

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: P954491

Luminaire Tested: **GALN-SB7D-727-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954491
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB7D-727-U-5NQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 70339 lumens
Efficiency: N/A
Efficacy: 137.2 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): 512.8
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

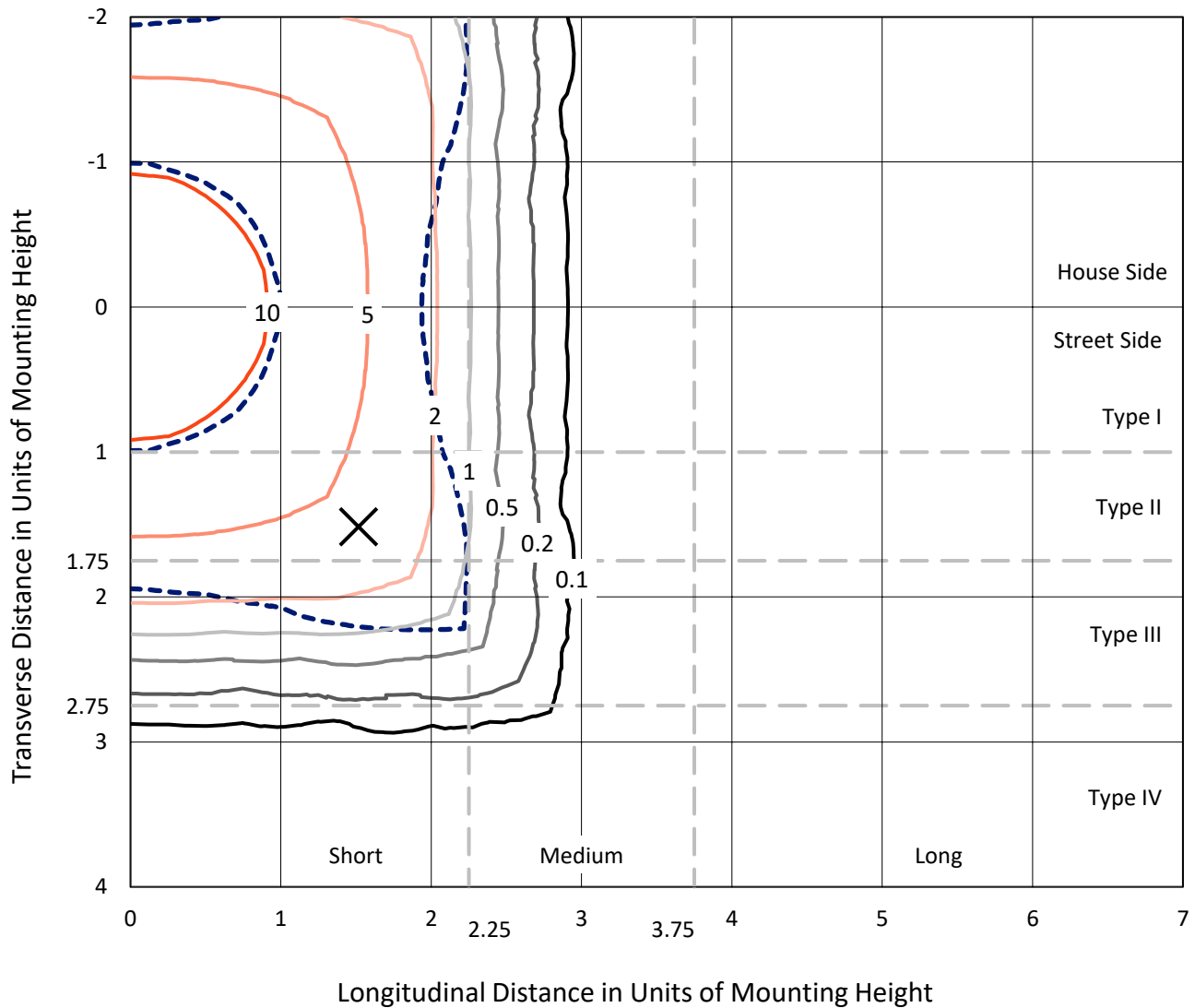


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd

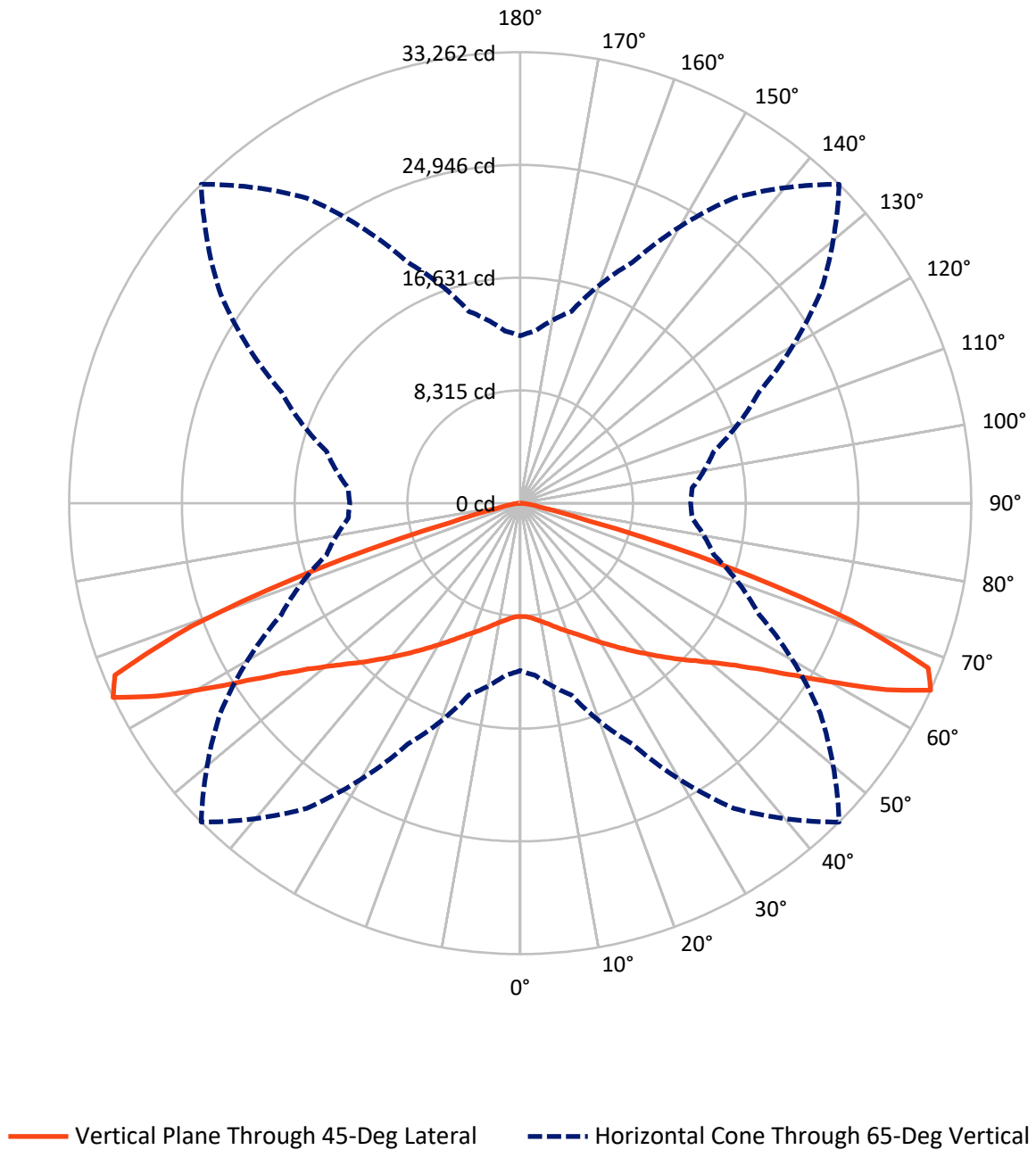


Based on 25 foot mounting height. Maximum calculated value = 13.7 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	35169.5	0.0	35169.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	35169.5	0.0	35169.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	70339.0	0.0	70339.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	826.1	1.2
10°-20°	2695.8	3.8
20°-30°	5089.9	7.2
30°-40°	8334.5	11.8
40°-50°	12922.8	18.4
50°-60°	19089.7	27.1
60°-70°	18171.6	25.8
70°-80°	2932.2	4.2
80°-90°	276.4	0.4
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°	70339.0	100.0
0°-180°	70339.0	100.0

Coefficient of Utilization



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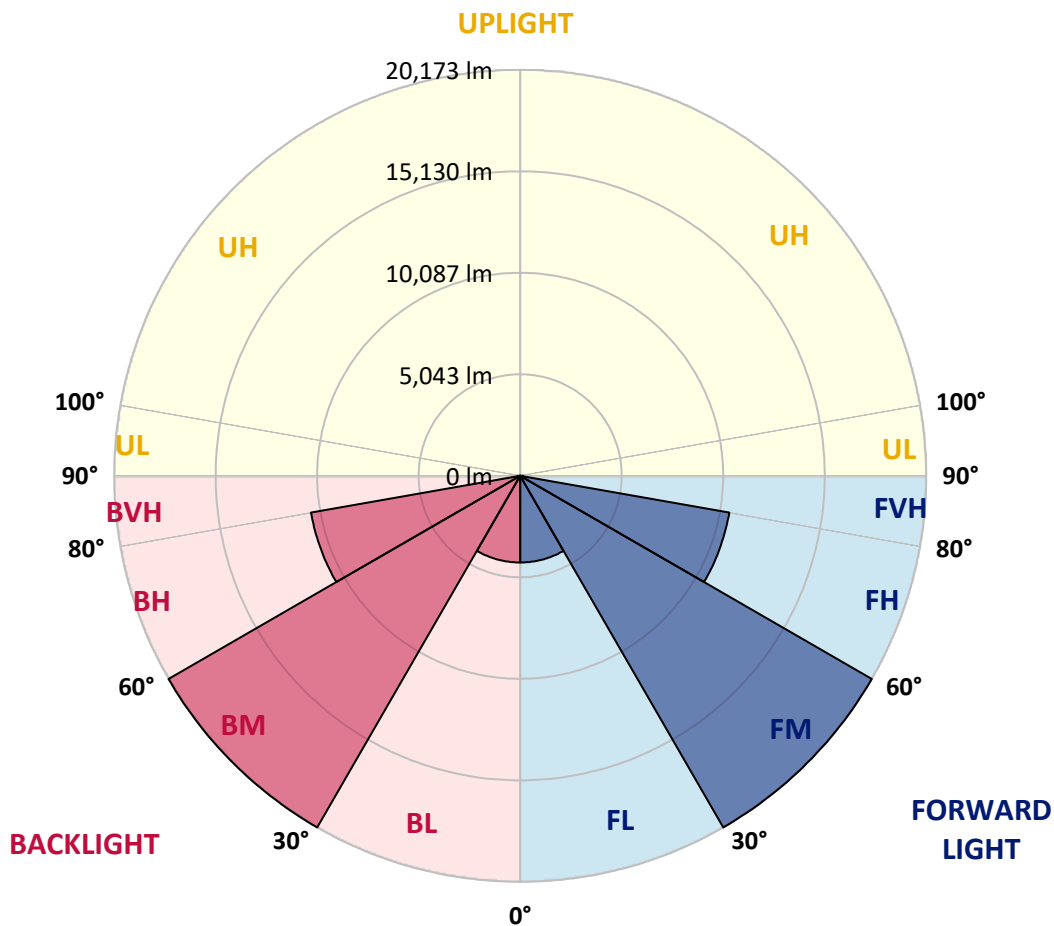
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4305.9	6.1			
FM	(30°-60°)	20173.5	28.7			
FH	(60°-80°)	10551.9	15.0			G4/12000
FVH	(80°-90°)	138.2	0.2			G2/225
BL	(0°-30°)	4305.9	6.1	B4/5000		
BM	(30°-60°)	20173.5	28.7	B5		
BH	(60°-80°)	10551.9	15.0	B5		G4/12000
BVH	(80°-90°)	138.2	0.2			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°	8371.0	8371.0	8371.0	8371.0	8371.0	8371.0	8371.0	8371.0	8371.0	8371.0	8371.0
2.5°	8427.5	8399.3	8420.5	8402.8	8388.7	8374.6	8381.6	8406.3	8416.9	8420.5	8420.5
5°	8540.4	8515.7	8526.3	8526.3	8501.6	8494.6	8498.1	8515.7	8536.9	8536.9	8536.9
7.5°	8724.0	8699.3	8724.0	8709.8	8688.7	8681.6	8678.1	8692.2	8724.0	8724.0	8713.4
10°	8946.3	8918.1	8932.2	8925.1	8900.4	8889.8	8886.3	8907.5	8935.7	8932.2	8925.1
12.5°	9189.8	9158.0	9175.7	9154.5	9147.4	9136.9	9136.9	9133.3	9151.0	9136.9	9143.9
15°	9461.5	9440.4	9447.4	9433.3	9443.9	9436.8	9408.6	9394.5	9401.5	9380.4	9383.9
17.5°	9782.7	9733.3	9758.0	9750.9	9750.9	9765.0	9719.2	9701.5	9715.6	9694.5	9712.1
20°	10153.2	10103.8	10114.4	10100.3	10082.7	10096.8	10040.3	10054.4	10065.0	10050.9	10082.7
22.5°	10559.1	10495.6	10492.0	10499.1	10460.3	10463.8	10425.0	10460.3	10481.5	10442.6	10481.5
25°	10975.5	10908.5	10954.4	10936.7	10887.3	10897.9	10869.7	10904.9	10922.6	10873.2	10929.6
27.5°	11416.7	11370.8	11413.1	11423.7	11363.7	11406.1	11363.7	11395.5	11413.1	11339.0	11395.5
30°	11931.9	11886.0	11924.9	11953.1	11882.5	11949.6	11914.3	11935.4	11939.0	11850.7	11903.7
32.5°	12493.0	12422.5	12521.3	12535.4	12457.8	12538.9	12493.0	12521.3	12538.9	12418.9	12500.1
35°	13177.7	13089.5	13202.4	13184.7	13117.7	13184.7	13142.4	13184.7	13227.1	13082.4	13170.6
37.5°	13915.3	13823.5	13943.5	13911.7	13848.2	13894.1	13869.4	13897.6	13964.7	13809.4	13904.7
40°	14727.0	14614.0	14776.4	14719.9	14659.9	14652.9	14667.0	14684.6	14772.8	14599.9	14656.4
42.5°	15595.1	15475.1	15718.6	15630.4	15545.7	15489.3	15535.1	15570.4	15655.1	15461.0	15563.4
45°	16586.8	16449.2	16766.8	16660.9	16526.8	16410.4	16484.5	16537.4	16660.9	16428.0	16548.0
47.5°	17680.8	17525.6	17864.3	17832.6	17613.8	17359.7	17529.1	17680.8	17772.6	17490.3	17585.5
50°	18750.2	18630.2	19074.8	19113.6	18845.4	18489.0	18725.4	18954.8	18979.5	18609.0	18654.9
52.5°	19752.4	19632.4	20278.3	20521.8	20281.8	19858.3	20108.9	20341.8	20154.7	19674.8	19688.9
55°	20553.5	20454.7	21277.0	21905.2	21986.3	21637.0	21785.2	21778.1	21164.1	20426.5	20451.2
57.5°	20747.6	20733.5	21771.1	23101.5	23948.5	23990.9	23698.0	22949.8	21626.4	20634.7	20571.2
60°	19865.3	19953.6	21379.3	23726.2	25984.8	26923.6	25656.6	23521.5	21100.5	19724.2	19561.8
62.5°	17225.6	17458.5	19177.2	22963.9	27629.4	30297.4	27227.1	22653.3	18940.7	17144.4	17038.5
65°	12344.8	12750.7	14649.3	19597.1	27481.2	33261.8	27001.2	19438.3	14790.5	12718.9	12567.2
67.5°	5600.7	6013.6	7626.4	13417.7	23888.5	32457.2	23832.1	13558.8	8007.5	6034.8	5946.5
70°	2029.2	2099.8	2618.6	5371.3	15266.9	25861.3	15919.8	5410.1	2784.5	2237.5	2209.2
72.5°	1228.1	1238.7	1348.1	1923.4	5304.2	15701.0	5530.1	1986.9	1376.4	1221.1	1242.2
75°	779.9	772.9	959.9	1175.2	1881.0	5297.2	1972.8	1175.2	956.4	871.7	878.7
77.5°	561.1	578.8	688.2	878.7	1185.8	1796.3	1164.6	839.9	688.2	564.7	575.2
80°	420.0	430.6	501.1	684.6	832.9	1118.7	741.1	621.1	518.8	352.9	363.5
82.5°	303.5	303.5	328.2	497.6	508.2	603.5	402.3	437.6	342.3	250.6	250.6
85°	180.0	176.5	204.7	296.4	264.7	222.3	183.5	268.2	215.3	155.3	151.8
87.5°	63.5	67.1	63.5	84.7	70.6	60.0	56.5	74.1	60.0	52.9	49.4
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)