

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: P950332

Luminaire Tested: **GALN-SB4D-827-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950332
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-SB4D-827-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 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: 37140 lumens
Efficiency: N/A
Efficacy: 126.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

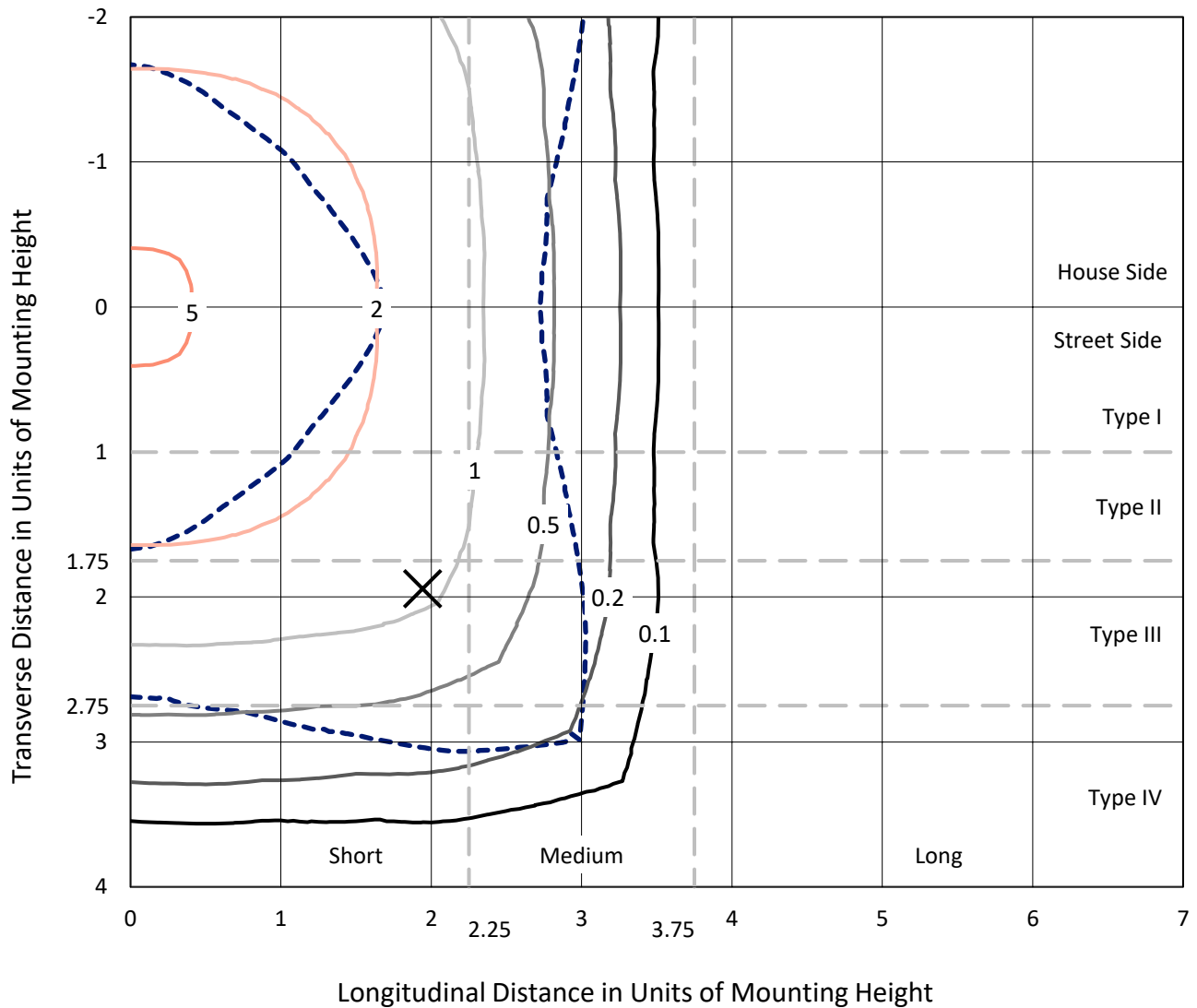
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

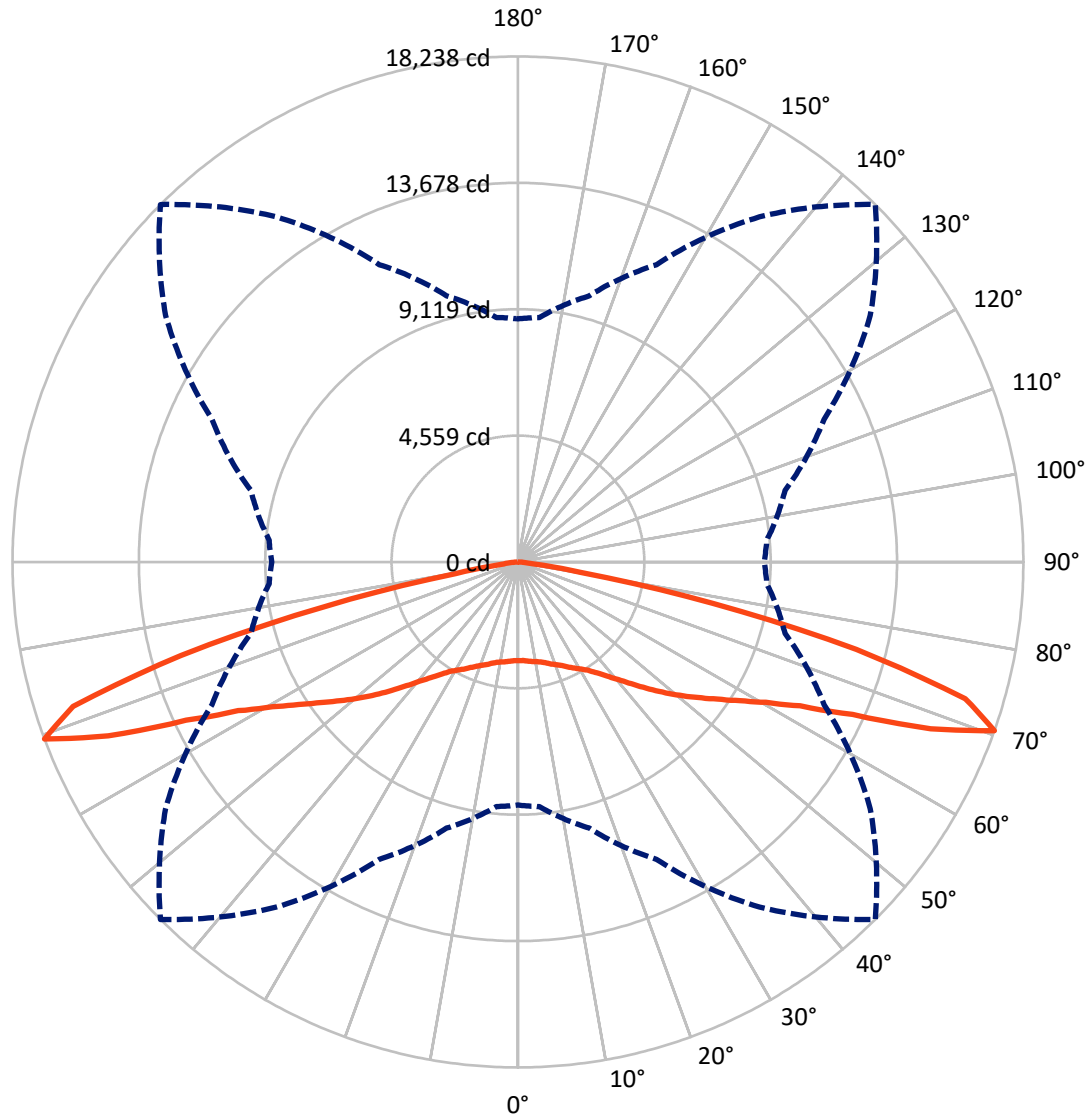
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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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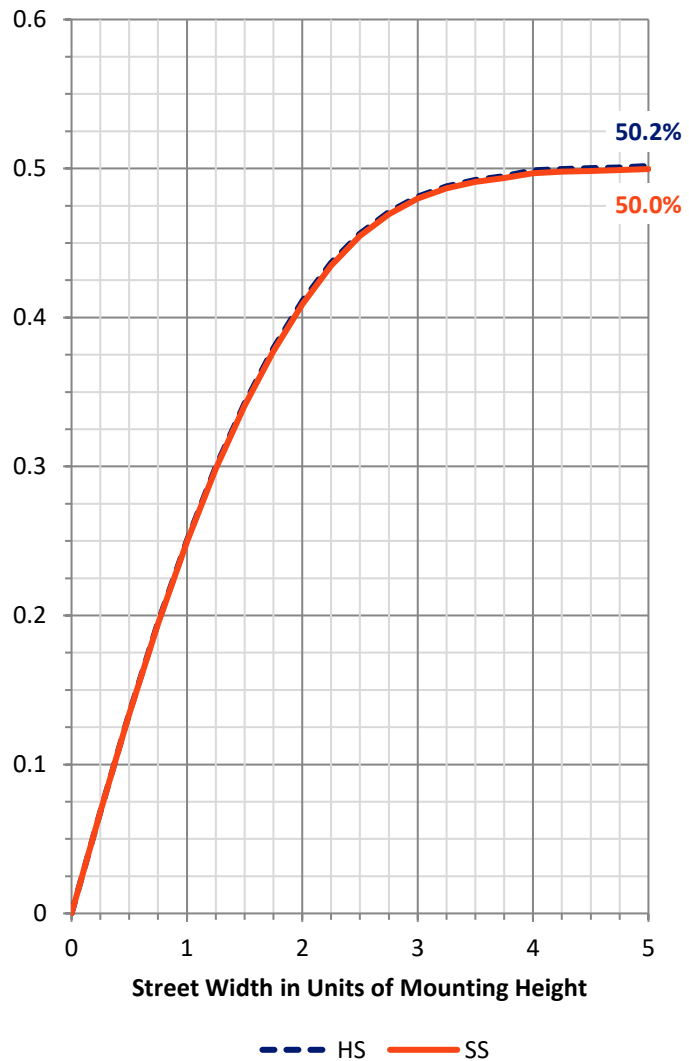
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18570.0	0.0	18570.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18570.0	0.0	18570.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	37140.0	0.0	37140.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	345.6	0.9
10°-20°	1071.7	2.9
20°-30°	1915.3	5.2
30°-40°	3104.7	8.4
40°-50°	5057.1	13.6
50°-60°	7710.3	20.8
60°-70°	11470.5	30.9
70°-80°	6251.8	16.8
80°-90°	212.9	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°	37140.0	100.0
0°-180°	37140.0	100.0

Coefficient of Utilization



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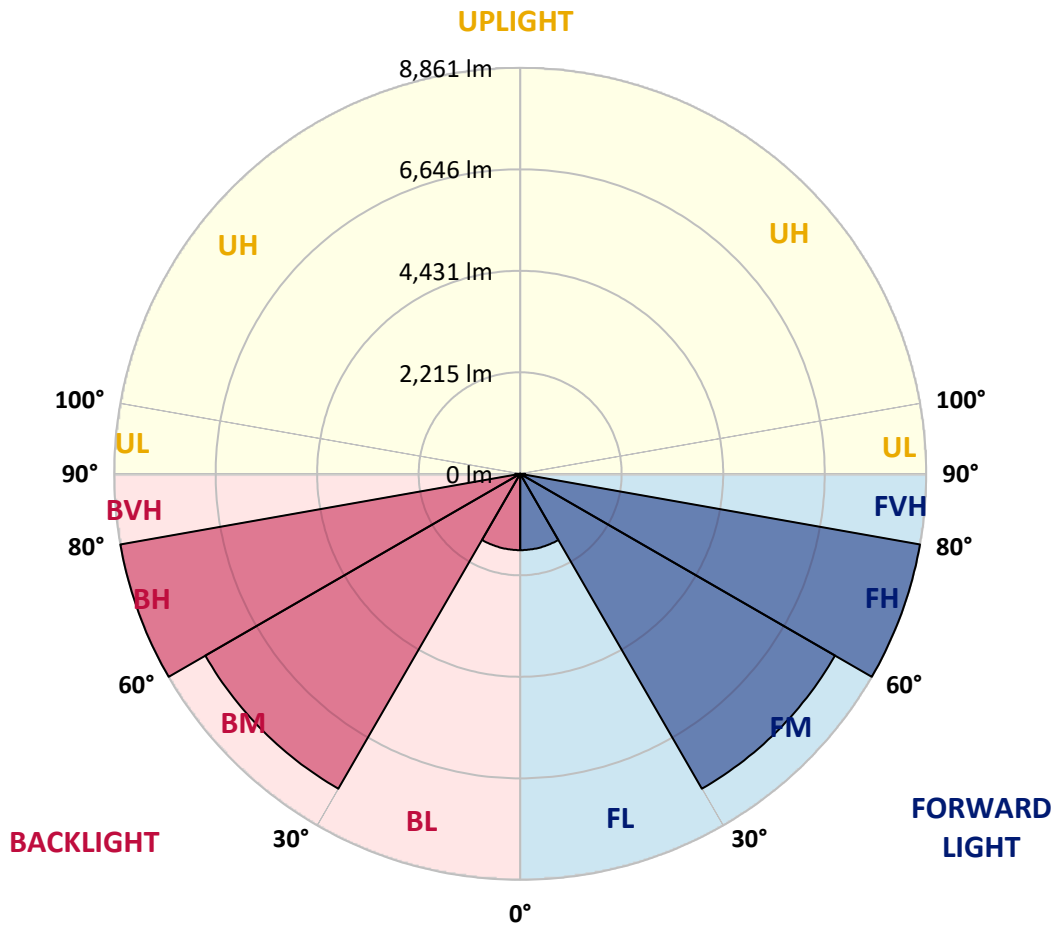
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1666.3	4.5			
FM (30°-60°)	7936.1	21.4			
FH (60°-80°)	8861.2	23.9			G4/12000
FVH (80°-90°)	106.4	0.3			G2/225
BL (0°-30°)	1666.3	4.5	B3/2500		
BM (30°-60°)	7936.1	21.4	B4/8500		
BH (60°-80°)	8861.2	23.9	B5		G4/12000
BVH (80°-90°)	106.4	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°	3557.6	3557.6	3557.6	3557.6	3557.6	3557.6	3557.6	3557.6	3557.6	3557.6
2.5°	3574.4	3578.1	3570.7	3567.0	3563.2	3557.6	3559.5	3568.8	3576.3	3574.4
5°	3604.2	3608.0	3602.4	3600.5	3593.1	3591.2	3591.2	3600.5	3606.1	3602.4
7.5°	3637.8	3643.4	3634.1	3632.2	3628.5	3624.8	3622.9	3632.2	3637.8	3637.8
10°	3669.5	3675.1	3667.6	3662.0	3658.3	3658.3	3654.6	3662.0	3671.4	3669.5
12.5°	3703.1	3706.8	3699.3	3695.6	3695.6	3701.2	3695.6	3699.3	3706.8	3703.1
15°	3744.1	3746.0	3744.1	3749.7	3759.0	3777.6	3760.9	3757.1	3760.9	3751.5
17.5°	3800.0	3803.8	3811.2	3824.3	3837.3	3870.9	3841.0	3831.7	3831.7	3813.1
20°	3869.0	3874.6	3885.8	3908.2	3925.0	3956.6	3926.8	3913.8	3908.2	3883.9
22.5°	3941.7	3951.1	3967.8	3997.7	4027.5	4057.3	4027.5	4005.1	3988.3	3956.6
25°	4025.6	4036.8	4062.9	4111.4	4152.4	4195.3	4159.9	4115.1	4081.6	4036.8
27.5°	4145.0	4158.0	4189.7	4249.4	4301.6	4338.9	4305.3	4247.5	4200.9	4146.8
30°	4312.8	4325.8	4363.1	4426.5	4462.0	4486.2	4463.8	4419.1	4363.1	4301.6
32.5°	4529.1	4545.9	4586.9	4646.5	4654.0	4657.7	4650.3	4627.9	4586.9	4512.3
35°	4803.2	4821.8	4868.4	4916.9	4909.5	4916.9	4905.7	4898.3	4868.4	4782.7
37.5°	5138.8	5161.2	5209.6	5246.9	5228.3	5219.0	5220.8	5222.7	5205.9	5110.8
40°	5528.5	5558.3	5593.8	5632.9	5601.2	5573.2	5591.9	5606.8	5591.9	5494.9
42.5°	5929.4	5972.3	6009.6	6065.5	6039.4	6004.0	6030.1	6046.8	6015.2	5910.7
45°	6375.0	6416.0	6464.5	6548.4	6529.8	6492.5	6529.8	6533.5	6479.4	6356.4
47.5°	6835.6	6878.5	6951.2	7063.0	7055.6	7014.6	7063.0	7036.9	6968.0	6820.7
50°	7271.9	7331.5	7443.4	7600.0	7615.0	7564.6	7629.9	7579.5	7463.9	7279.3
52.5°	7682.1	7745.5	7922.6	8135.2	8189.3	8124.0	8211.6	8124.0	7950.6	7713.8
55°	8112.8	8183.7	8394.4	8672.2	8780.3	8731.9	8813.9	8681.5	8435.4	8148.2
57.5°	8620.0	8662.9	8914.6	9244.6	9427.3	9438.5	9475.8	9252.1	8953.7	8627.4
60°	9170.0	9229.7	9503.8	9899.1	10188.1	10281.3	10242.2	9910.3	9563.5	9188.7
62.5°	9874.8	9940.1	10268.3	10741.9	11198.7	11429.9	11277.0	10795.9	10367.1	9917.7
65°	10458.5	10531.2	11124.1	11968.8	12800.4	13264.7	12880.6	11994.9	11222.9	10589.0
67.5°	10035.2	10124.7	11055.1	12606.5	14674.3	16059.7	14745.1	12796.6	11284.5	10424.9
70°	8771.0	8854.9	9940.1	11836.4	15202.0	18237.5	15518.9	12185.1	9975.5	9013.4
72.5°	5823.1	6093.5	7191.7	9466.5	13574.2	16876.4	13708.4	9274.4	6671.5	5810.0
75°	1931.7	2148.0	2897.6	4907.6	9091.7	12621.4	8655.4	4342.6	2295.3	1652.0
77.5°	486.7	561.2	773.8	1404.0	3626.6	7186.1	3264.9	1146.7	624.6	436.3
80°	236.8	261.0	372.9	468.0	908.1	2284.1	852.1	440.0	294.6	227.5
82.5°	130.5	132.4	210.7	264.8	337.5	591.1	350.5	257.3	169.7	138.0
85°	80.2	78.3	111.9	141.7	141.7	210.7	167.8	141.7	97.0	85.8
87.5°	31.7	31.7	41.0	44.8	39.2	54.1	42.9	46.6	37.3	35.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
3557.6
3576.3
3604.2
3637.8
3669.5
3701.2
3751.5
3813.1
3883.9
3954.8
4035.0
4145.0
4301.6
4514.2
4782.7
5110.8
5494.9
5918.2
6369.4
6811.3
7275.6
7691.4
8109.1
8582.7
9129.0
9839.4
10484.6
10296.2
8884.7
5621.7
1562.5
389.7
208.8
138.0
89.5
37.3
0.0

OF REPORT)