

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: P951760

Luminaire Tested: **GALN-SB5D-827-U-5MQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951760  
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-SB5D-827-U-5MQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

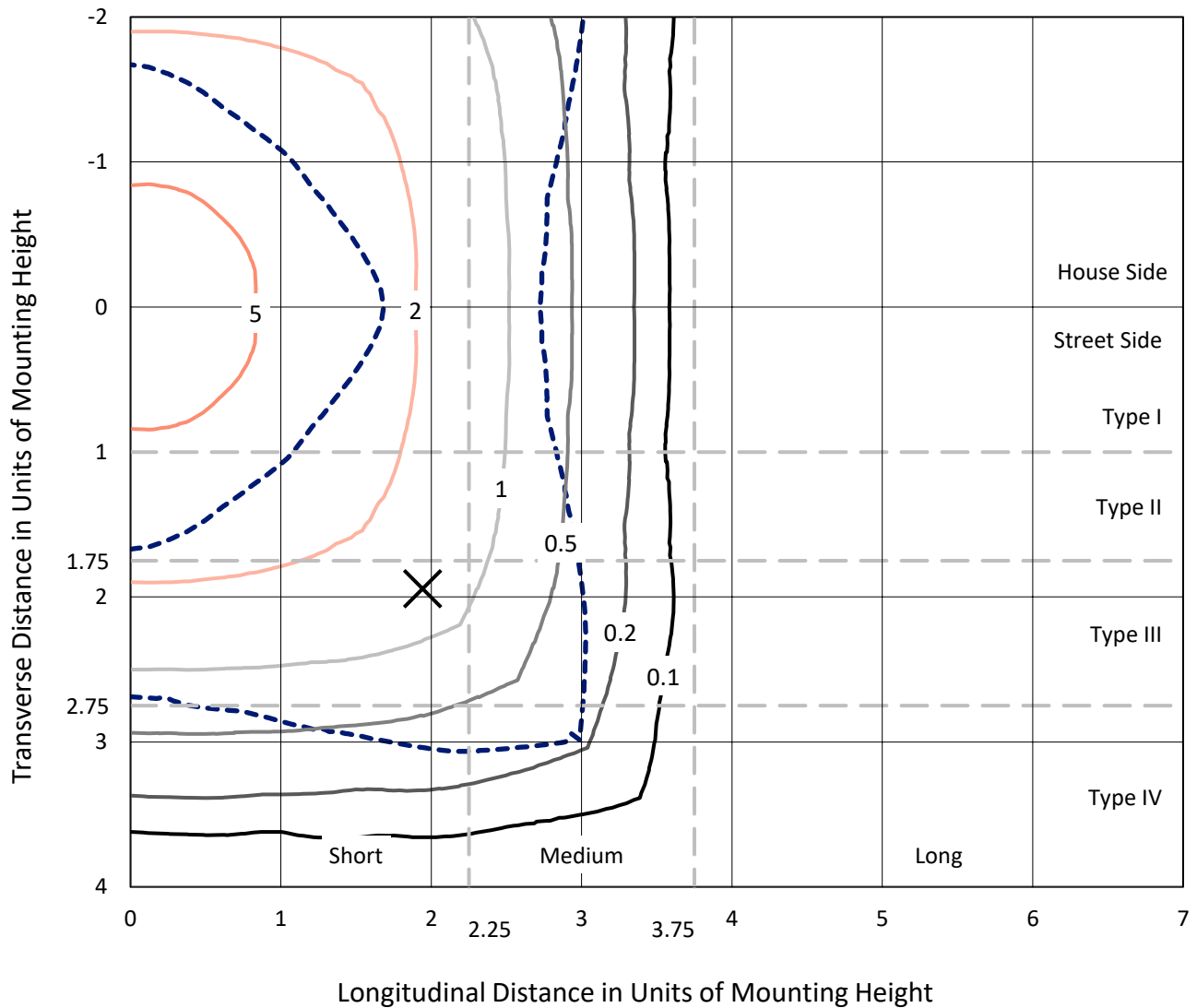
Lumens per Lamp: N/A  
Luminaire Lumens: 46811 lumens  
Efficiency: N/A  
Efficacy: 128.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4  
  
Input Watts (W): 364.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

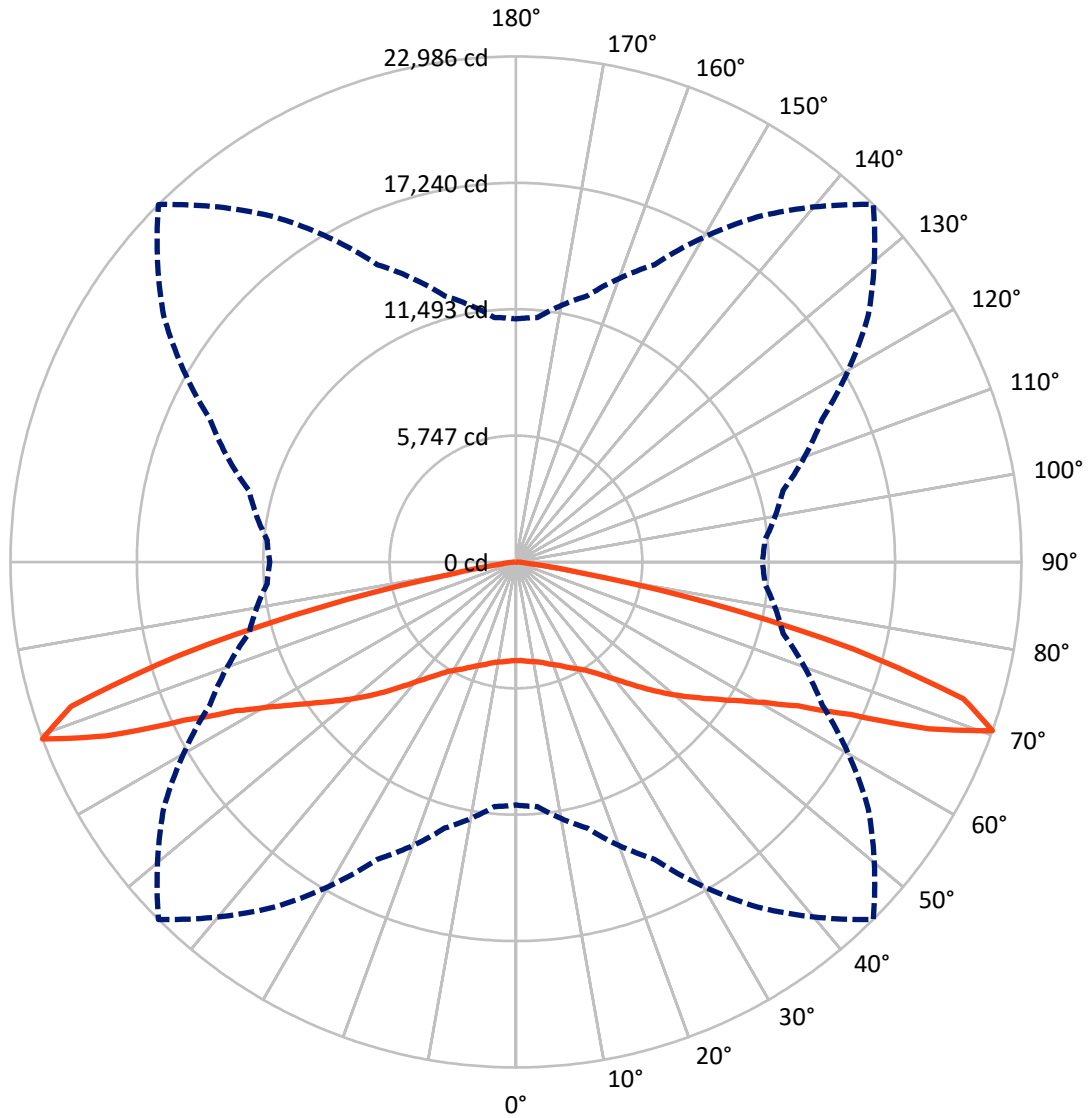
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 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	23405.5	0.0	23405.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	23405.5	0.0	23405.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	46811.0	0.0	46811.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	435.6	0.9
10°-20°	1350.8	2.9
20°-30°	2414.1	5.2
30°-40°	3913.2	8.4
40°-50°	6373.9	13.6
50°-60°	9718.0	20.8
60°-70°	14457.4	30.9
70°-80°	7879.7	16.8
80°-90°	268.3	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°	46811.0	100.0
0°-180°	46811.0	100.0



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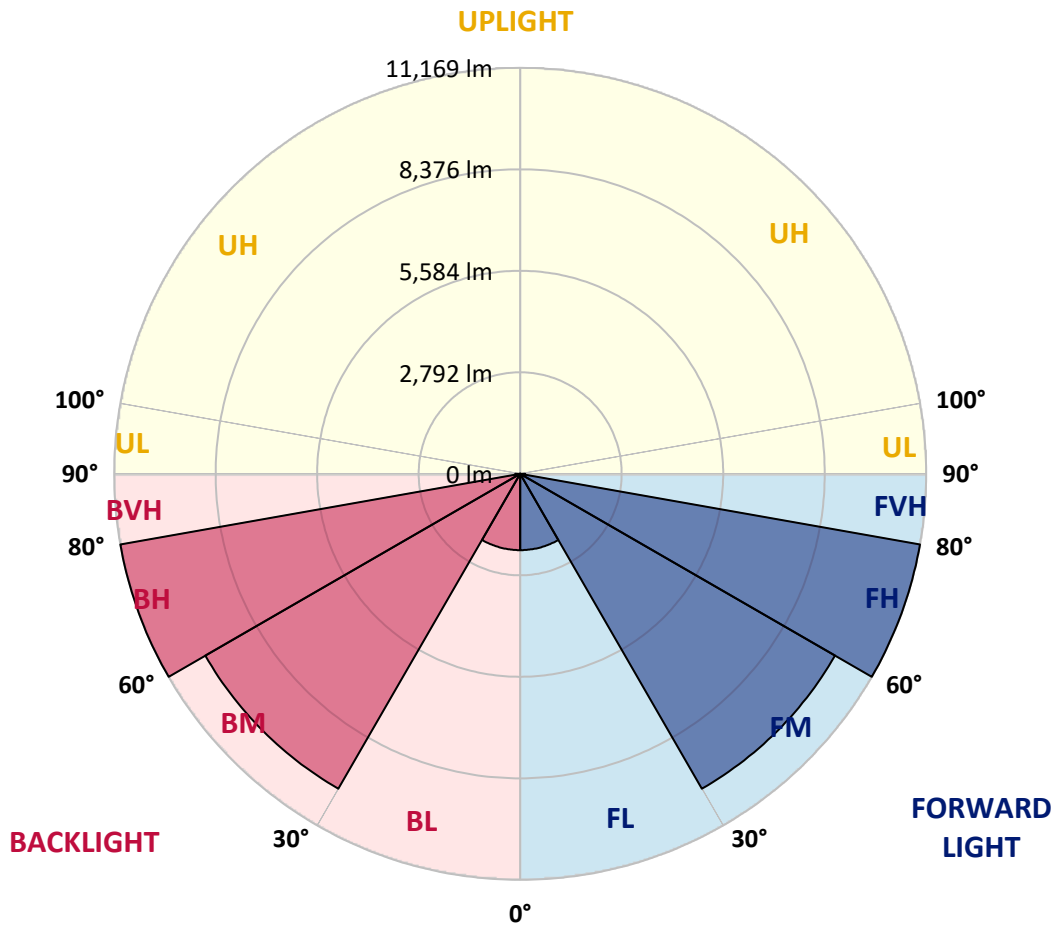
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2100.2	4.5			
FM (30°-60°)	10002.6	21.4			
FH (60°-80°)	11168.5	23.9			G4/12000
FVH (80°-90°)	134.2	0.3			G2/225
BL (0°-30°)	2100.2	4.5	B3/2500		
BM (30°-60°)	10002.6	21.4	B5		
BH (60°-80°)	11168.5	23.9	B5		G4/12000
BVH (80°-90°)	134.2	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°	4484.0	4484.0	4484.0	4484.0	4484.0	4484.0	4484.0	4484.0	4484.0	4484.0
2.5°	4505.2	4509.9	4500.5	4495.8	4491.1	4484.0	4486.4	4498.1	4507.5	4505.2
5°	4542.8	4547.5	4540.4	4538.1	4528.7	4526.3	4526.3	4538.1	4545.1	4540.4
7.5°	4585.1	4592.1	4580.4	4578.0	4573.3	4568.6	4566.3	4578.0	4585.1	4585.1
10°	4625.0	4632.1	4622.7	4615.6	4610.9	4610.9	4606.2	4615.6	4627.4	4625.0
12.5°	4667.3	4672.0	4662.6	4657.9	4657.9	4665.0	4657.9	4662.6	4672.0	4667.3
15°	4719.0	4721.4	4719.0	4726.1	4737.8	4761.3	4740.2	4735.5	4740.2	4728.4
17.5°	4789.5	4794.2	4803.6	4820.1	4836.5	4878.8	4841.2	4829.5	4829.5	4806.0
20°	4876.5	4883.5	4897.6	4925.8	4947.0	4986.9	4949.3	4932.9	4925.8	4895.3
22.5°	4968.1	4979.9	5001.0	5038.6	5076.2	5113.8	5076.2	5048.0	5026.9	4986.9
25°	5073.9	5088.0	5120.9	5182.0	5233.7	5287.7	5243.1	5186.7	5144.4	5088.0
27.5°	5224.3	5240.7	5280.7	5355.9	5421.7	5468.7	5426.4	5353.5	5294.8	5226.6
30°	5435.8	5452.3	5499.3	5579.2	5623.8	5654.4	5626.2	5569.8	5499.3	5421.7
32.5°	5708.4	5729.6	5781.3	5856.5	5865.9	5870.6	5861.2	5833.0	5781.3	5687.3
35°	6053.9	6077.4	6136.1	6197.2	6187.8	6197.2	6183.1	6173.7	6136.1	6028.0
37.5°	6476.9	6505.1	6566.2	6613.2	6589.7	6578.0	6580.3	6582.7	6561.5	6441.7
40°	6968.1	7005.7	7050.3	7099.7	7059.7	7024.5	7048.0	7066.8	7048.0	6925.8
42.5°	7473.3	7527.4	7574.4	7644.9	7612.0	7567.4	7600.3	7621.4	7581.5	7449.8
45°	8035.0	8086.7	8147.8	8253.6	8230.1	8183.1	8230.1	8234.8	8166.6	8011.5
47.5°	8615.5	8669.6	8761.2	8902.2	8892.8	8841.1	8902.2	8869.3	8782.4	8596.7
50°	9165.4	9240.6	9381.6	9579.0	9597.8	9534.4	9616.6	9553.2	9407.5	9174.8
52.5°	9682.5	9762.4	9985.6	10253.5	10321.7	10239.4	10349.9	10239.4	10020.9	9722.4
55°	10225.3	10314.6	10580.2	10930.4	11066.7	11005.6	11109.0	10942.1	10631.9	10270.0
57.5°	10864.6	10918.6	11235.9	11651.8	11882.2	11896.3	11943.3	11661.2	11285.2	10874.0
60°	11557.8	11633.0	11978.5	12476.7	12841.0	12958.5	12909.2	12490.8	12053.7	11581.3
62.5°	12446.2	12528.4	12942.1	13539.0	14114.8	14406.2	14213.5	13607.1	13066.6	12500.2
65°	13181.8	13273.4	14020.8	15085.4	16133.5	16718.7	16234.6	15118.3	14145.3	13346.3
67.5°	12648.3	12761.1	13933.8	15889.1	18495.4	20241.5	18584.7	16128.8	14222.9	13139.5
70°	11054.9	11160.7	12528.4	14918.5	19160.4	22986.4	19560.0	15358.0	12573.1	11360.4
72.5°	7339.4	7680.2	9064.4	11931.5	17108.8	21270.8	17278.0	11689.4	8408.7	7322.9
75°	2434.7	2707.3	3652.1	6185.5	11459.1	15907.9	10909.2	5473.4	2893.0	2082.2
77.5°	613.4	707.4	975.3	1769.6	4571.0	9057.3	4115.0	1445.3	787.3	549.9
80°	298.5	329.0	470.0	589.9	1144.5	2878.9	1074.0	554.6	371.3	286.7
82.5°	164.5	166.9	265.6	333.7	425.4	745.0	441.8	324.3	213.9	173.9
85°	101.1	98.7	141.0	178.6	178.6	265.6	211.5	178.6	122.2	108.1
87.5°	40.0	40.0	51.7	56.4	49.4	68.2	54.1	58.8	47.0	44.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
4484.0
4507.5
4542.8
4585.1
4625.0
4665.0
4728.4
4806.0
4895.3
4984.6
5085.6
5224.3
5421.7
5689.6
6028.0
6441.7
6925.8
7459.2
8028.0
8585.0
9170.1
9694.2
10220.6
10817.6
11506.1
12401.5
13214.7
12977.3
11198.3
7085.6
1969.4
491.2
263.2
173.9
112.8
47.0
0.0

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