

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: P955204

Luminaire Tested: **GALN-SB8B-727-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955204
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-SB8B-727-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44230 lumens
Efficiency: N/A
Efficacy: 151.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 292.8
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



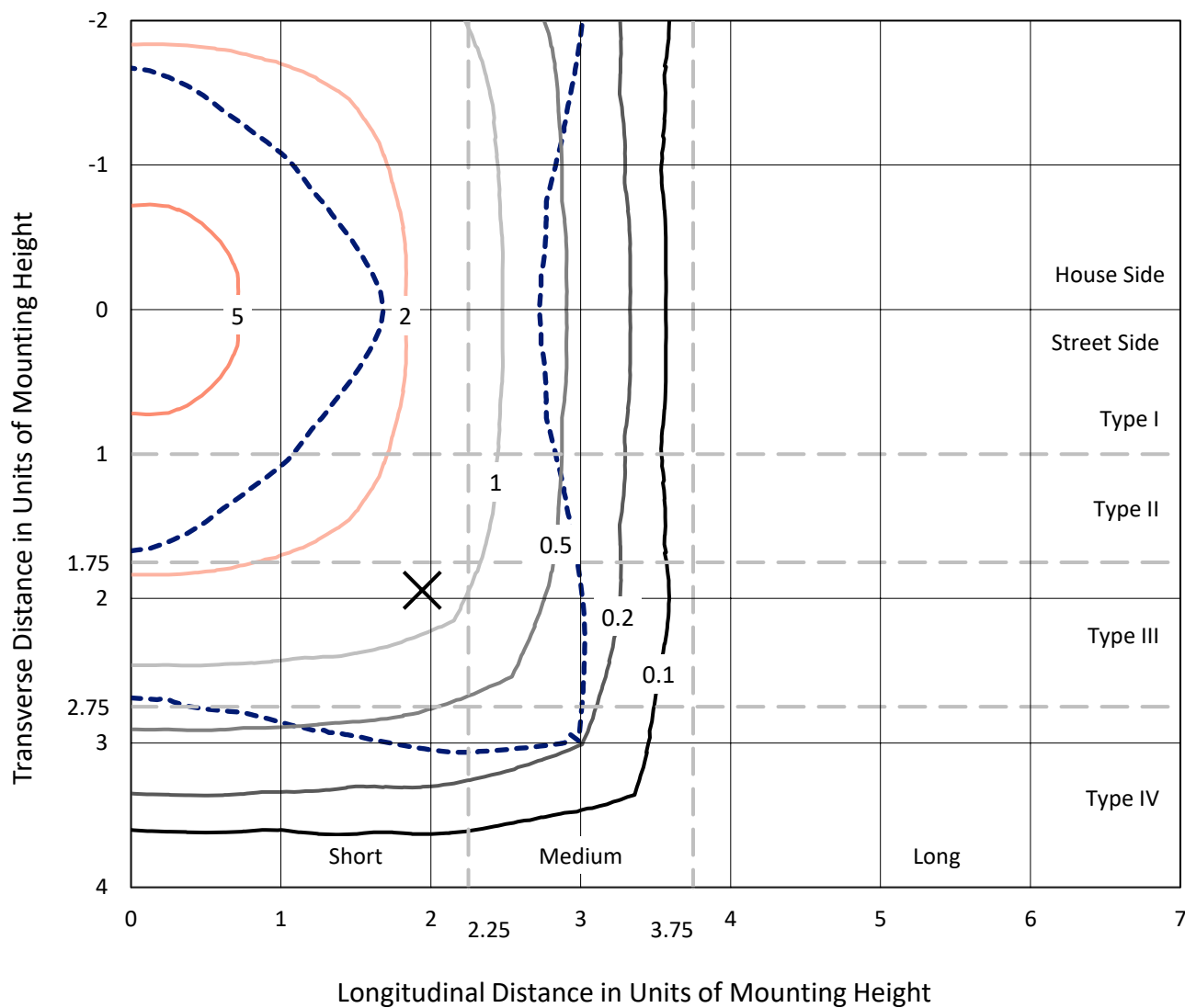
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

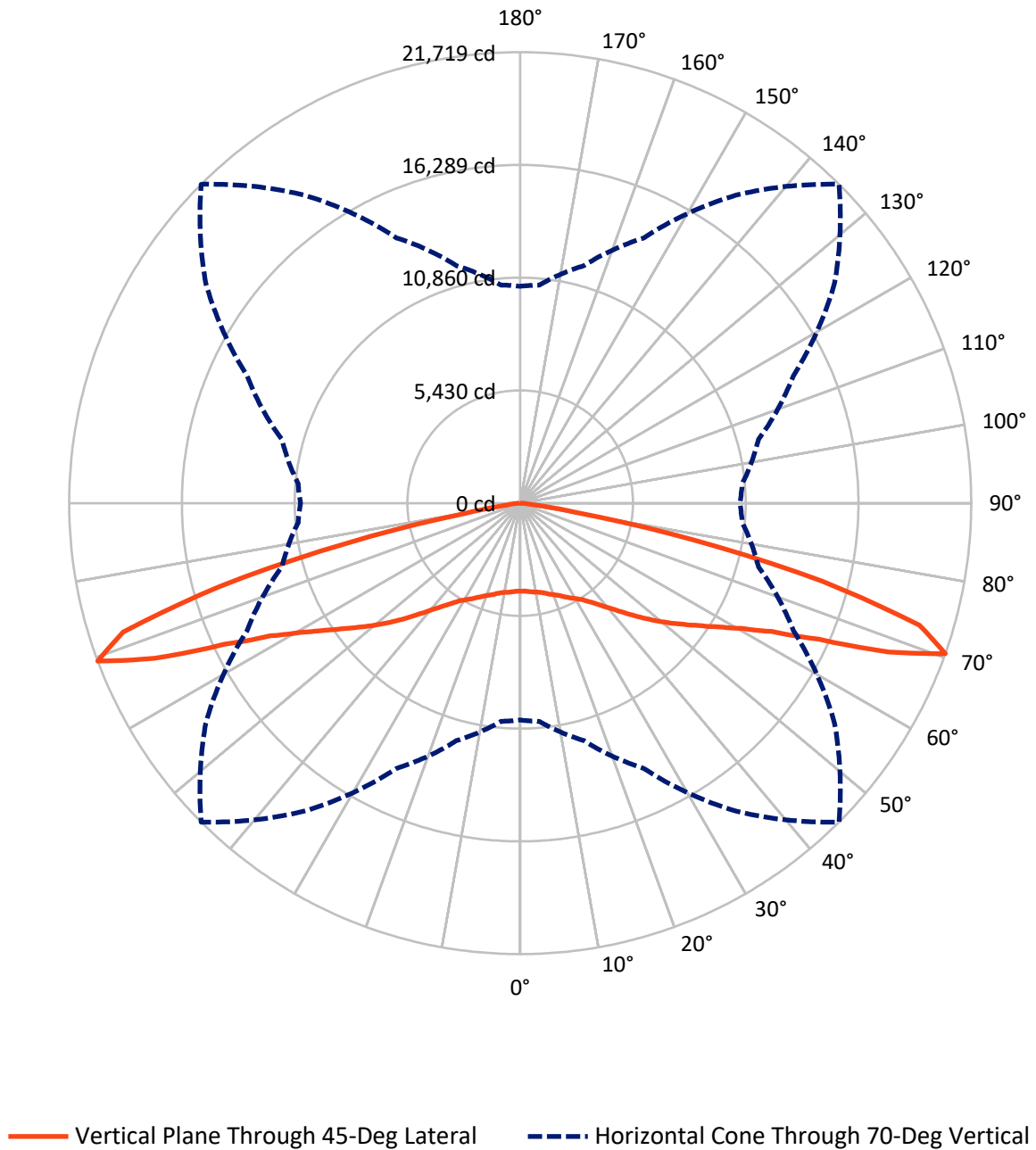


Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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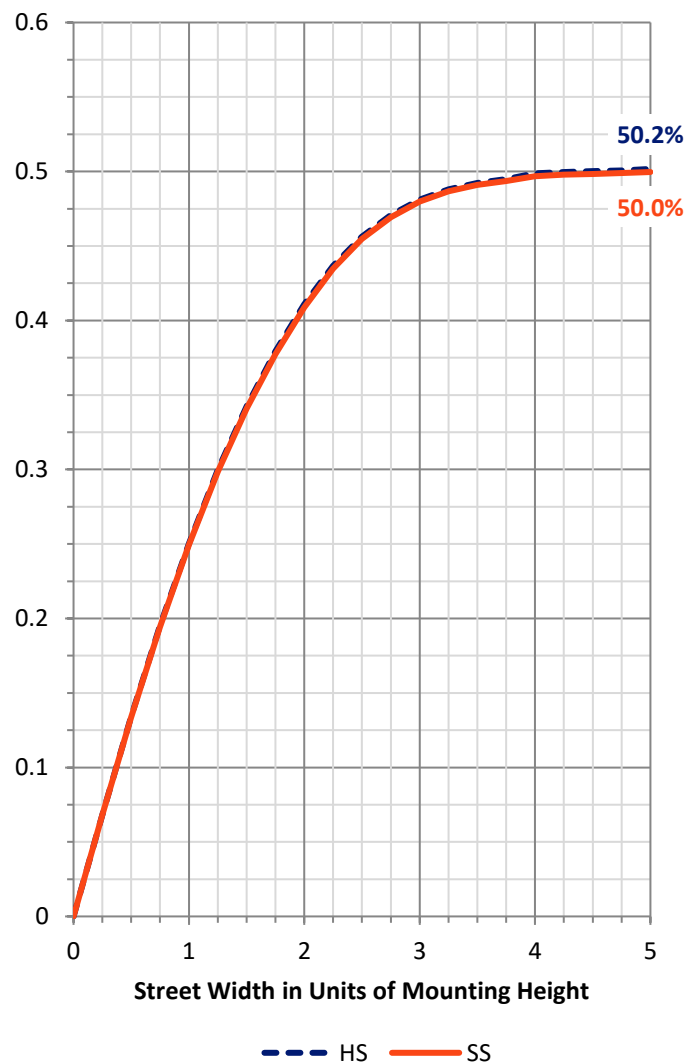
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	22115.0	0.0	22115.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	22115.0	0.0	22115.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	44230.0	0.0	44230.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	411.6	0.9
10°-20°	1276.3	2.9
20°-30°	2281.0	5.2
30°-40°	3697.4	8.4
40°-50°	6022.5	13.6
50°-60°	9182.2	20.8
60°-70°	13660.2	30.9
70°-80°	7445.3	16.8
80°-90°	253.5	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°	44230.0	100.0
0°-180°	44230.0	100.0

Coefficient of Utilization



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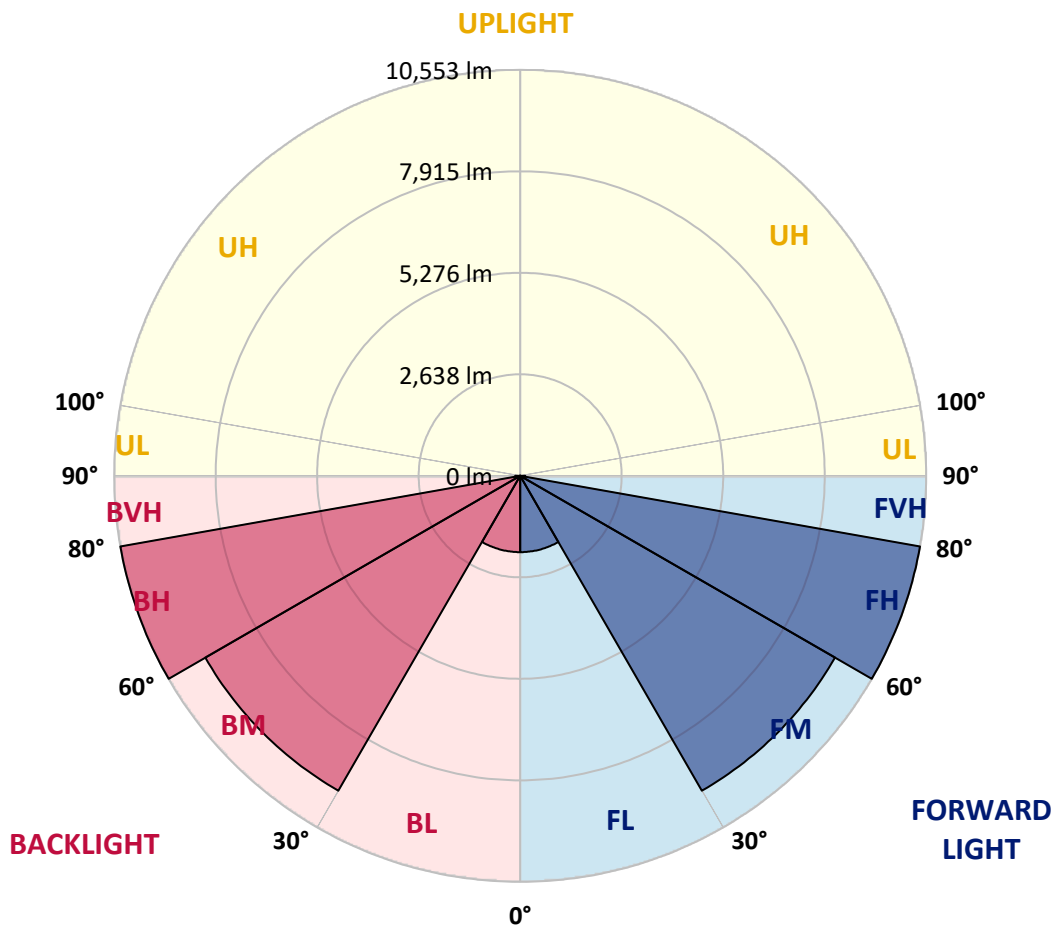
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1984.4	4.5			
FM	(30°-60°)	9451.0	21.4			
FH	(60°-80°)	10552.7	23.9			G4/12000
FVH	(80°-90°)	126.8	0.3			G2/225
BL	(0°-30°)	1984.4	4.5	B3/2500		
BM	(30°-60°)	9451.0	21.4	B5		
BH	(60°-80°)	10552.7	23.9	B5		G4/12000
BVH	(80°-90°)	126.8	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°	90°
0°	4236.8	4236.8	4236.8	4236.8	4236.8	4236.8	4236.8	4236.8	4236.8	4236.8	4236.8
2.5°	4256.8	4261.2	4252.3	4247.9	4243.4	4236.8	4239.0	4250.1	4259.0	4256.8	4259.0
5°	4292.3	4296.7	4290.1	4287.8	4279.0	4276.7	4276.7	4287.8	4294.5	4290.1	4292.3
7.5°	4332.3	4338.9	4327.8	4325.6	4321.2	4316.7	4314.5	4325.6	4332.3	4332.3	4332.3
10°	4370.0	4376.7	4367.8	4361.1	4356.7	4356.7	4352.2	4361.1	4372.2	4370.0	4370.0
12.5°	4410.0	4414.4	4405.5	4401.1	4401.1	4407.8	4401.1	4405.5	4414.4	4410.0	4407.8
15°	4458.8	4461.1	4458.8	4465.5	4476.6	4498.8	4478.8	4474.4	4478.8	4467.7	4467.7
17.5°	4525.4	4529.9	4538.8	4554.3	4569.9	4609.8	4574.3	4563.2	4563.2	4541.0	4541.0
20°	4607.6	4614.3	4627.6	4654.2	4674.2	4712.0	4676.4	4660.9	4654.2	4625.4	4625.4
22.5°	4694.2	4705.3	4725.3	4760.8	4796.4	4831.9	4796.4	4769.7	4749.7	4712.0	4709.7
25°	4794.1	4807.5	4838.5	4896.3	4945.1	4996.2	4954.0	4900.7	4860.7	4807.5	4805.2
27.5°	4936.2	4951.8	4989.5	5060.6	5122.8	5167.2	5127.2	5058.4	5002.9	4938.5	4936.2
30°	5136.1	5151.6	5196.0	5271.5	5313.7	5342.6	5316.0	5262.7	5196.0	5122.8	5122.8
32.5°	5393.7	5413.7	5462.5	5533.6	5542.4	5546.9	5538.0	5511.4	5462.5	5373.7	5375.9
35°	5720.1	5742.3	5797.8	5855.5	5846.7	5855.5	5842.2	5833.3	5797.8	5695.7	5695.7
37.5°	6119.8	6146.4	6204.2	6248.6	6226.4	6215.3	6217.5	6219.7	6199.7	6086.5	6086.5
40°	6583.9	6619.4	6661.6	6708.2	6670.5	6637.2	6659.4	6677.1	6659.4	6543.9	6543.9
42.5°	7061.3	7112.4	7156.8	7223.4	7192.3	7150.1	7181.2	7201.2	7163.4	7039.1	7048.0
45°	7592.0	7640.9	7698.6	7798.5	7776.3	7731.9	7776.3	7780.7	7716.4	7569.8	7585.3
47.5°	8140.5	8191.5	8278.1	8411.4	8402.5	8353.6	8411.4	8380.3	8298.1	8122.7	8111.6
50°	8660.1	8731.1	8864.4	9050.9	9068.7	9008.7	9086.4	9026.5	8888.8	8669.0	8664.5
52.5°	9148.6	9224.1	9435.0	9688.2	9752.6	9674.9	9779.2	9674.9	9468.4	9186.3	9159.7
55°	9661.5	9745.9	9996.8	10327.7	10456.5	10398.8	10496.5	10338.8	10045.7	9703.7	9657.1
57.5°	10265.5	10316.6	10616.4	11009.4	11227.0	11240.3	11284.7	11018.3	10663.0	10274.4	10221.1
60°	10920.6	10991.6	11318.1	11788.8	12133.0	12244.0	12197.4	11802.1	11389.1	10942.8	10871.7
62.5°	11759.9	11837.7	12228.5	12792.5	13336.5	13611.9	13429.8	12856.9	12346.2	11811.0	11717.8
65°	12455.0	12541.6	13247.7	14253.6	15244.0	15796.9	15339.4	14284.7	13365.4	12610.4	12486.1
67.5°	11950.9	12057.5	13165.5	15013.0	17475.6	19125.4	17560.0	15239.5	13438.7	12415.0	12261.8
70°	10445.4	10545.3	11837.7	14095.9	18104.0	21719.0	18481.5	14511.2	11879.8	10734.1	10580.8
72.5°	6934.7	7256.7	8564.6	11273.6	16165.5	20098.0	16325.4	11044.9	7945.1	6919.2	6694.9
75°	2300.5	2558.1	3450.7	5844.4	10827.3	15030.8	10307.7	5171.6	2733.5	1967.4	1860.8
77.5°	579.6	668.4	921.5	1672.1	4318.9	8557.9	3888.2	1365.6	743.9	519.6	464.1
80°	282.0	310.9	444.1	557.4	1081.4	2720.2	1014.8	524.0	350.8	270.9	248.7
82.5°	155.4	157.7	250.9	315.3	401.9	703.9	417.5	306.4	202.1	164.3	164.3
85°	95.5	93.3	133.2	168.8	168.8	250.9	199.8	168.8	115.5	102.1	106.6
87.5°	37.7	37.7	48.9	53.3	46.6	64.4	51.1	55.5	44.4	42.2	44.4
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)