

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: P950206

Luminaire Tested: **GALN-SB4D-727-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950206
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-727-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 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: 39616 lumens
Efficiency: N/A
Efficacy: 134.9 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

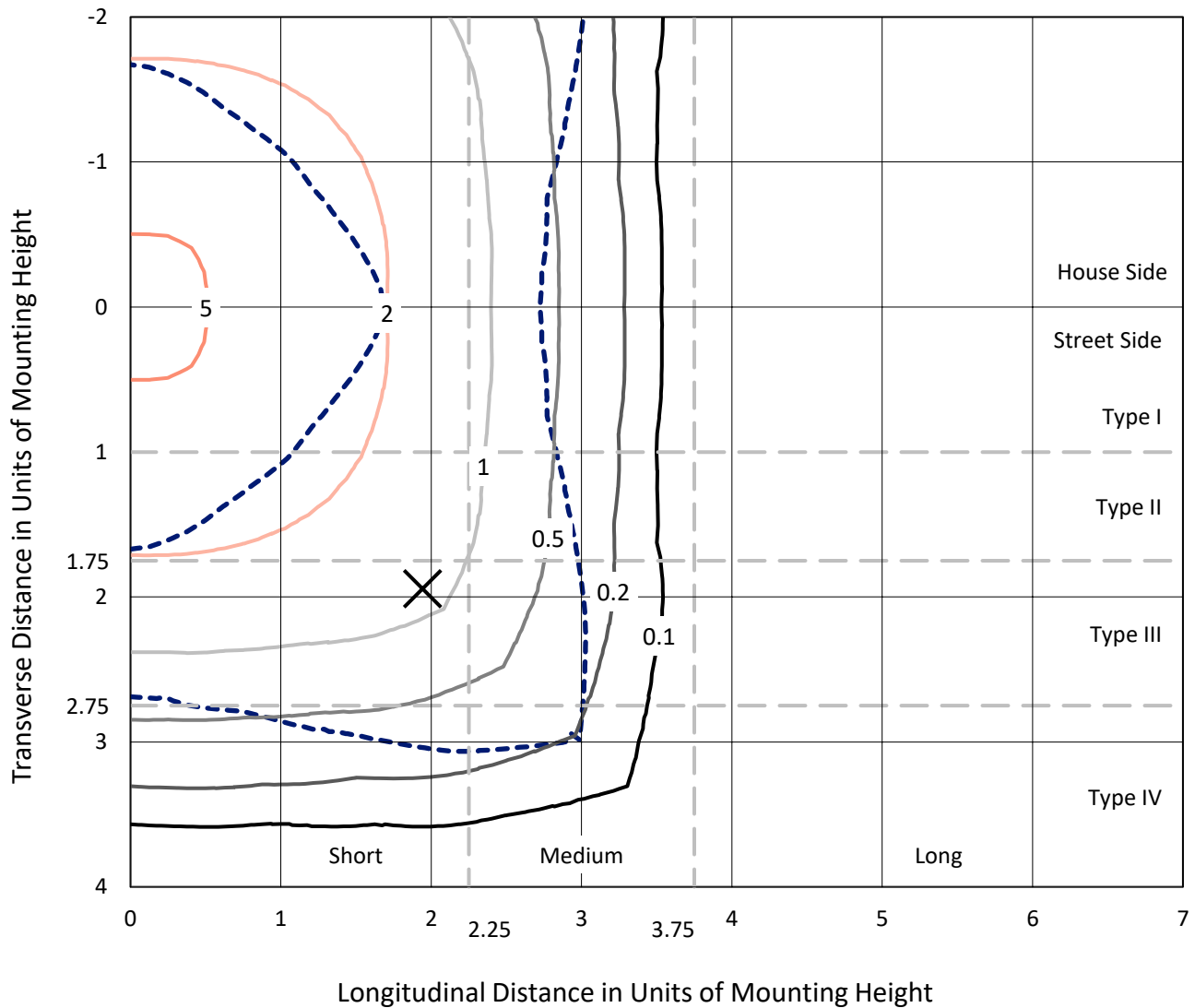


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

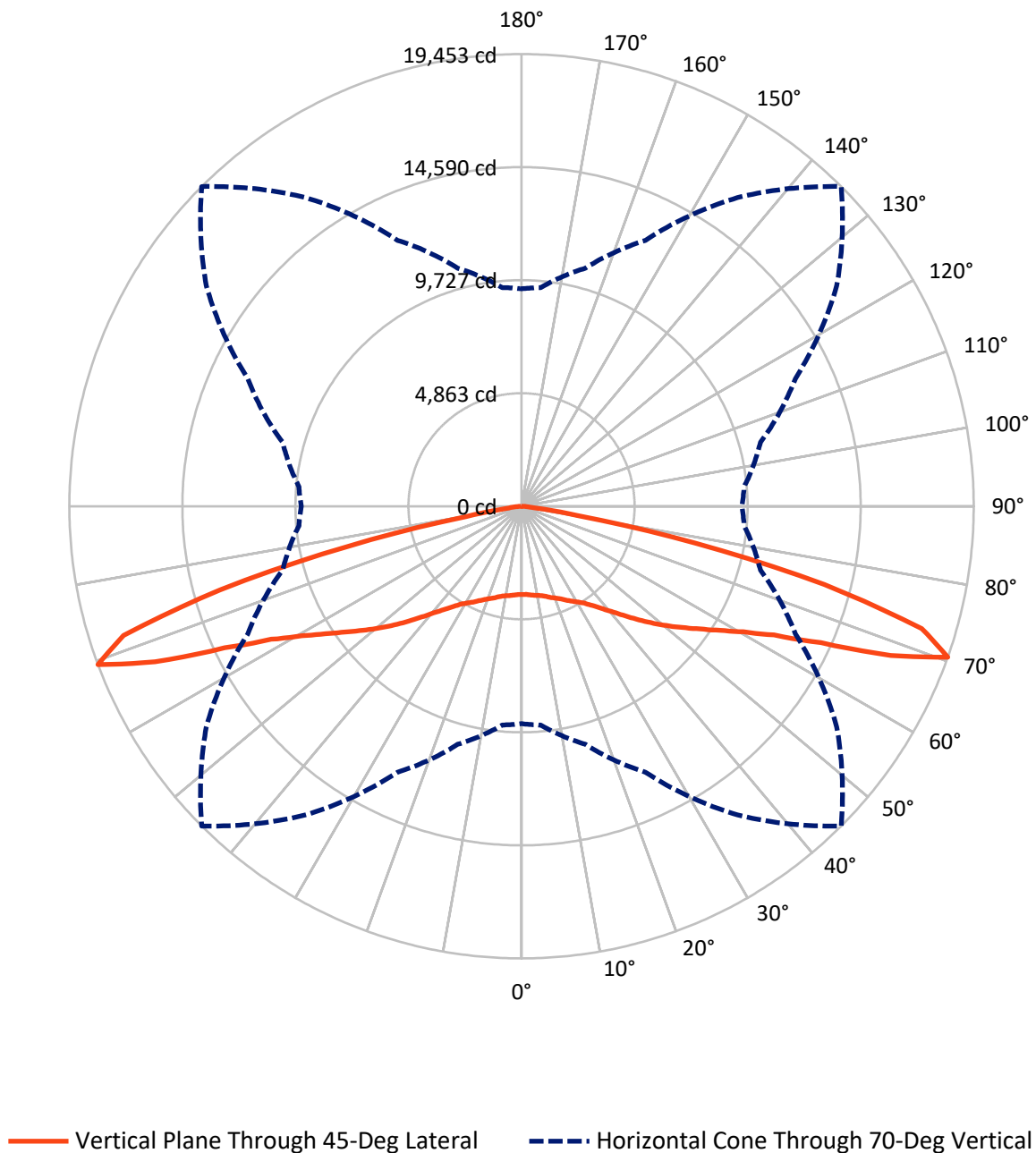


Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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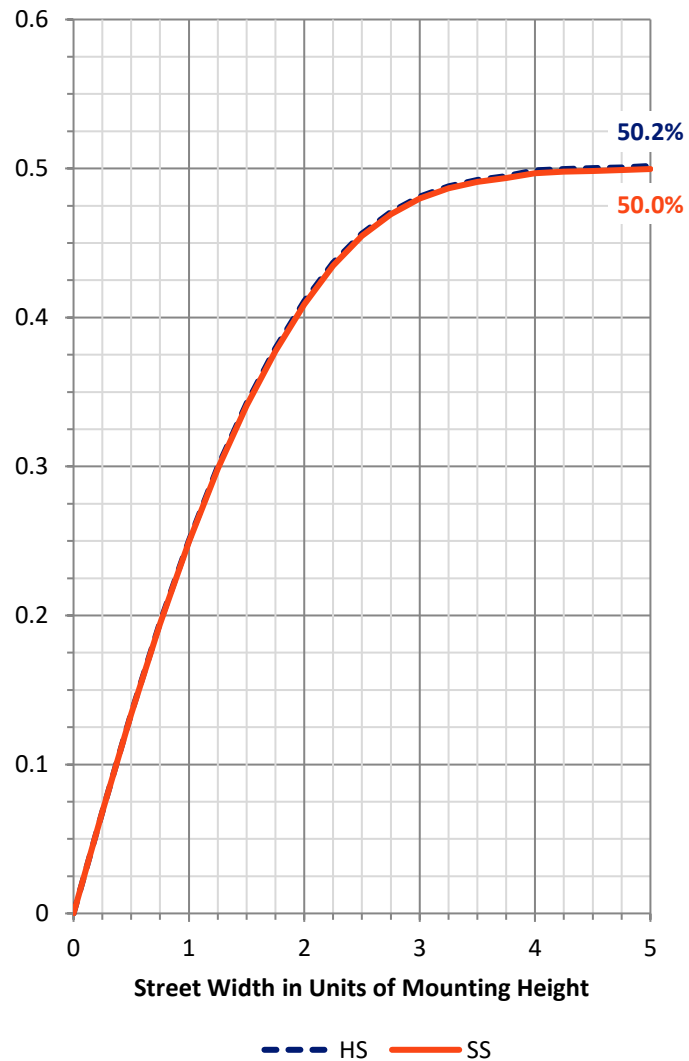
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19808.0	0.0	19808.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19808.0	0.0	19808.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	39616.0	0.0	39616.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	368.7	0.9
10°-20°	1143.2	2.9
20°-30°	2043.0	5.2
30°-40°	3311.7	8.4
40°-50°	5394.2	13.6
50°-60°	8224.3	20.8
60°-70°	12235.2	30.9
70°-80°	6668.6	16.8
80°-90°	227.1	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°	39616.0	100.0
0°-180°	39616.0	100.0

Coefficient of Utilization



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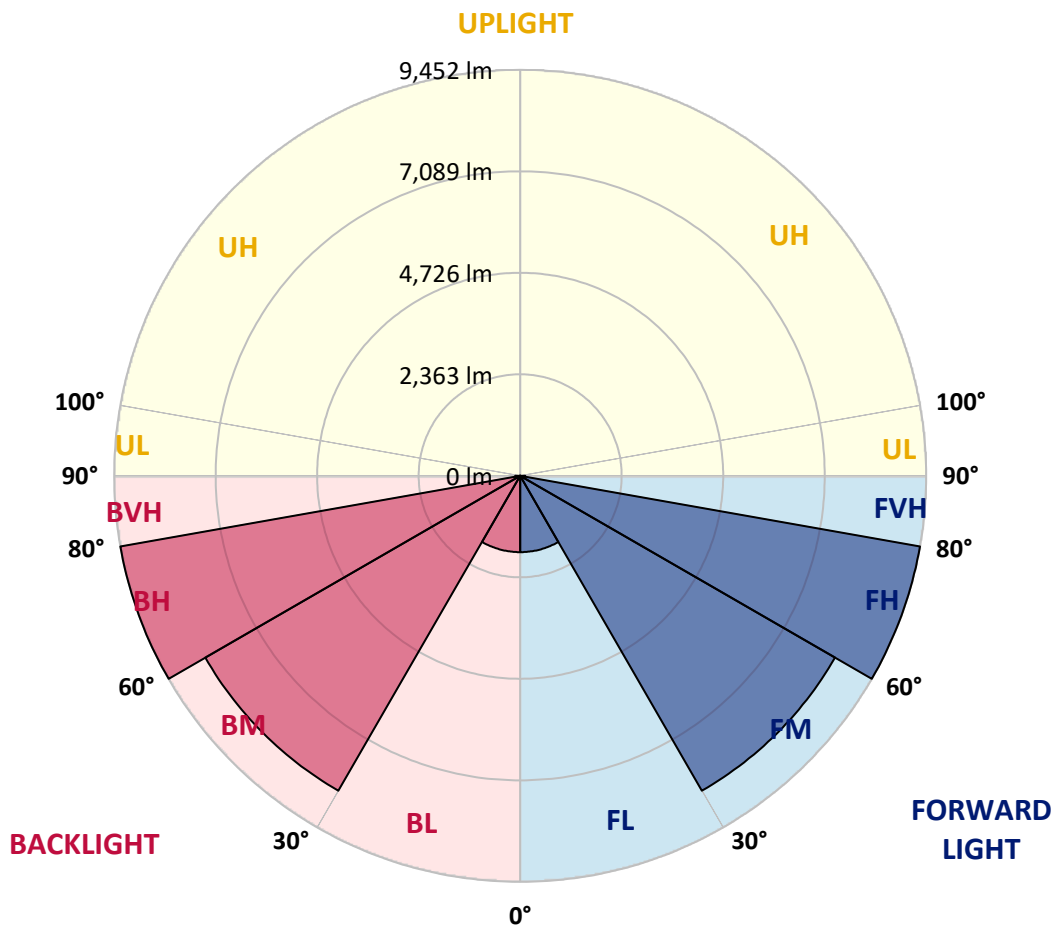
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1777.4	4.5			
FM	(30°-60°)	8465.1	21.4			
FH	(60°-80°)	9451.9	23.9			G4/12000
FVH	(80°-90°)	113.5	0.3			G2/225
BL	(0°-30°)	1777.4	4.5	B3/2500		
BM	(30°-60°)	8465.1	21.4	B4/8500		
BH	(60°-80°)	9451.9	23.9	B5		G4/12000
BVH	(80°-90°)	113.5	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°	3794.8	3794.8	3794.8	3794.8	3794.8	3794.8	3794.8	3794.8	3794.8	3794.8	3794.8
2.5°	3812.7	3816.7	3808.7	3804.7	3800.8	3794.8	3796.8	3806.7	3814.7	3812.7	3814.7
5°	3844.5	3848.5	3842.5	3840.5	3832.6	3830.6	3830.6	3840.5	3846.5	3842.5	3844.5
7.5°	3880.3	3886.3	3876.3	3874.4	3870.4	3866.4	3864.4	3874.4	3880.3	3880.3	3880.3
10°	3914.1	3920.1	3912.1	3906.2	3902.2	3902.2	3898.2	3906.2	3916.1	3914.1	3914.1
12.5°	3949.9	3953.9	3946.0	3942.0	3942.0	3947.9	3942.0	3946.0	3953.9	3949.9	3947.9
15°	3993.7	3995.7	3993.7	3999.7	4009.6	4029.5	4011.6	4007.6	4011.6	4001.6	4001.6
17.5°	4053.4	4057.3	4065.3	4079.2	4093.1	4128.9	4097.1	4087.2	4087.2	4067.3	4067.3
20°	4126.9	4132.9	4144.8	4168.7	4186.6	4220.4	4188.6	4174.7	4168.7	4142.9	4142.9
22.5°	4204.5	4214.5	4232.4	4264.2	4296.0	4327.8	4296.0	4272.1	4254.2	4220.4	4218.4
25°	4294.0	4305.9	4333.8	4385.5	4429.3	4475.0	4437.2	4389.5	4353.7	4305.9	4304.0
27.5°	4421.3	4435.2	4469.0	4532.7	4588.4	4628.1	4592.3	4530.7	4481.0	4423.3	4421.3
30°	4600.3	4614.2	4654.0	4721.6	4759.4	4785.3	4761.4	4713.7	4654.0	4588.4	4588.4
32.5°	4831.0	4848.9	4892.7	4956.3	4964.3	4968.2	4960.3	4936.4	4892.7	4813.1	4815.1
35°	5123.4	5143.3	5193.0	5244.7	5236.7	5244.7	5232.8	5224.8	5193.0	5101.5	5101.5
37.5°	5481.4	5505.2	5557.0	5596.7	5576.8	5566.9	5568.9	5570.9	5553.0	5451.5	5451.5
40°	5897.1	5928.9	5966.7	6008.4	5974.6	5944.8	5964.7	5980.6	5964.7	5861.3	5861.3
42.5°	6324.7	6370.4	6410.2	6469.9	6442.0	6404.2	6432.1	6450.0	6416.2	6304.8	6312.7
45°	6800.0	6843.8	6895.5	6985.0	6965.1	6925.3	6965.1	6969.1	6911.4	6780.1	6794.0
47.5°	7291.3	7337.0	7414.6	7533.9	7526.0	7482.2	7533.9	7506.1	7432.5	7275.4	7265.4
50°	7756.7	7820.3	7939.7	8106.7	8122.6	8068.9	8138.5	8084.8	7961.5	7764.6	7760.7
52.5°	8194.2	8261.9	8450.8	8677.5	8735.2	8665.6	8759.1	8665.6	8480.6	8228.0	8204.2
55°	8653.7	8729.2	8954.0	9250.3	9365.7	9314.0	9401.5	9260.3	8997.7	8691.5	8649.7
57.5°	9194.6	9240.4	9508.9	9860.9	10055.8	10067.8	10107.5	9868.9	9550.7	9202.6	9154.9
60°	9781.4	9845.0	10137.4	10559.0	10867.3	10966.7	10925.0	10571.0	10201.0	9801.3	9737.6
62.5°	10533.2	10602.8	10952.8	11458.0	11945.3	12191.9	12028.8	11515.7	11058.2	10578.9	10495.4
65°	11155.7	11233.3	11865.7	12766.7	13653.7	14149.0	13739.3	12794.5	11971.1	11294.9	11183.5
67.5°	10704.2	10799.7	11792.1	13446.9	15652.6	17130.3	15728.1	13649.8	12036.8	11119.9	10982.7
70°	9355.7	9445.2	10602.8	12625.5	16215.4	19453.3	16553.5	12997.4	10640.6	9614.3	9477.1
72.5°	6211.3	6499.7	7671.2	10097.6	14479.1	18001.4	14622.3	9892.7	7116.2	6197.4	5996.5
75°	2060.5	2291.2	3090.7	5234.8	9697.8	13462.8	9232.4	4632.1	2448.3	1762.2	1666.7
77.5°	519.1	598.7	825.4	1497.6	3868.4	7665.2	3482.5	1223.2	666.3	465.4	415.7
80°	252.6	278.4	397.8	499.2	968.6	2436.4	908.9	469.4	314.2	242.6	222.8
82.5°	139.2	141.2	224.7	282.4	360.0	630.5	373.9	274.5	181.0	147.2	147.2
85°	85.5	83.5	119.3	151.2	151.2	224.7	179.0	151.2	103.4	91.5	95.5
87.5°	33.8	33.8	43.8	47.7	41.8	57.7	45.7	49.7	39.8	37.8	39.8
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)