

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: P943823

Luminaire Tested: **GALN-SB8C-727-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943823
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8C-727-U-T1
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55567 lumens
Efficiency: N/A
Efficacy: 139.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 399.8
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



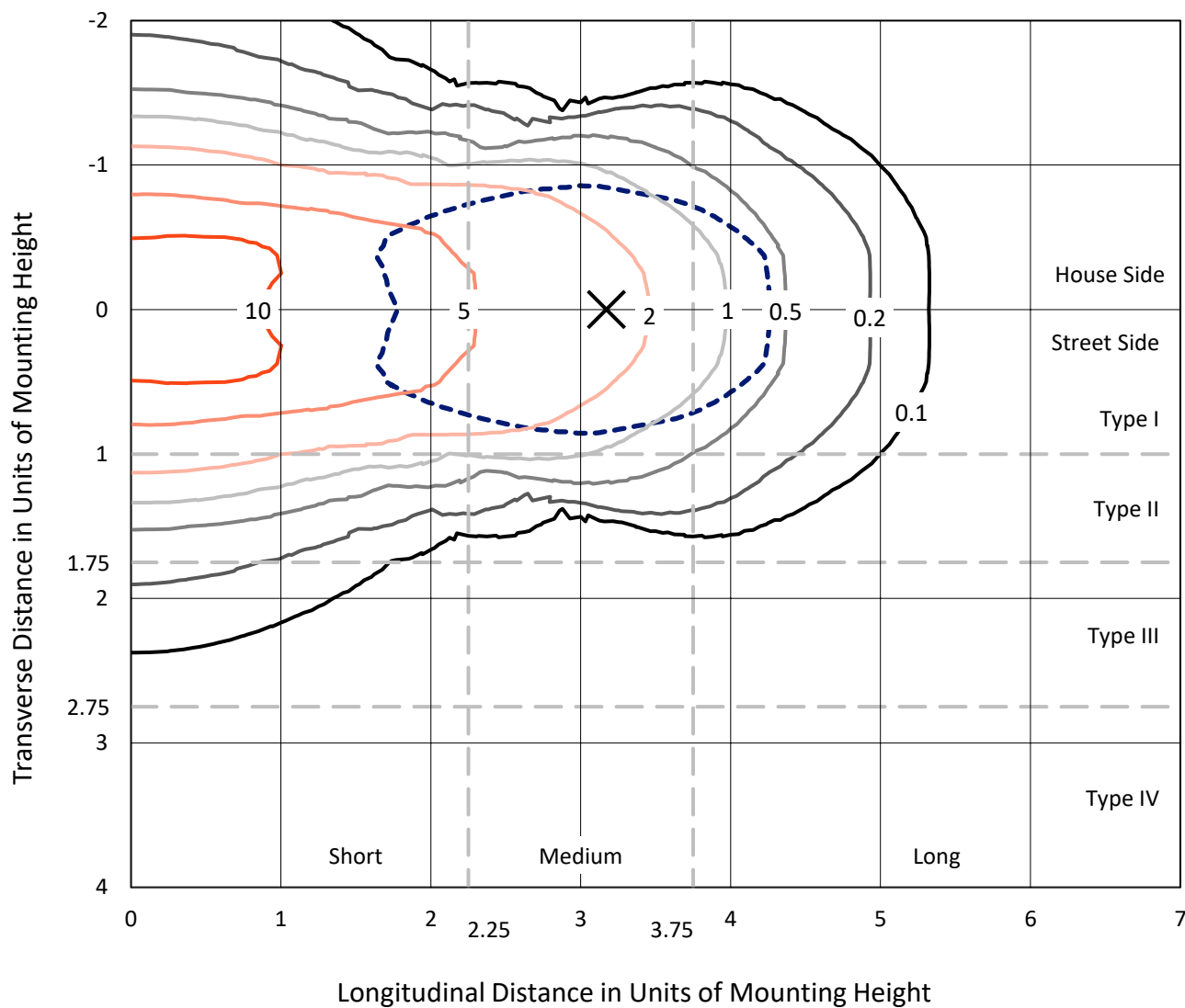
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Iso-Footcandle Lines of Horizontal Illumination

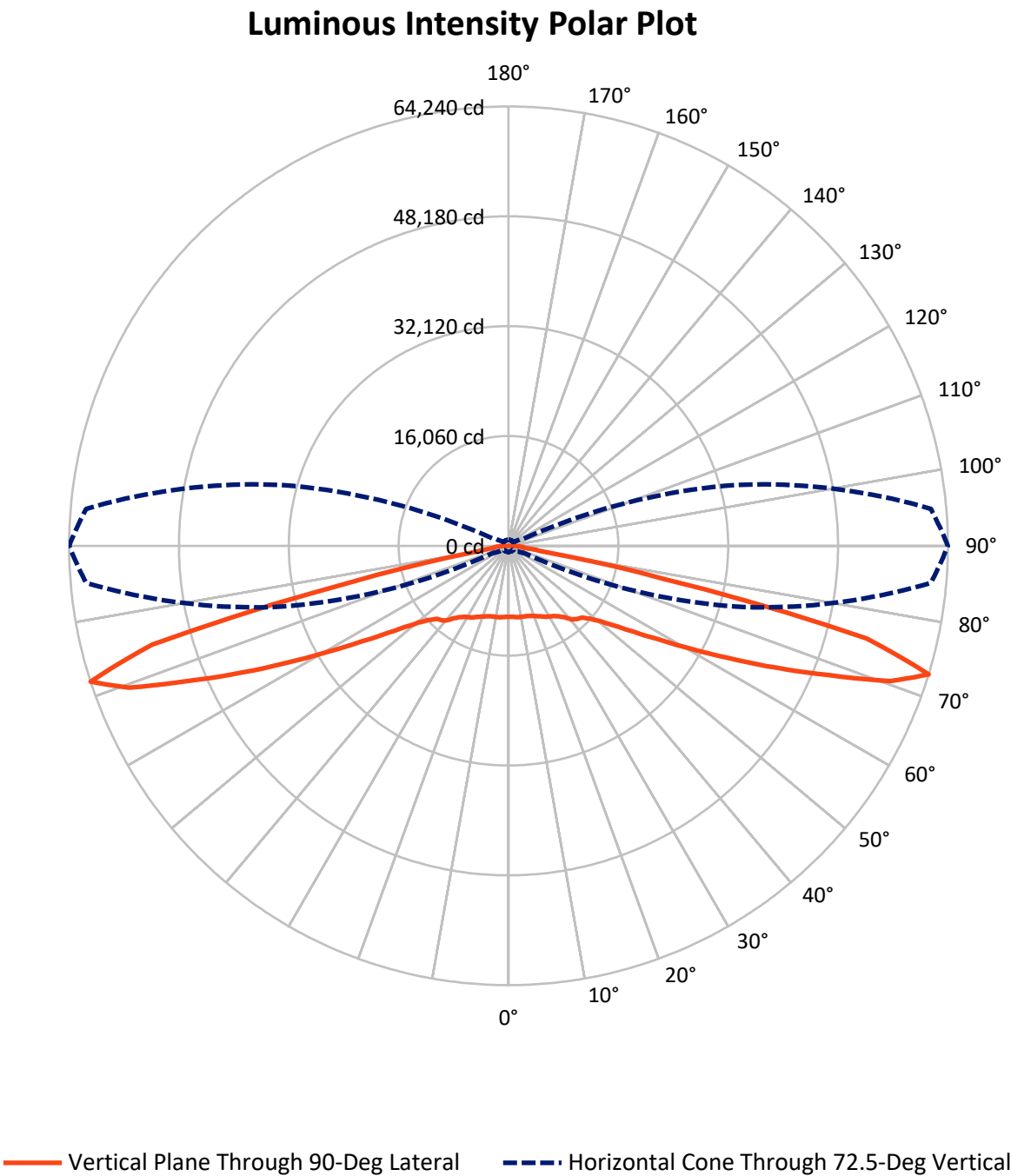
× Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.6 fc
Type I - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	27783.5	0.0	27783.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	27783.5	0.0	27783.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	55567.0	0.0	55567.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1006.8	1.8
10°-20°	3078.3	5.5
20°-30°	5132.9	9.2
30°-40°	7059.3	12.7
40°-50°	8621.3	15.5
50°-60°	9971.5	17.9
60°-70°	11889.3	21.4
70°-80°	8298.0	14.9
80°-90°	509.7	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°	55567.0	100.0
0°-180°	55567.0	100.0

Coefficient of Utilization



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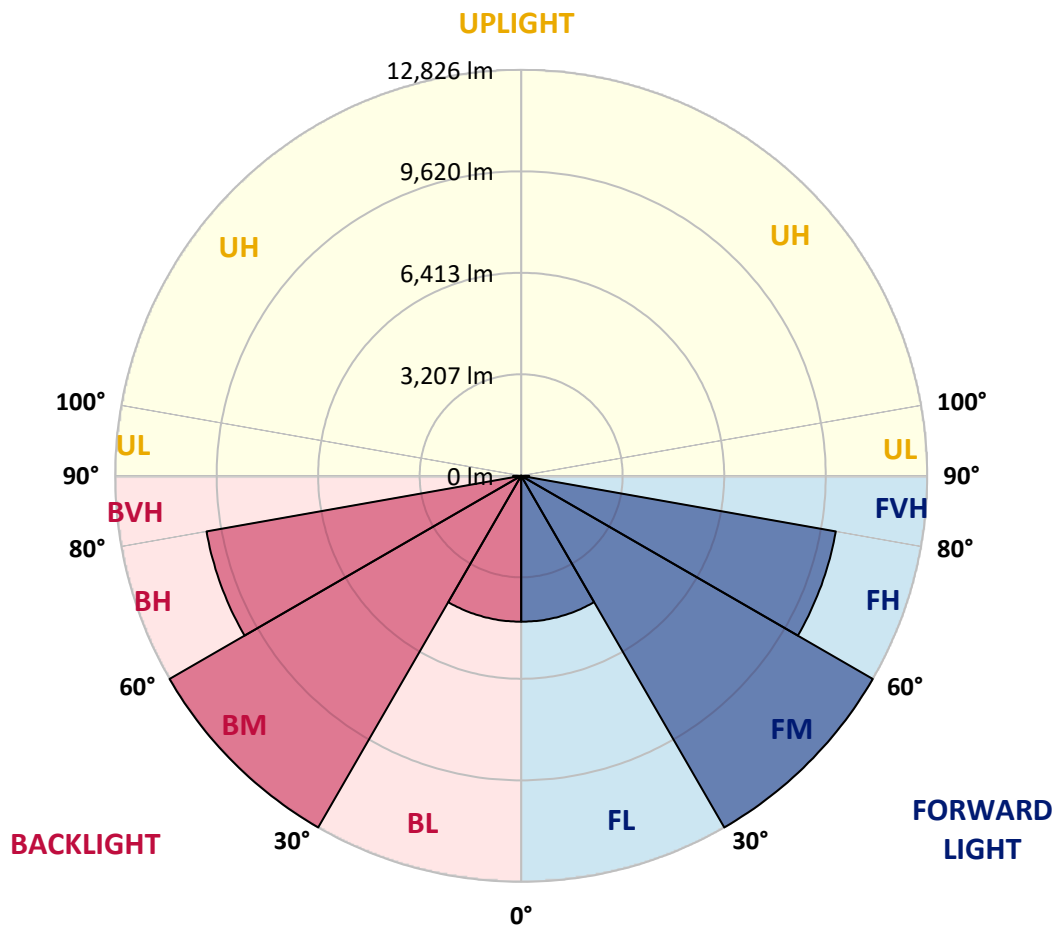
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4609.0	8.3			
FM	(30°-60°)	12826.0	23.1			
FH	(60°-80°)	10093.6	18.2			G4/12000
FVH	(80°-90°)	254.8	0.5			G3/500
BL	(0°-30°)	4609.0	8.3	B4/5000		
BM	(30°-60°)	12826.0	23.1	B5		
BH	(60°-80°)	10093.6	18.2	B5		G5
BVH	(80°-90°)	254.8	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	10383.3	10383.3	10383.3	10383.3	10383.3	10383.3	10383.3	10383.3	10383.3	10383.3	10383.3
2.5°	10392.1	10404.0	10404.0	10395.1	10415.8	10398.0	10398.0	10389.2	10398.0	10389.2	10389.2
5°	10445.3	10460.1	10466.0	10463.0	10489.6	10474.8	10474.8	10463.0	10466.0	10457.1	10457.1
7.5°	10545.7	10566.4	10578.2	10593.0	10631.3	10613.6	10601.8	10566.4	10551.6	10528.0	10528.0
10°	10578.2	10601.8	10640.2	10717.0	10805.6	10808.5	10773.1	10684.5	10616.6	10563.4	10554.6
12.5°	10477.8	10510.3	10590.0	10746.5	10944.4	11024.1	10968.0	10820.3	10687.5	10593.0	10578.2
15°	10350.8	10386.2	10507.3	10743.6	11035.9	11222.0	11216.1	11021.2	10808.5	10660.9	10637.3
17.5°	10152.9	10188.4	10362.6	10693.4	11106.8	11413.9	11496.6	11295.8	10997.5	10799.7	10767.2
20°	9795.6	9828.1	10070.2	10533.9	11130.4	11617.7	11833.3	11656.1	11284.0	11015.3	10965.1
22.5°	9332.0	9382.2	9665.7	10259.2	11074.3	11830.3	12217.2	12096.1	11617.7	11245.6	11177.7
25°	8835.8	8889.0	9219.7	9922.6	10929.6	11983.9	12672.0	12595.2	11995.7	11532.1	11437.6
27.5°	8407.6	8463.7	8824.0	9588.9	10705.2	12043.0	13120.9	13159.2	12453.4	11848.0	11747.6
30°	8071.0	8124.1	8508.0	9320.1	10415.8	11983.9	13513.6	13779.4	12920.0	12122.7	11978.0
32.5°	7701.8	7769.7	8174.3	8992.3	10073.2	11842.1	13856.2	14449.8	13460.5	12418.0	12234.9
35°	7235.2	7297.2	7722.5	8543.5	9624.3	11614.7	14142.6	15194.0	14234.2	12866.9	12663.1
37.5°	6668.2	6727.3	7149.6	7982.4	9178.4	11295.8	14361.2	16032.7	15155.6	13513.6	13241.9
40°	6098.3	6154.4	6550.1	7356.3	8643.9	10888.3	14438.0	16853.6	16212.8	14402.5	14113.1
42.5°	5575.5	5625.8	5989.0	6739.1	8044.4	10368.5	14337.6	17568.3	17160.8	15022.7	14650.6
45°	5094.2	5138.5	5460.4	6160.3	7421.3	9736.5	14036.3	18336.1	18288.9	15465.7	14963.6
47.5°	4544.9	4589.2	4922.9	5599.2	6798.2	8995.3	13525.4	19092.1	19857.0	16469.7	15890.9
50°	3874.5	3912.9	4255.5	4952.4	6151.4	8206.8	12816.7	19685.7	21835.6	17990.6	17264.1
52.5°	3080.1	3121.5	3455.2	4152.1	5383.6	7359.3	11883.5	20072.6	24121.3	20211.4	19316.6
55°	2291.6	2321.2	2610.6	3236.7	4432.7	6393.6	10714.0	20181.8	26714.2	23247.2	22128.0
57.5°	1662.6	1680.3	1866.4	2333.0	3360.7	5185.7	9293.6	19898.3	29800.3	27139.5	25730.8
60°	1346.6	1352.5	1408.7	1615.4	2335.9	3821.4	7577.8	18923.8	33149.1	32156.9	30382.0
62.5°	1222.6	1222.6	1237.4	1293.5	1579.9	2522.0	5501.7	16903.8	36740.2	38497.3	36120.0
65°	1137.0	1137.0	1142.9	1169.4	1246.2	1606.5	3472.9	13614.0	39767.1	45924.5	42918.2
67.5°	1060.2	1063.1	1060.2	1069.0	1113.3	1187.2	2014.0	9402.8	41397.3	53620.4	50374.9
70°	980.4	986.4	971.6	971.6	1007.0	1010.0	1261.0	5156.2	40044.7	60070.1	59216.6
72.5°	885.9	894.8	871.2	865.3	891.9	880.0	948.0	2474.7	34380.6	61995.5	64239.9
75°	803.3	815.1	761.9	747.1	747.1	738.3	770.8	1269.9	22314.0	50572.7	54092.9
77.5°	729.4	753.1	667.4	620.2	608.3	581.8	629.0	776.7	9760.2	23743.3	23250.2
80°	602.4	634.9	549.3	493.2	472.5	443.0	496.1	543.4	2902.9	5513.5	5280.2
82.5°	448.9	463.6	389.8	351.4	333.7	313.0	372.1	378.0	945.0	1952.0	2206.0
85°	286.5	292.4	239.2	206.7	197.9	189.0	236.3	206.7	360.3	1435.2	2084.9
87.5°	100.4	115.2	91.5	82.7	88.6	73.8	109.3	62.0	100.4	1012.9	1255.1
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)