

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: P650885

Luminaire Tested: **GALN-SA5C-840-U-5MQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P650885  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5C-840-U-5MQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 31054.8 lumens  
Efficiency: N/A  
Efficacy: 115.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

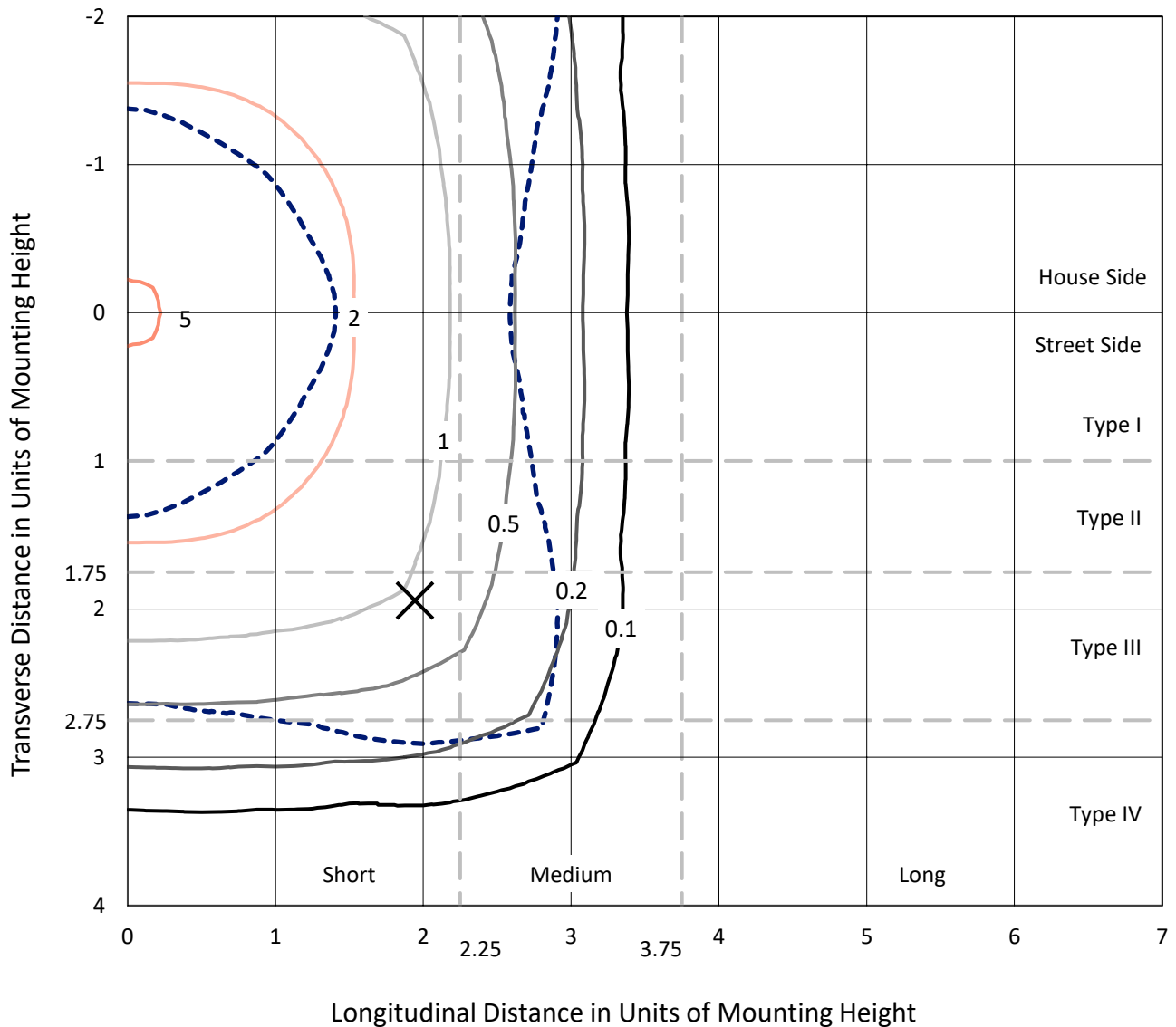
Input Watts (W): 269  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

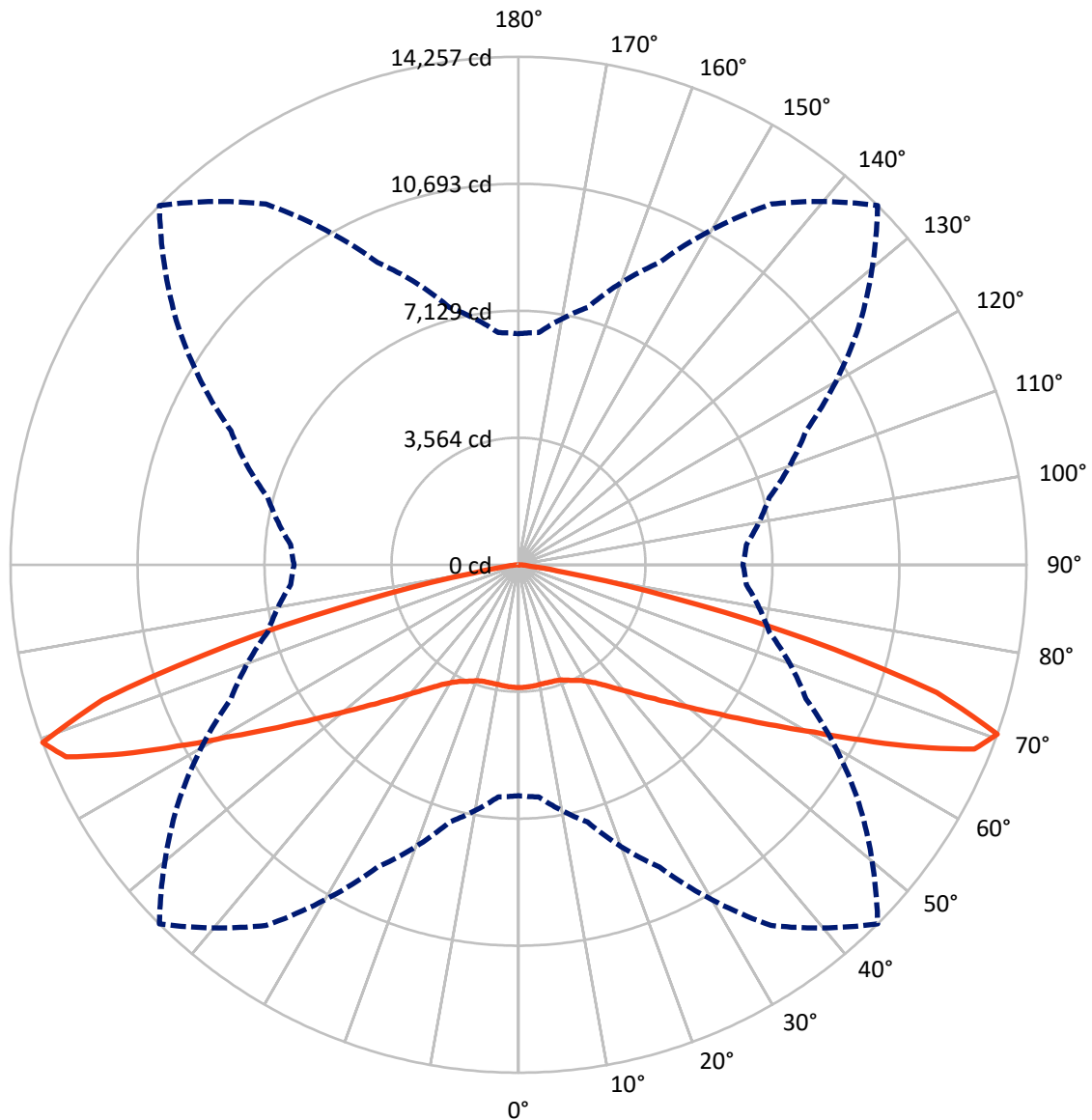
✕ Max cd  
 - - - 1/2 Max cd



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 45-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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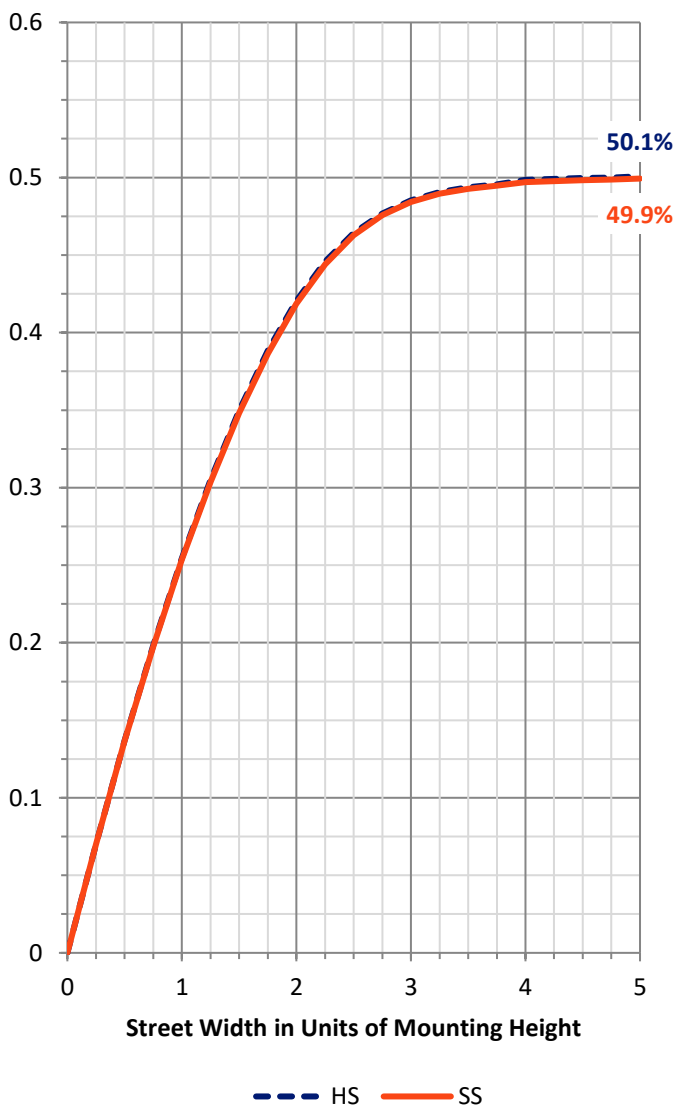
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	15527.4	0.0	15527.4
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	15527.4	0.0	15527.4
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	31054.8	0.0	31054.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	327.0	1.1
10°-20°	959.6	3.1
20°-30°	1641.2	5.3
30°-40°	2605.0	8.4
40°-50°	4202.5	13.5
50°-60°	6837.5	22.0
60°-70°	9912.0	31.9
70°-80°	4396.6	14.2
80°-90°	173.4	0.6
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°	31054.8	100.0
0°-180°	31054.8	100.0

**Coefficient of Utilization**



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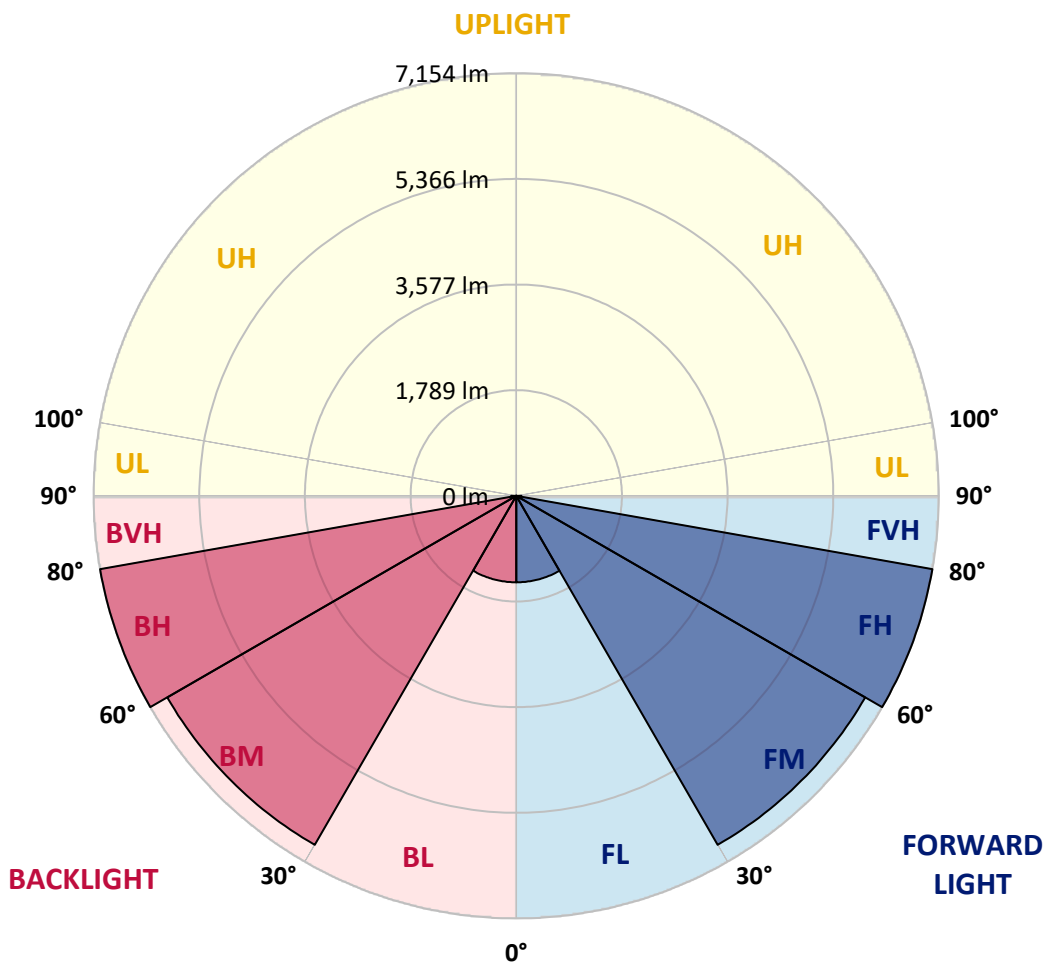
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1463.9	4.7			
FM (30°-60°)	6822.5	22.0			
FH (60°-80°)	7154.3	23.0			G3/7500
FVH (80°-90°)	86.7	0.3			G1/100
BL (0°-30°)	1463.9	4.7	B3/2500		
BM (30°-60°)	6822.5	22.0	B4/8500		
BH (60°-80°)	7154.3	23.0	B5		G3/7500
BVH (80°-90°)	86.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3448.5	3448.5	3448.5	3448.5	3448.5	3448.5	3448.5	3448.5	3448.5	3448.5	3448.5
2.5°	3448.5	3451.8	3446.8	3443.6	3442.0	3442.0	3440.3	3442.0	3451.8	3453.4	3448.5
5°	3438.7	3442.0	3440.3	3437.0	3435.4	3435.4	3433.7	3432.1	3440.3	3443.6	3442.0
7.5°	3425.6	3427.2	3425.6	3424.0	3425.6	3424.0	3419.0	3415.7	3422.3	3422.3	3420.7
10°	3402.7	3406.0	3404.3	3406.0	3409.2	3409.2	3402.7	3396.1	3397.7	3394.4	3394.4
12.5°	3374.8	3379.7	3381.4	3388.0	3396.1	3406.0	3391.2	3376.4	3373.2	3371.6	3369.9
15°	3356.9	3361.7	3368.3	3374.8	3389.6	3410.8	3389.6	3366.7	3360.1	3353.6	3350.3
17.5°	3351.9	3358.4	3368.3	3378.1	3397.7	3419.0	3401.0	3378.1	3361.7	3351.9	3348.6
20°	3365.0	3369.9	3384.7	3402.7	3430.5	3451.8	3433.7	3409.2	3384.7	3369.9	3365.0
22.5°	3391.2	3399.4	3417.4	3450.1	3489.4	3520.5	3496.0	3455.0	3415.7	3396.1	3389.6
25°	3448.5	3455.0	3476.3	3520.5	3566.3	3595.8	3569.6	3522.1	3468.1	3442.0	3433.7
27.5°	3535.2	3545.1	3567.9	3620.3	3658.0	3674.3	3656.3	3623.6	3584.3	3556.5	3549.9
30°	3658.0	3669.5	3703.8	3759.4	3784.0	3793.8	3785.7	3764.4	3736.6	3707.0	3700.6
32.5°	3823.3	3829.8	3869.1	3921.5	3944.4	3947.7	3937.8	3928.1	3882.2	3833.1	3829.8
35°	4008.2	4019.7	4067.2	4129.3	4150.6	4152.3	4132.6	4117.9	4063.9	4024.6	4024.6
37.5°	4253.7	4258.7	4304.5	4374.9	4397.8	4391.2	4381.4	4368.3	4311.1	4260.3	4261.9
40°	4541.8	4551.6	4590.9	4672.8	4672.8	4664.5	4671.1	4661.2	4604.0	4554.9	4556.5
42.5°	4883.9	4888.7	4936.2	5023.0	5016.4	5000.1	5006.6	4993.5	4957.5	4901.9	4882.3
45°	5248.8	5268.4	5350.3	5433.8	5420.7	5368.3	5394.5	5391.2	5358.5	5275.0	5280.0
47.5°	5689.1	5721.8	5800.4	5900.2	5885.5	5803.7	5833.1	5852.8	5806.9	5715.3	5699.0
50°	6185.1	6206.3	6322.5	6415.8	6402.7	6315.9	6383.0	6386.3	6271.8	6142.5	6142.5
52.5°	6713.7	6735.0	6892.1	7037.7	7045.9	6919.9	6973.9	6970.6	6784.0	6613.8	6581.1
55°	7306.1	7315.9	7518.9	7733.3	7779.2	7656.4	7662.9	7597.5	7355.2	7157.2	7139.2
57.5°	7918.3	7954.3	8178.5	8456.8	8592.6	8517.3	8482.9	8307.8	8073.8	7846.3	7834.8
60°	8595.9	8597.5	8888.8	9217.8	9492.8	9543.5	9402.7	9168.7	8865.9	8564.7	8551.6
62.5°	9065.6	9136.0	9504.2	10060.7	10553.3	10838.1	10466.6	9975.6	9379.8	8893.7	8844.6
65°	9162.1	9209.6	9771.0	10713.8	11720.3	12334.0	11474.8	10430.6	9414.2	8766.1	8733.4
67.5°	8381.4	8432.2	9188.3	10635.1	12538.6	13797.2	12129.4	10211.3	8831.5	8029.5	7965.7
70°	6482.9	6540.2	7474.7	9361.8	12356.9	14257.1	11663.0	8906.8	7283.2	6417.4	6301.2
72.5°	3446.8	3658.0	4456.7	6425.6	10029.6	12275.1	9563.1	6499.2	4697.2	3839.7	3685.8
75°	1258.6	1284.8	1729.9	2849.5	5834.8	8417.5	6059.0	3099.8	1782.3	1376.5	1306.1
77.5°	520.5	518.8	569.5	860.9	2119.5	4311.1	2365.0	910.0	567.9	525.4	518.8
80°	307.7	307.7	338.8	358.4	558.1	1301.2	623.6	405.9	340.4	311.0	315.9
82.5°	137.5	145.7	214.4	225.9	270.0	356.8	301.2	258.6	222.6	153.8	139.1
85°	75.3	65.4	112.9	117.8	129.3	132.5	142.4	140.8	129.3	75.3	77.0
87.5°	14.7	18.0	32.7	24.6	27.8	24.6	32.7	45.8	47.4	26.2	21.3
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)