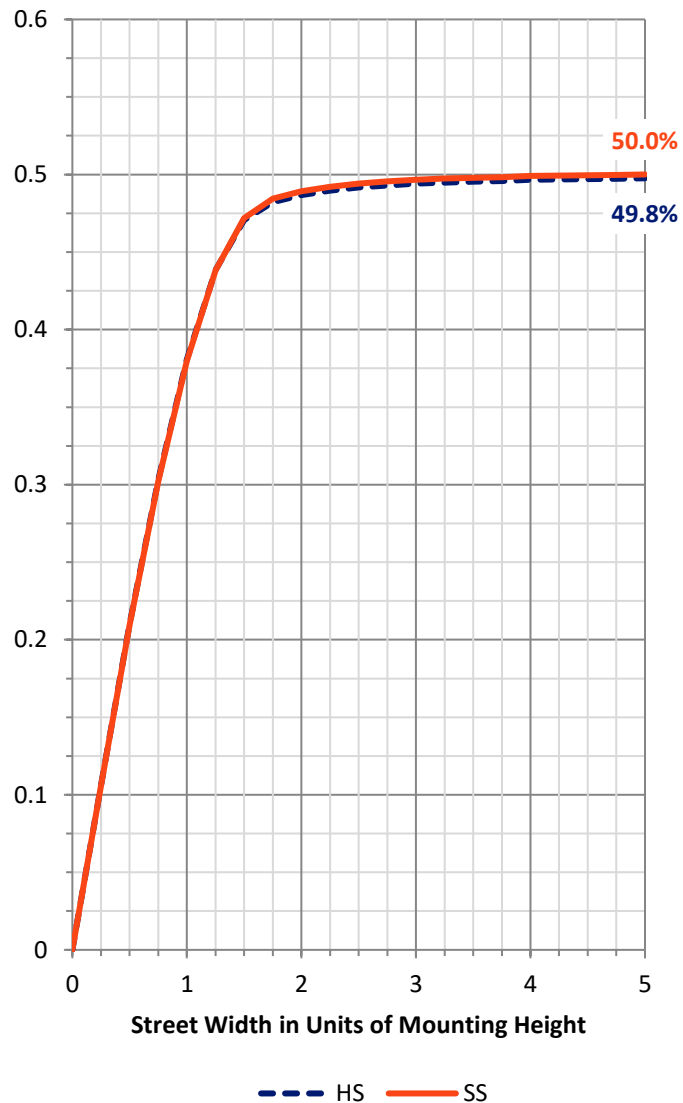
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10533.9	0.0	10533.9
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	10533.9	0.0	10533.9
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	21067.9	0.0	21067.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	375.8	1.8
10°-20°	1190.7	5.7
20°-30°	2220.2	10.5
30°-40°	3717.4	17.6
40°-50°	5784.5	27.5
50°-60°	6006.2	28.5
60°-70°	1273.7	6.0
70°-80°	419.5	2.0
80°-90°	79.9	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°	21067.9	100.0
0°-180°	21067.9	100.0

**Coefficient of Utilization**



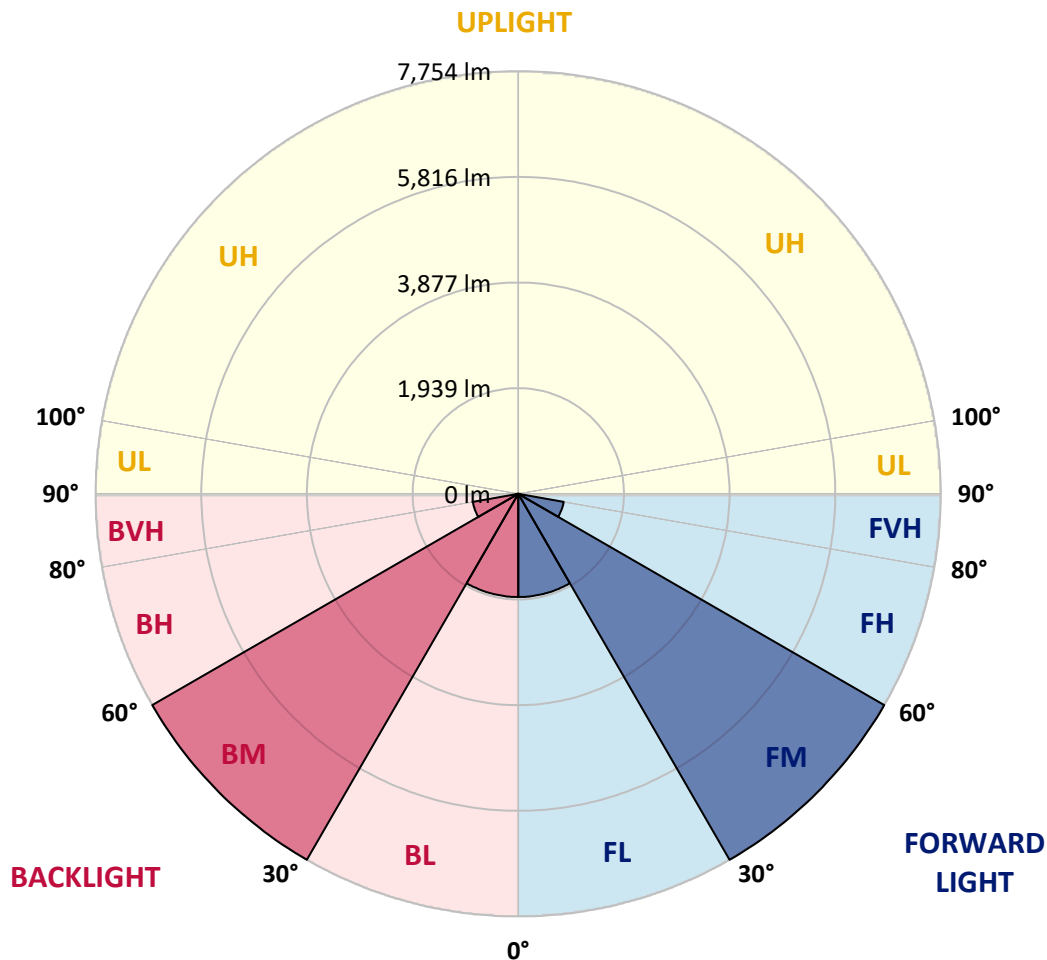
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1893.3	9.0			
FM (30°-60°)	7754.1	36.8			
FH (60°-80°)	846.6	4.0			G1/1800
FVH (80°-90°)	39.9	0.2			G1/100
BL (0°-30°)	1893.3	9.0	B3/2500		
BM (30°-60°)	7754.1	36.8	B4/8500		
BH (60°-80°)	846.6	4.0	B2/1000		G1/1800
BVH (80°-90°)	39.9	0.2			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°	3846.6	3846.6	3846.6	3846.6	3846.6	3846.6	3846.6	3846.6	3846.6	3846.6	3846.6
2.5°	3892.5	3874.7	3844.1	3867.1	3884.8	3846.6	3862.0	3869.6	3864.5	3844.1	3851.8
5°	3948.5	3938.3	3912.8	3930.7	3907.8	3907.8	3892.5	3872.1	3902.7	3897.6	3910.3
7.5°	3948.5	3935.8	3986.7	3953.6	3963.8	3963.8	3938.3	3918.0	3933.3	3910.3	3897.6
10°	4027.5	4045.3	4022.3	4030.0	4024.9	4042.7	4004.5	3991.8	3979.0	3971.5	3956.1
12.5°	4121.7	4108.9	4116.5	4111.5	4129.2	4083.5	4060.5	4032.5	4055.5	4022.3	4045.3
15°	4198.0	4190.4	4198.0	4218.4	4200.5	4198.0	4157.2	4129.2	4093.7	4101.2	4065.6
17.5°	4302.4	4294.7	4297.3	4315.1	4312.6	4299.9	4269.3	4215.8	4203.1	4182.7	4159.8
20°	4457.6	4444.9	4439.9	4447.5	4460.2	4470.4	4409.3	4388.9	4345.6	4312.6	4274.4
22.5°	4590.1	4585.0	4605.3	4572.3	4600.3	4630.8	4572.3	4562.1	4455.1	4437.3	4396.6
25°	4773.3	4765.7	4753.0	4801.4	4834.5	4831.9	4775.9	4719.9	4638.5	4618.0	4618.0
27.5°	4966.9	4923.6	4989.7	5002.4	5061.1	5078.9	5030.4	4949.0	4872.7	4829.4	4839.5
30°	5208.6	5167.9	5183.3	5274.8	5351.3	5417.5	5295.3	5175.6	5068.6	4992.3	4979.6
32.5°	5450.5	5409.8	5455.7	5544.7	5697.4	5796.8	5677.1	5468.4	5343.6	5231.6	5254.5
35°	5646.6	5677.1	5750.9	5885.8	6043.7	6204.1	6013.2	5852.8	5674.6	5549.8	5567.7
37.5°	5962.3	6056.5	6115.0	6270.2	6494.3	6659.8	6461.2	6252.4	6061.5	5898.6	5842.6
40°	6374.6	6438.3	6504.5	6687.8	6952.5	7118.1	6929.6	6657.3	6468.8	6300.9	6293.2
42.5°	6827.8	6888.9	6957.6	7181.6	7339.5	7464.2	7291.1	7146.1	6937.2	6804.9	6797.2
45°	7354.8	7311.5	7387.8	7535.5	7667.9	7749.4	7637.4	7566.1	7415.9	7293.7	7281.0
47.5°	7706.1	7667.9	7805.4	7937.8	7958.1	7869.0	7891.9	7958.1	7800.3	7599.2	7662.9
50°	7909.8	7909.8	8001.4	8123.6	8085.5	7970.8	8151.6	8156.7	7998.8	7820.6	7820.6
52.5°	7555.9	7634.9	7894.5	8294.2	8421.4	8454.6	8413.8	8240.7	7828.3	7464.2	7446.4
55°	6583.4	6565.6	6916.9	7833.4	8574.2	8966.2	8446.9	7650.1	6812.5	6402.6	6361.9
57.5°	4282.0	4302.4	4826.8	5761.1	7097.6	7828.3	6952.5	5832.4	4826.8	4261.7	4315.1
60°	1927.2	1995.9	2314.1	3011.7	4159.8	4755.5	4170.0	3164.4	2428.6	2107.9	2135.9
62.5°	1107.4	1120.1	1132.9	1344.2	1771.9	2095.2	1840.6	1420.5	1252.5	1196.5	1196.5
65°	934.3	926.7	929.2	947.1	992.9	1059.1	1031.1	992.9	997.9	992.9	985.2
67.5°	794.3	804.5	796.8	809.5	812.1	822.3	840.1	855.4	857.9	863.0	857.9
70°	651.7	654.3	659.3	669.5	672.1	679.7	705.2	717.9	725.5	725.5	735.7
72.5°	499.0	496.4	501.5	511.7	524.4	527.0	549.9	567.7	577.9	565.2	567.7
75°	328.4	330.9	338.6	346.2	364.1	381.9	389.5	407.3	409.9	414.9	402.3
77.5°	196.0	201.1	208.7	224.0	239.3	254.6	272.4	285.1	290.2	285.1	269.9
80°	127.3	127.3	137.5	150.2	168.0	180.7	190.9	201.1	208.7	201.1	196.0
82.5°	78.9	78.9	91.7	106.9	119.7	127.3	142.5	155.3	162.9	157.9	150.2
85°	40.7	43.3	53.5	66.2	76.4	81.5	78.9	71.3	63.7	61.1	56.0
87.5°	12.7	12.7	15.3	15.3	12.7	12.7	15.3	12.7	15.3	15.3	15.3
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)