

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: P951487

Luminaire Tested: **GALN-SB5C-850-U-5MQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951487  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB5C-850-U-5MQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

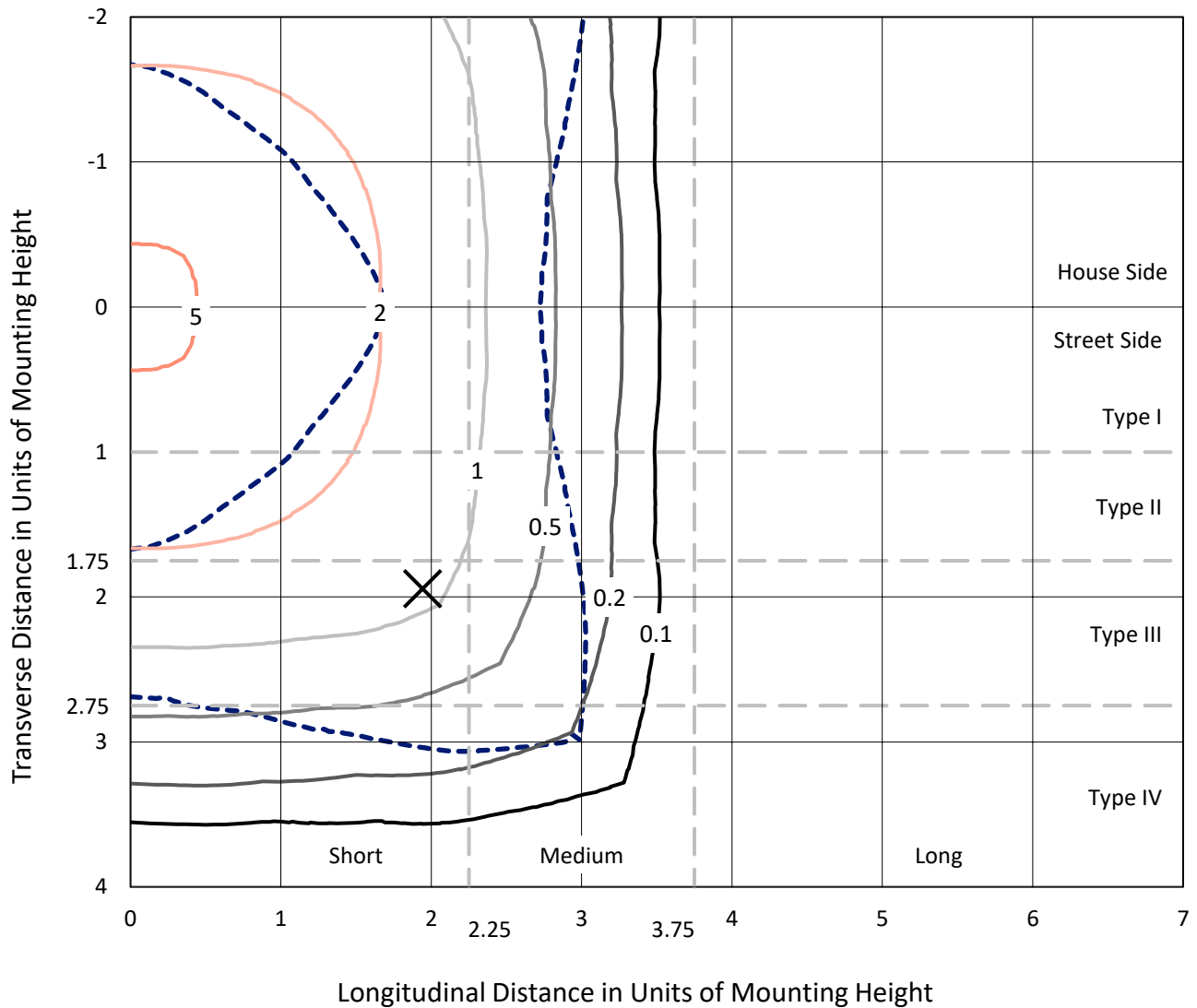
Lumens per Lamp: N/A  
Luminaire Lumens: 37896 lumens  
Efficiency: N/A  
Efficacy: 151.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4  
  
Input Watts (W): 249.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

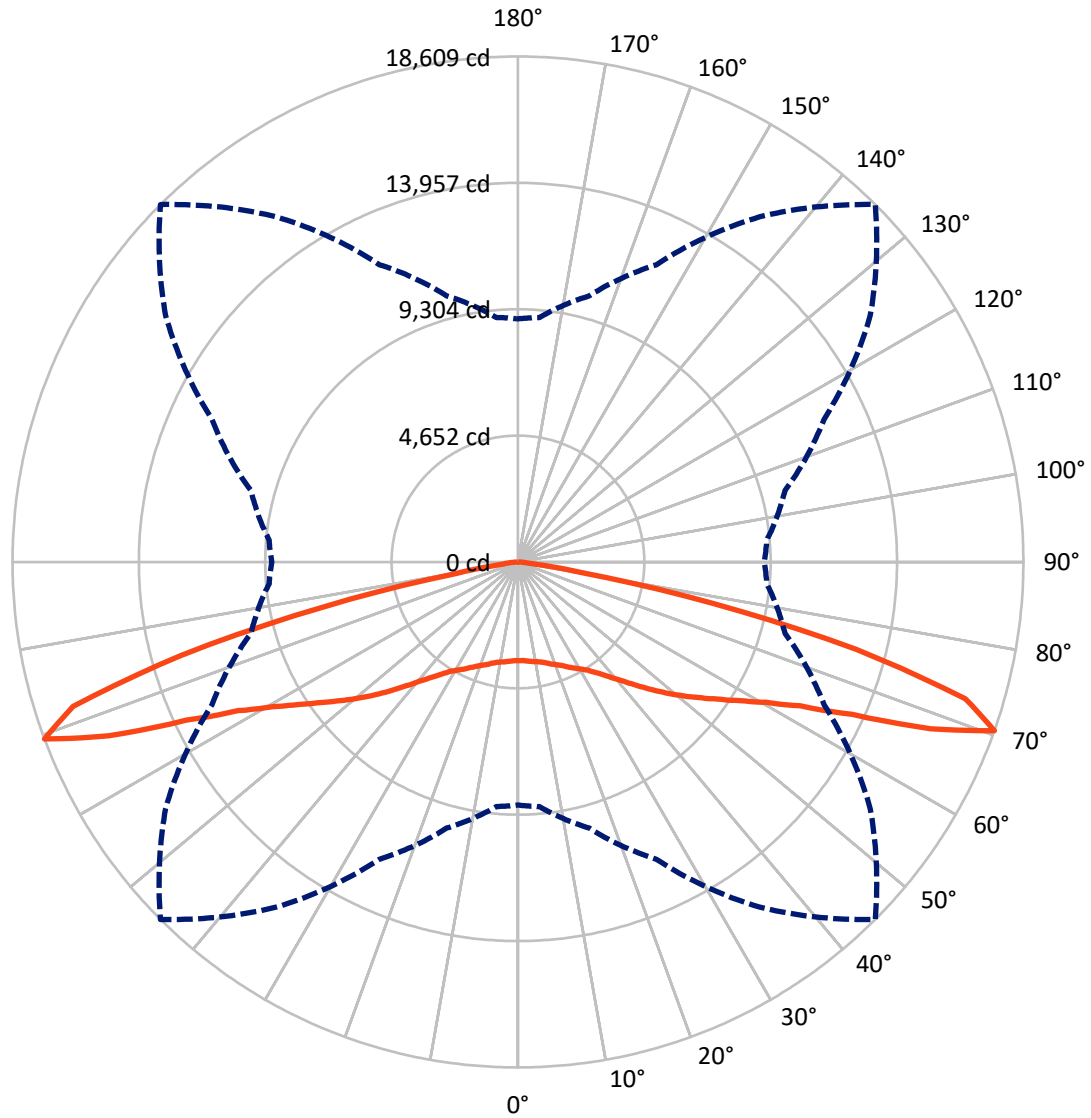
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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	18948.0	0.0	18948.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	18948.0	0.0	18948.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	37896.0	0.0	37896.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	352.7	0.9
10°-20°	1093.6	2.9
20°-30°	1954.3	5.2
30°-40°	3167.9	8.4
40°-50°	5160.0	13.6
50°-60°	7867.3	20.8
60°-70°	11704.0	30.9
70°-80°	6379.1	16.8
80°-90°	217.2	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°	37896.0	100.0
0°-180°	37896.0	100.0

**Coefficient of Utilization**



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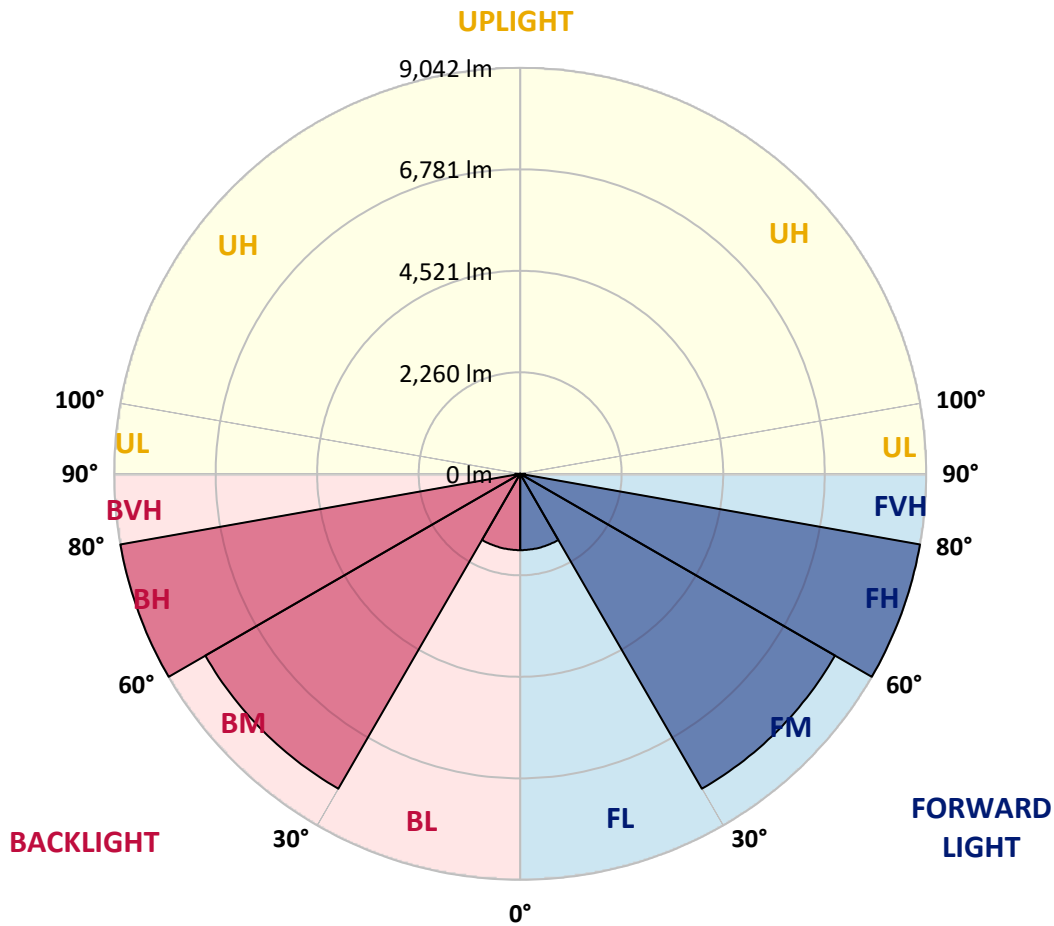
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1700.3	4.5			
FM (30°-60°)	8097.6	21.4			
FH (60°-80°)	9041.5	23.9			G4/12000
FVH (80°-90°)	108.6	0.3			G2/225
BL (0°-30°)	1700.3	4.5	B3/2500		
BM (30°-60°)	8097.6	21.4	B4/8500		
BH (60°-80°)	9041.5	23.9	B5		G4/12000
BVH (80°-90°)	108.6	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G4**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3630.0	3630.0	3630.0	3630.0	3630.0	3630.0	3630.0	3630.0	3630.0	3630.0
2.5°	3647.2	3651.0	3643.4	3639.6	3635.8	3630.0	3631.9	3641.5	3649.1	3647.2
5°	3677.6	3681.4	3675.7	3673.8	3666.2	3664.3	3664.3	3673.8	3679.5	3675.7
7.5°	3711.9	3717.6	3708.0	3706.1	3702.3	3698.5	3696.6	3706.1	3711.9	3711.9
10°	3744.2	3749.9	3742.3	3736.6	3732.8	3732.8	3729.0	3736.6	3746.1	3744.2
12.5°	3778.4	3782.2	3774.6	3770.8	3770.8	3776.5	3770.8	3774.6	3782.2	3778.4
15°	3820.3	3822.2	3820.3	3826.0	3835.5	3854.5	3837.4	3833.6	3837.4	3827.9
17.5°	3877.4	3881.2	3888.8	3902.1	3915.4	3949.7	3919.2	3909.7	3909.7	3890.7
20°	3947.8	3953.5	3964.9	3987.7	4004.8	4037.2	4006.7	3993.4	3987.7	3963.0
22.5°	4022.0	4031.5	4048.6	4079.0	4109.5	4139.9	4109.5	4086.7	4069.5	4037.2
25°	4107.6	4119.0	4145.6	4195.1	4237.0	4280.7	4244.6	4198.9	4164.7	4119.0
27.5°	4229.3	4242.7	4275.0	4335.9	4389.2	4427.2	4393.0	4334.0	4286.4	4231.2
30°	4400.6	4413.9	4451.9	4516.6	4552.8	4577.5	4554.7	4509.0	4451.9	4389.2
32.5°	4621.3	4638.4	4680.2	4741.1	4748.7	4752.5	4744.9	4722.1	4680.2	4604.1
35°	4900.9	4920.0	4967.5	5017.0	5009.4	5017.0	5005.6	4998.0	4967.5	4880.0
37.5°	5243.4	5266.2	5315.7	5353.7	5334.7	5325.2	5327.1	5329.0	5311.9	5214.9
40°	5641.0	5671.5	5707.6	5747.6	5715.2	5686.7	5705.7	5720.9	5705.7	5606.8
42.5°	6050.1	6093.8	6131.9	6189.0	6162.3	6126.2	6152.8	6169.9	6137.6	6031.0
45°	6504.8	6546.6	6596.1	6681.7	6662.7	6624.6	6662.7	6666.5	6611.3	6485.8
47.5°	6974.7	7018.5	7092.7	7206.8	7199.2	7157.4	7206.8	7180.2	7109.8	6959.5
50°	7419.9	7480.8	7594.9	7754.7	7770.0	7718.6	7785.2	7733.8	7615.9	7427.5
52.5°	7838.5	7903.1	8083.9	8300.8	8356.0	8289.4	8378.8	8289.4	8112.4	7870.8
55°	8277.9	8350.2	8565.2	8848.7	8959.1	8909.6	8993.3	8858.2	8607.1	8314.1
57.5°	8795.4	8839.2	9096.0	9432.8	9619.2	9630.7	9668.7	9440.4	9136.0	8803.0
60°	9356.7	9417.6	9697.2	10100.6	10395.5	10490.6	10450.6	10112.0	9758.1	9375.7
62.5°	10075.8	10142.4	10477.3	10960.5	11426.6	11662.6	11506.6	11015.7	10578.1	10119.6
65°	10671.3	10745.5	11350.5	12212.4	13060.9	13534.7	13142.7	12239.0	11451.4	10804.5
67.5°	10239.5	10330.8	11280.2	12863.1	14973.0	16386.6	15045.3	13057.1	11514.2	10637.1
70°	8949.5	9035.2	10142.4	12077.3	15511.4	18608.7	15834.8	12433.1	10178.6	9196.9
72.5°	5941.6	6217.5	7338.1	9659.2	13850.5	17219.9	13987.5	9463.2	6807.3	5928.3
75°	1971.0	2191.7	2956.5	5007.5	9276.8	12878.3	8831.6	4431.0	2342.0	1685.6
77.5°	496.6	572.7	789.6	1432.6	3700.4	7332.4	3331.3	1170.1	637.4	445.2
80°	241.6	266.4	380.5	477.5	926.5	2330.6	869.5	449.0	300.6	232.1
82.5°	133.2	135.1	215.0	270.2	344.4	603.1	357.7	262.6	173.1	140.8
85°	81.8	79.9	114.2	144.6	144.6	215.0	171.2	144.6	98.9	87.5
87.5°	32.3	32.3	41.9	45.7	40.0	55.2	43.8	47.6	38.1	36.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
3630.0
3649.1
3677.6
3711.9
3744.2
3776.5
3827.9
3890.7
3963.0
4035.3
4117.1
4229.3
4389.2
4606.0
4880.0
5214.9
5606.8
6038.7
6499.1
6950.0
7423.7
7848.0
8274.1
8757.4
9314.8
10039.7
10698.0
10505.8
9065.6
5736.2
1594.3
397.6
213.1
140.8
91.3
38.1
0.0

OF REPORT)