

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: P951281

Luminaire Tested: **GALN-SB5C-727-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951281
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5C-727-U-RW
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36133 lumens
Efficiency: N/A
Efficacy: 144.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B5 - U0 - G5

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



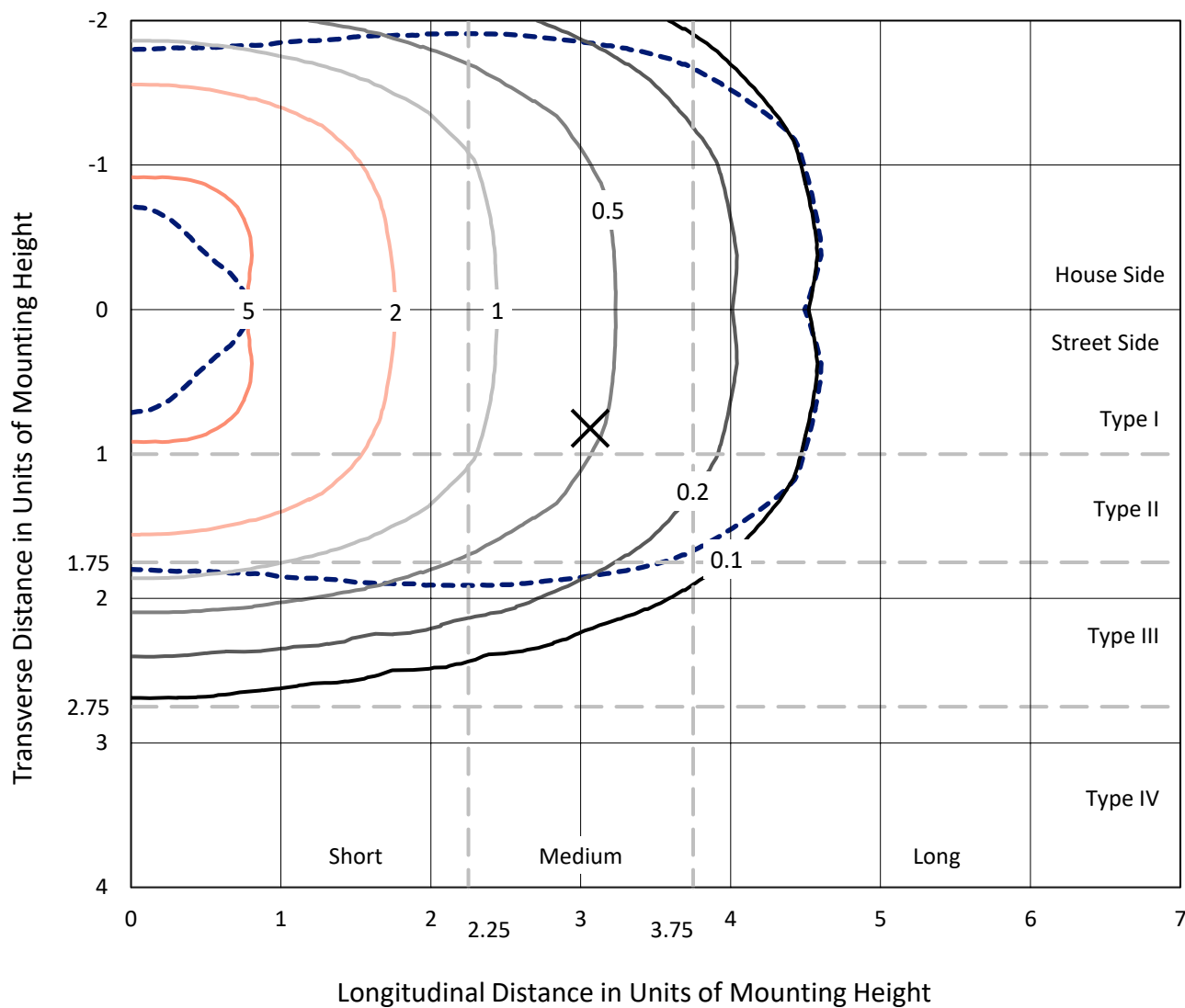
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Iso-Footcandle Lines of Horizontal Illumination

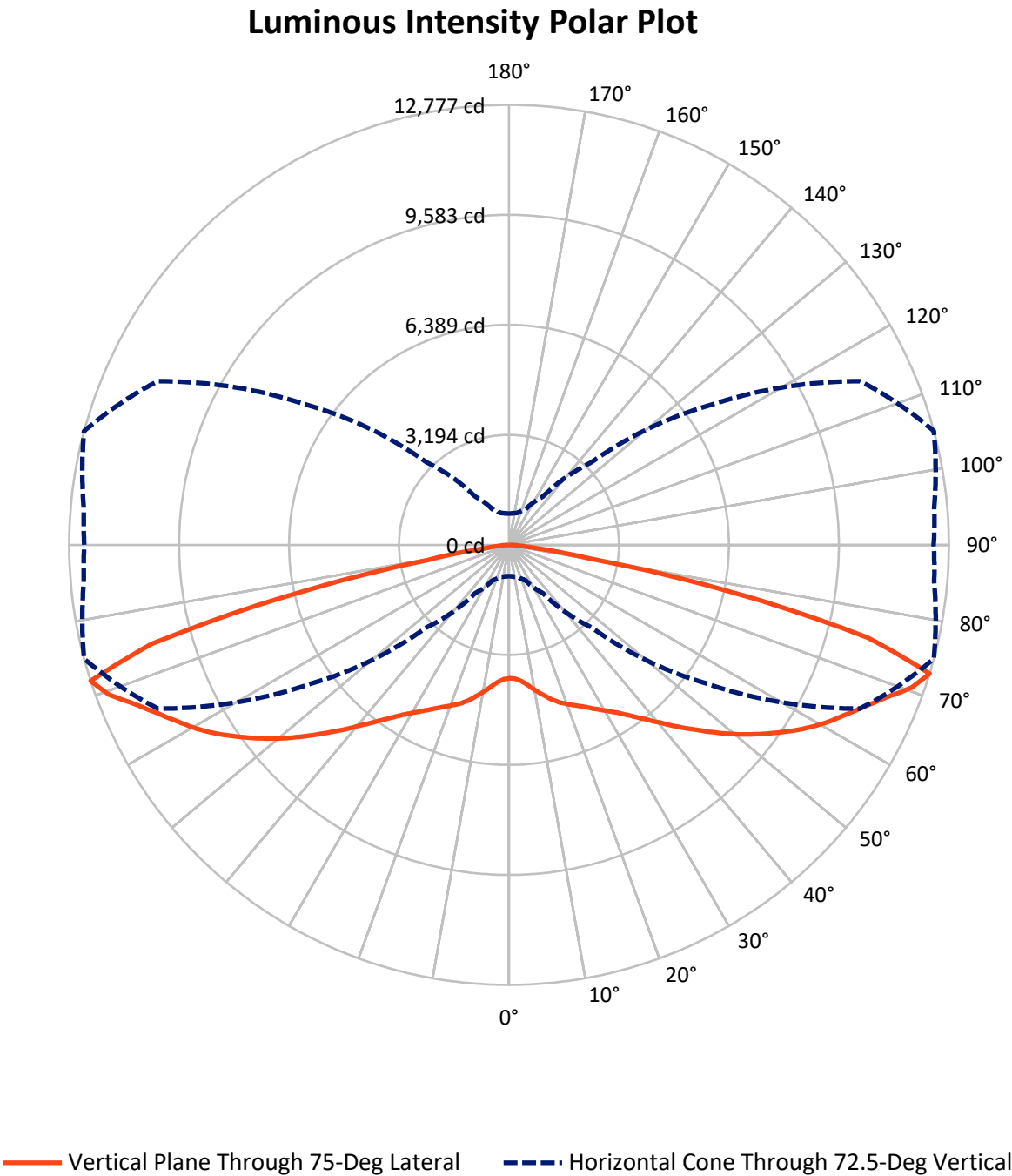
✕ Max cd

--- 1/2 Max cd



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18066.5	0.0	18066.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18066.5	0.0	18066.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	36133.0	0.0	36133.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	379.2	1.0
10°-20°	1250.5	3.5
20°-30°	2416.3	6.7
30°-40°	4080.1	11.3
40°-50°	6470.6	17.9
50°-60°	8663.4	24.0
60°-70°	8244.8	22.8
70°-80°	4302.3	11.9
80°-90°	325.7	0.9
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°	36133.0	100.0
0°-180°	36133.0	100.0

Coefficient of Utilization



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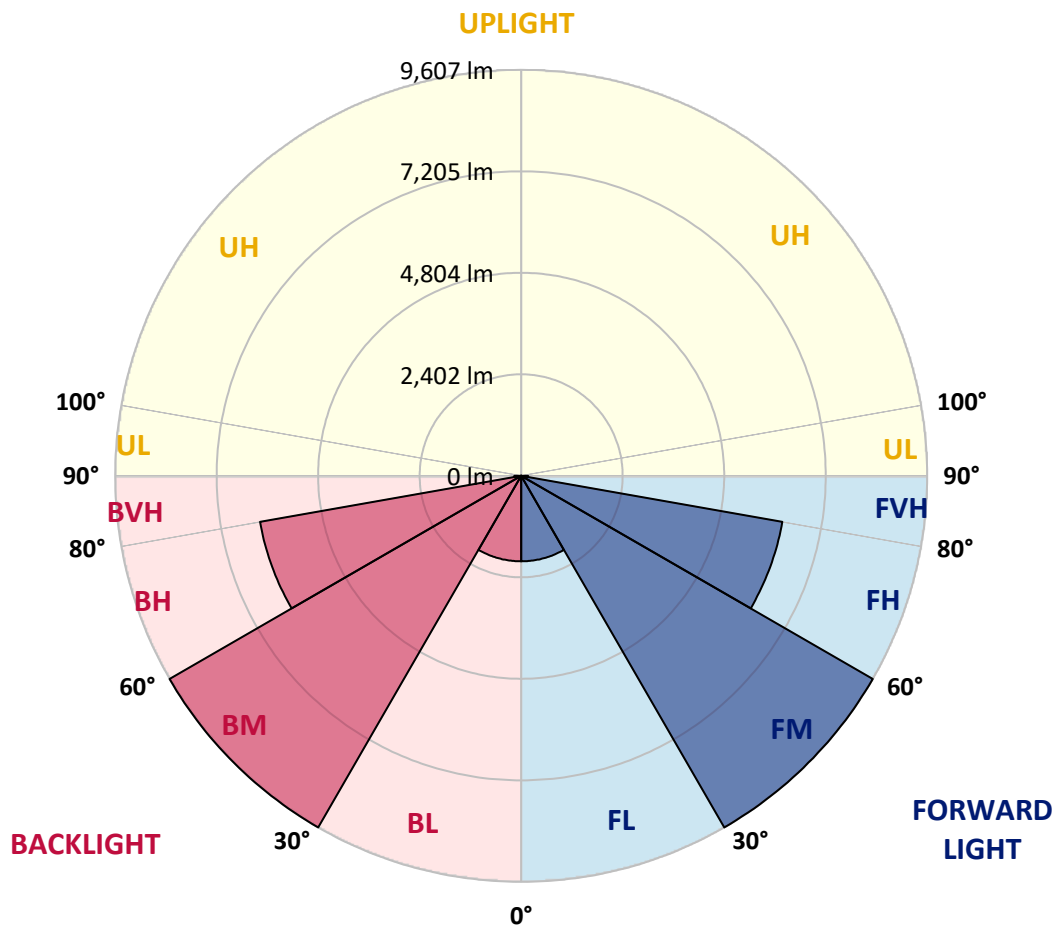
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2023.0	5.6			
FM	(30°-60°)	9607.1	26.6			
FH	(60°-80°)	6273.5	17.4			G3/7500
FVH	(80°-90°)	162.8	0.5			G2/225
BL	(0°-30°)	2023.0	5.6	B3/2500		
BM	(30°-60°)	9607.1	26.6	B5		
BH	(60°-80°)	6273.5	17.4	B5		G5
BVH	(80°-90°)	162.8	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3870.5	3870.5	3870.5	3870.5	3870.5	3870.5	3870.5	3870.5	3870.5	3870.5	3870.5
2.5°	3870.5	3866.8	3870.5	3874.2	3872.3	3872.3	3881.6	3887.1	3898.2	3896.3	3894.5
5°	3844.7	3842.8	3857.6	3874.2	3887.1	3909.2	3936.9	3957.2	3983.0	3988.6	3988.6
7.5°	3831.7	3826.2	3852.0	3881.6	3922.1	3977.5	4031.0	4086.3	4130.6	4145.4	4149.1
10°	3841.0	3842.8	3877.9	3933.2	3997.8	4075.3	4150.9	4245.0	4307.7	4322.5	4337.2
12.5°	3883.4	3879.7	3938.8	4027.3	4115.9	4213.6	4302.2	4405.5	4473.8	4508.8	4523.6
15°	3960.9	3953.5	4036.5	4167.5	4296.7	4411.0	4483.0	4580.8	4660.1	4704.4	4721.0
17.5°	4053.1	4056.8	4165.7	4335.4	4505.1	4634.3	4702.5	4752.3	4813.2	4852.0	4870.4
20°	4215.5	4222.9	4344.6	4545.7	4739.4	4887.0	4942.3	4923.9	4940.5	4970.0	4992.2
22.5°	4433.2	4436.9	4573.4	4791.1	4994.0	5156.4	5193.2	5117.6	5071.5	5091.8	5106.5
25°	4685.9	4709.9	4846.4	5069.6	5278.1	5433.1	5449.7	5335.3	5220.9	5226.5	5235.7
27.5°	4994.0	5016.1	5154.5	5375.9	5588.0	5722.7	5720.9	5567.8	5399.9	5357.4	5370.4
30°	5327.9	5351.9	5494.0	5722.7	5920.1	6038.2	6012.4	5829.7	5589.9	5510.6	5519.8
32.5°	5724.6	5739.3	5883.2	6112.0	6294.6	6388.7	6335.2	6110.1	5811.3	5720.9	5743.0
35°	6204.2	6226.4	6333.4	6549.2	6709.7	6787.2	6696.8	6431.1	6095.4	5993.9	6008.7
37.5°	6752.1	6737.4	6859.1	7051.0	7183.8	7231.8	7108.2	6792.7	6420.1	6300.2	6322.3
40°	7324.0	7316.7	7449.5	7634.0	7705.9	7735.4	7552.8	7207.8	6794.6	6665.4	6707.9
42.5°	7842.4	7836.9	8015.9	8220.6	8307.4	8274.1	8043.5	7648.7	7228.1	7080.5	7117.4
45°	8257.5	8250.2	8469.7	8757.5	8927.2	8871.9	8561.9	8135.8	7667.2	7514.1	7549.1
47.5°	8576.7	8580.4	8816.5	9172.6	9469.6	9489.9	9091.4	8632.0	8150.5	7977.1	8028.8
50°	8807.3	8818.4	9071.1	9465.9	9871.8	10050.7	9632.0	9141.2	8650.5	8454.9	8514.0
52.5°	8864.5	8884.8	9189.2	9652.2	10130.1	10471.4	10181.7	9630.1	9124.6	8938.3	8986.3
55°	8560.1	8600.7	8986.3	9637.5	10288.7	10748.1	10665.1	10126.4	9602.4	9410.6	9464.1
57.5°	7860.9	7918.1	8368.2	9218.7	10253.7	10938.1	11039.6	10602.3	10080.2	9895.8	9938.2
60°	6881.3	6949.5	7381.2	8309.2	9759.2	11008.2	11303.4	11065.4	10519.3	10340.4	10379.1
62.5°	5403.6	5492.1	6008.7	7097.1	8715.1	10681.7	11528.5	11484.2	10914.1	10690.9	10716.7
65°	3466.5	3560.6	4104.8	5390.6	7322.2	9681.8	11598.6	11891.9	11331.1	11019.3	11058.0
67.5°	2090.2	2132.6	2402.0	3267.2	5351.9	8174.5	11004.5	12343.9	11818.1	11430.7	11460.2
70°	1337.5	1361.5	1522.0	1918.6	3025.6	5964.4	9532.3	12428.7	12408.4	11853.1	11849.5
72.5°	907.7	915.0	957.5	1136.4	1712.0	3389.0	7030.7	11251.7	12777.4	12397.4	12338.3
75°	664.1	704.7	773.0	804.4	972.2	1693.6	4029.1	7905.2	10768.4	10934.4	10532.2
77.5°	494.4	496.3	590.4	627.2	693.7	902.1	1704.6	4412.9	6685.7	7019.6	6261.4
80°	418.8	396.6	394.8	505.5	522.1	562.7	761.9	1523.8	2394.6	1451.9	1097.7
82.5°	348.7	324.7	293.3	394.8	356.1	345.0	330.2	619.9	761.9	374.5	319.2
85°	243.5	232.5	221.4	258.3	202.9	173.4	158.7	289.6	321.0	158.7	140.2
87.5°	105.2	108.8	110.7	114.4	84.9	60.9	60.9	81.2	81.2	62.7	46.1
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)