

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: P941290

Luminaire Tested: **GALN-SB4D-735-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941290
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4D-735-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41253 lumens
Efficiency: N/A
Efficacy: 140.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

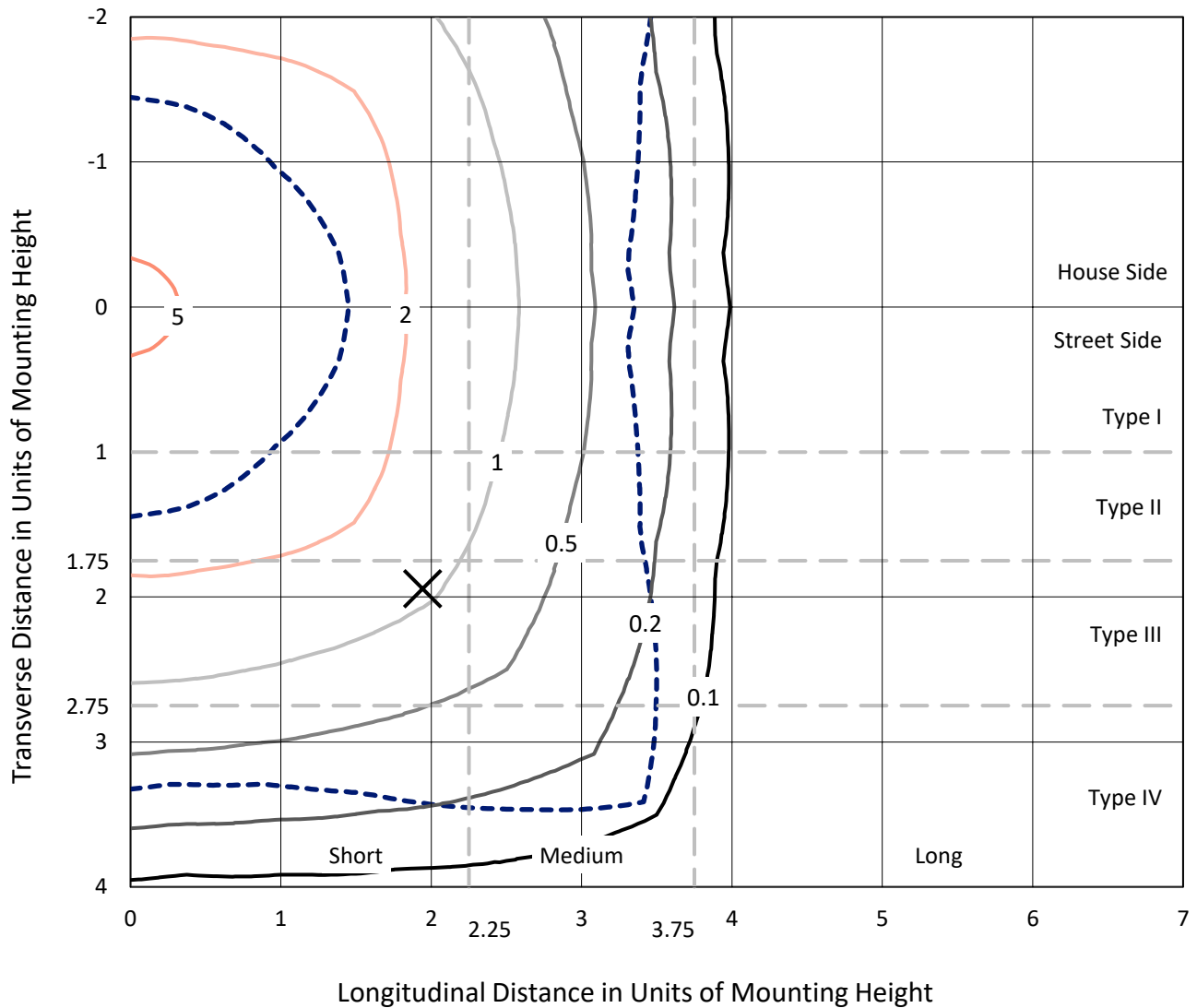
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

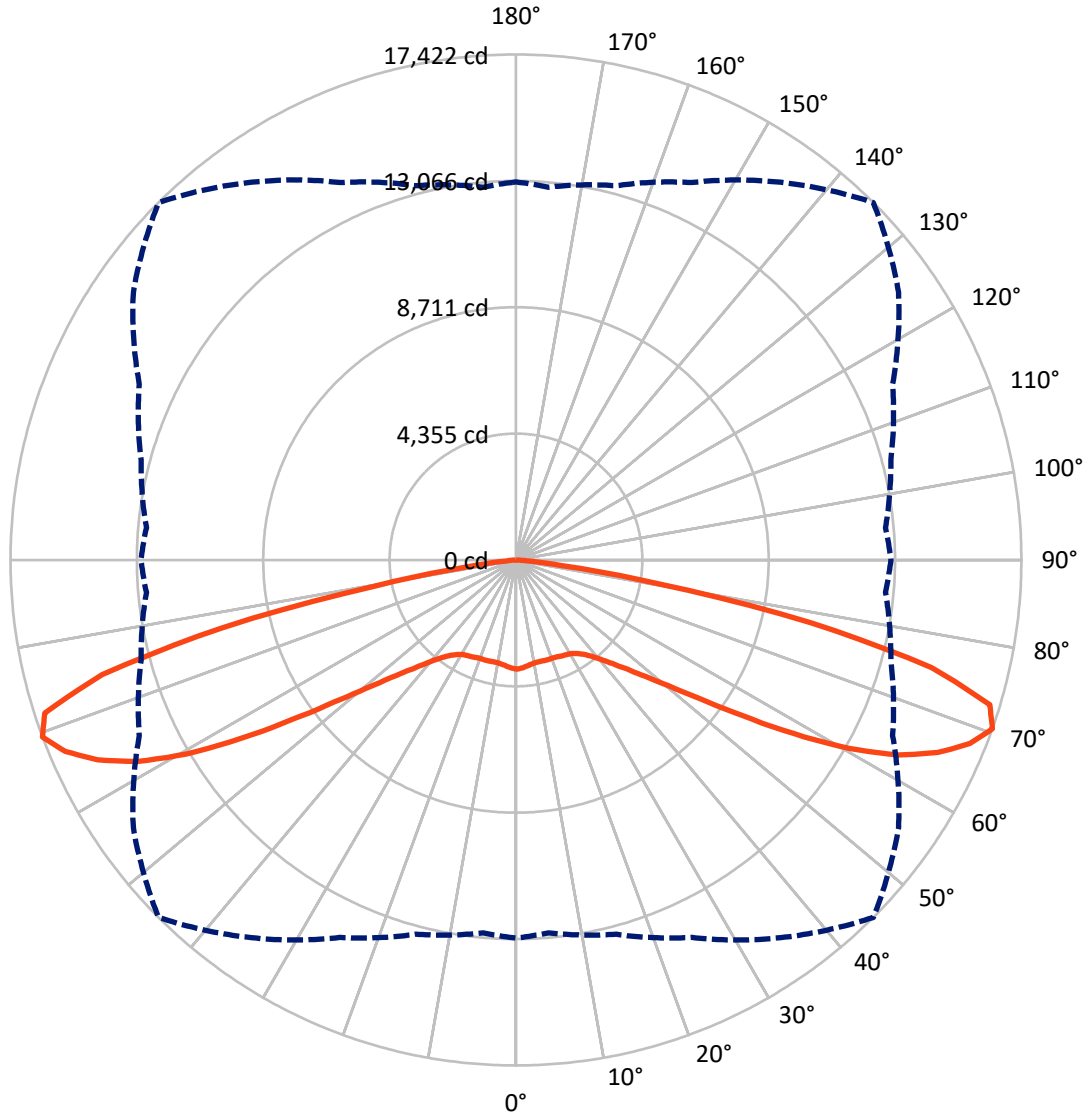
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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	20626.5	0.0	20626.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20626.5	0.0	20626.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	41253.0	0.0	41253.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	350.1	0.8
10°-20°	1027.9	2.5
20°-30°	1710.5	4.1
30°-40°	2586.8	6.3
40°-50°	4298.6	10.4
50°-60°	8111.4	19.7
60°-70°	13696.4	33.2
70°-80°	8999.9	21.8
80°-90°	471.5	1.1
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°	41253.0	100.0
0°-180°	41253.0	100.0



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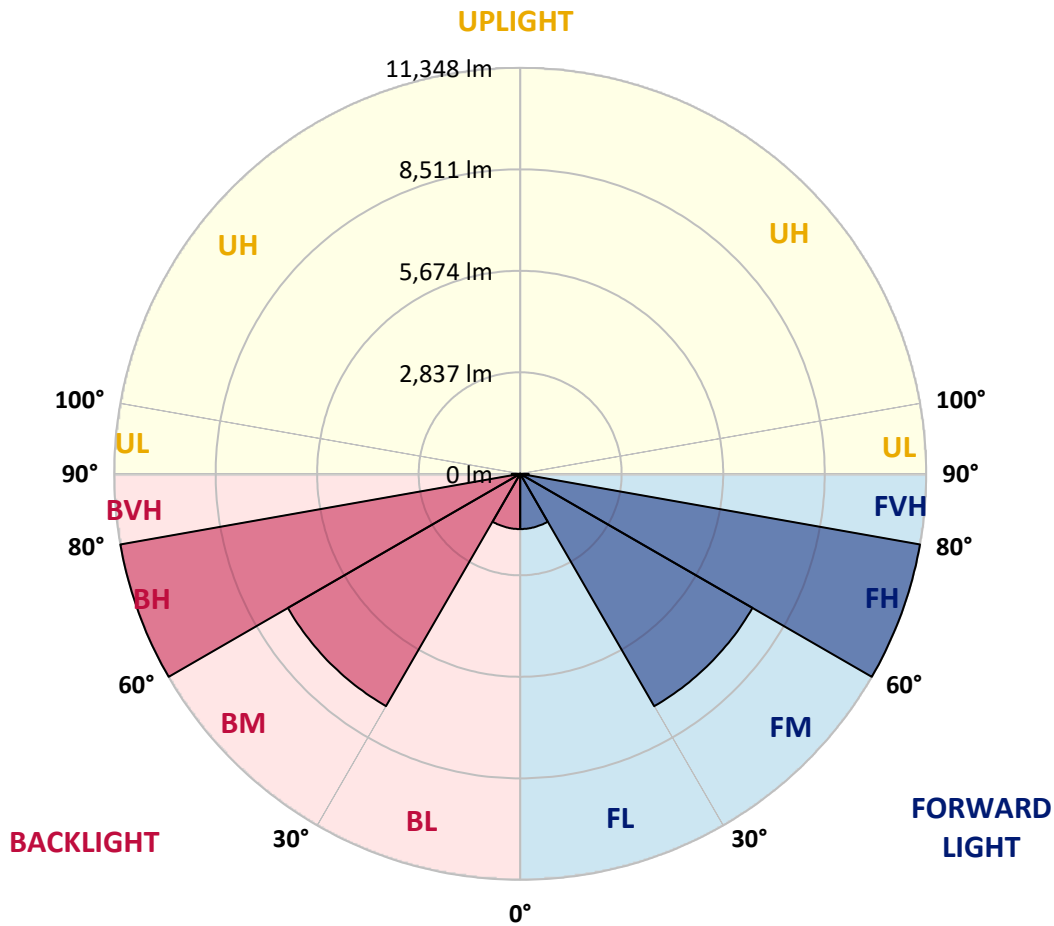
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1544.2	3.7			
FM (30°-60°)	7498.4	18.2			
FH (60°-80°)	11348.1	27.5			G4/12000
FVH (80°-90°)	235.8	0.6			G3/500
BL (0°-30°)	1544.2	3.7	B3/2500		
BM (30°-60°)	7498.4	18.2	B4/8500		
BH (60°-80°)	11348.1	27.5	B5		G4/12000
BVH (80°-90°)	235.8	0.6			G3/500
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°	3763.1	3763.1	3763.1	3763.1	3763.1	3763.1	3763.1	3763.1	3763.1	3763.1
2.5°	3739.5	3750.2	3746.0	3737.4	3737.4	3730.9	3737.4	3741.7	3748.1	3752.4
5°	3690.2	3698.8	3696.6	3690.2	3692.3	3685.9	3690.2	3696.6	3700.9	3703.1
7.5°	3647.3	3655.9	3651.6	3640.9	3640.9	3634.5	3636.6	3643.0	3649.5	3651.6
10°	3636.6	3645.2	3632.3	3615.2	3608.7	3600.1	3602.3	3608.7	3621.6	3628.0
12.5°	3640.9	3647.3	3634.5	3608.7	3602.3	3593.7	3593.7	3600.1	3617.3	3625.9
15°	3653.7	3660.2	3640.9	3613.0	3606.6	3600.1	3598.0	3606.6	3625.9	3640.9
17.5°	3677.3	3683.8	3653.7	3615.2	3606.6	3608.7	3606.6	3613.0	3643.0	3670.9
20°	3698.8	3703.1	3662.3	3615.2	3606.6	3608.7	3606.6	3619.4	3658.0	3696.6
22.5°	3705.2	3709.5	3670.9	3630.2	3623.7	3625.9	3623.7	3636.6	3673.0	3711.6
25°	3707.4	3713.8	3683.8	3651.6	3662.3	3666.6	3662.3	3664.5	3692.3	3726.7
27.5°	3739.5	3748.1	3720.2	3692.3	3698.8	3696.6	3703.1	3709.5	3730.9	3765.2
30°	3806.0	3812.4	3788.8	3761.0	3756.7	3741.7	3761.0	3782.4	3806.0	3836.0
32.5°	3915.3	3928.2	3898.2	3868.2	3848.9	3840.3	3855.3	3891.8	3923.9	3956.1
35°	4097.6	4106.2	4078.3	4022.6	3988.2	3988.2	4001.1	4048.3	4099.7	4140.5
37.5°	4354.9	4365.6	4316.3	4249.8	4198.4	4198.4	4215.5	4264.9	4342.0	4399.9
40°	4668.0	4683.0	4620.8	4552.2	4502.9	4494.3	4515.7	4571.5	4644.4	4717.3
42.5°	5045.3	5062.5	4981.0	4921.0	4882.4	4882.4	4893.1	4944.6	5011.0	5101.1
45°	5527.8	5557.8	5446.3	5386.3	5349.8	5358.4	5364.8	5409.9	5469.9	5572.8
47.5°	6102.4	6132.5	6014.5	5952.4	5945.9	5986.7	5960.9	5993.1	6025.3	6143.2
50°	6754.3	6805.8	6724.3	6720.0	6732.8	6807.9	6747.9	6765.0	6728.6	6803.6
52.5°	7551.9	7627.0	7612.0	7637.7	7781.4	7935.8	7798.5	7738.5	7601.3	7624.8
55°	8519.0	8632.6	8654.1	8808.5	9134.4	9449.6	9158.0	8915.7	8624.0	8570.4
57.5°	9619.0	9709.0	9811.9	10127.1	10736.1	11295.7	10736.1	10200.0	9741.2	9631.8
60°	10802.6	10914.1	11012.7	11478.0	12382.9	13169.8	12365.7	11514.5	10907.6	10759.7
62.5°	12074.1	12217.8	12286.4	12803.1	13858.1	14797.3	13873.1	12841.7	12168.4	12009.8
65°	13294.2	13412.1	13489.3	14040.3	15048.1	15989.4	15116.7	14100.4	13407.8	13199.8
67.5°	13862.4	13926.7	14115.4	14739.4	15802.9	16877.1	15983.0	14805.8	14031.8	13667.3
70°	13030.4	12899.6	13354.2	14353.4	15893.0	17421.8	16098.8	14323.4	13375.6	12783.8
72.5°	10069.3	9844.1	10633.2	12342.1	14863.7	17074.4	14966.6	12438.6	11124.2	9923.4
75°	5478.5	5223.3	6312.6	8474.0	11853.2	14799.4	12125.6	8716.2	7028.7	5437.7
77.5°	1546.0	1449.5	2328.6	4099.7	7129.5	10390.9	7404.0	4189.8	2761.8	1638.2
80°	473.9	458.9	621.8	1235.1	3027.6	4976.7	2909.7	1250.1	791.2	499.6
82.5°	280.9	257.3	308.8	450.3	771.9	1563.1	750.5	469.6	377.4	253.0
85°	160.8	150.1	182.3	218.7	259.5	332.4	216.6	223.0	201.6	135.1
87.5°	66.5	60.0	70.8	68.6	60.0	77.2	57.9	68.6	81.5	53.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
3763.1
3750.2
3703.1
3651.6
3628.0
3628.0
3643.0
3670.9
3698.8
3711.6
3724.5
3756.7
3829.6
3943.2
4125.5
4378.5
4693.7
5094.7
5568.5
6108.9
6758.6
7545.5
8486.8
9554.6
10631.0
11881.1
13096.9
13671.5
12925.4
10221.5
5791.5
1820.4
527.5
274.5
141.5
49.3
0.0

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