

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: P951677

Luminaire Tested: **GALN-SB5D-735-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951677
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-SB5D-735-U-5NQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53865 lumens
Efficiency: N/A
Efficacy: 147.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

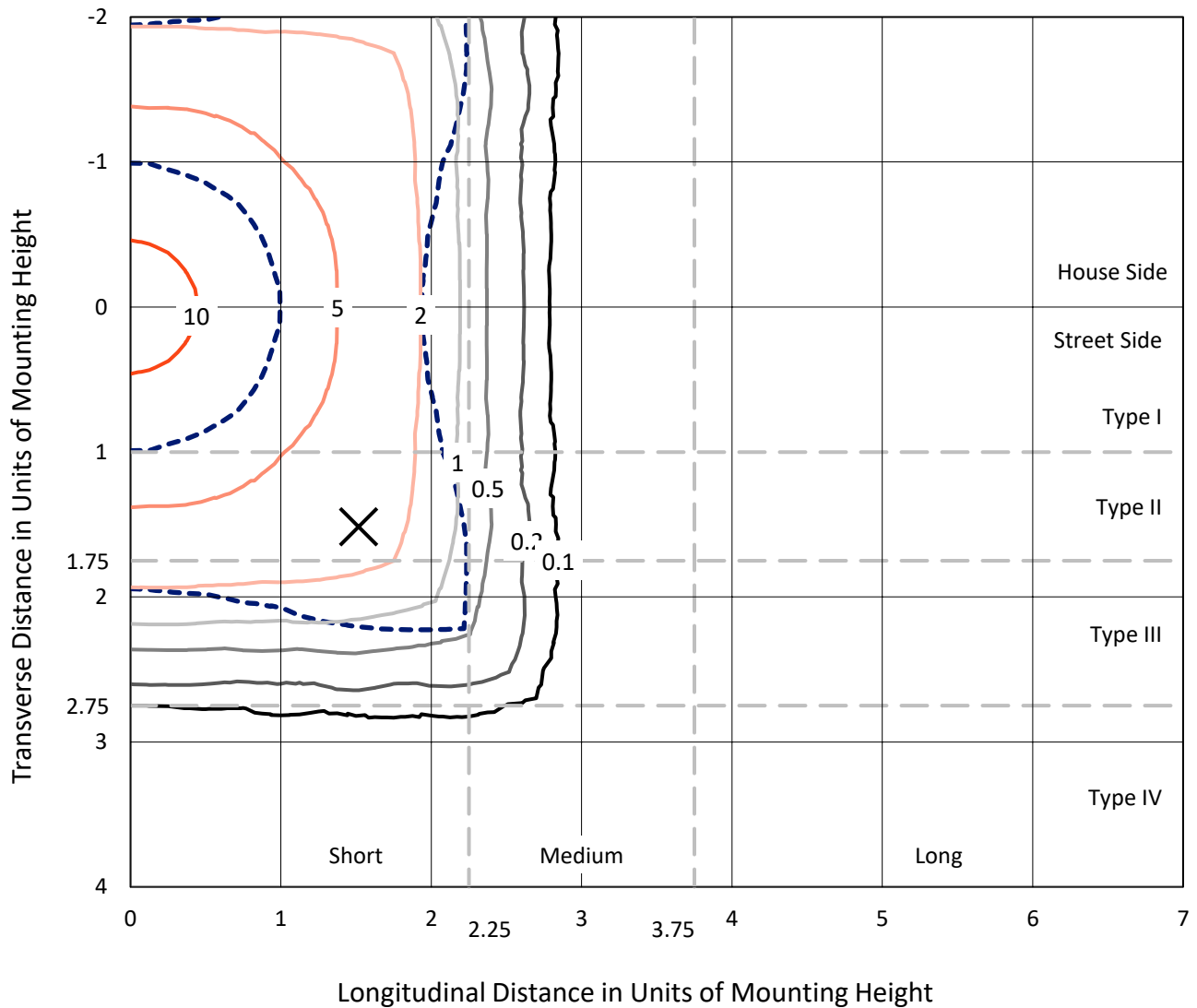
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

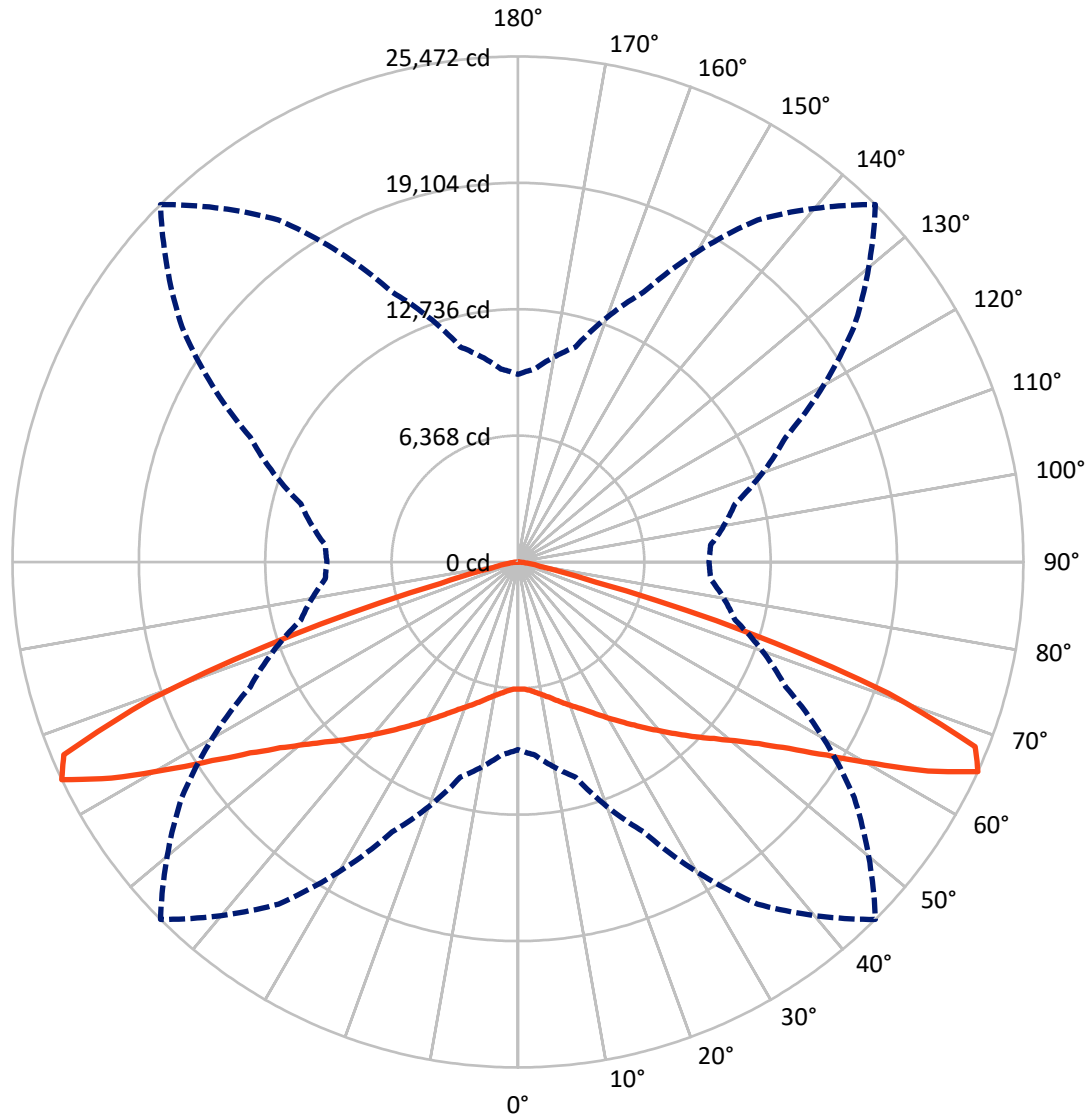
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	26932.5	0.0	26932.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	26932.5	0.0	26932.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	53865.0	0.0	53865.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	632.7	1.2
10°-20°	2064.4	3.8
20°-30°	3897.8	7.2
30°-40°	6382.5	11.8
40°-50°	9896.2	18.4
50°-60°	14618.7	27.1
60°-70°	13915.6	25.8
70°-80°	2245.5	4.2
80°-90°	211.7	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°	53865.0	100.0
0°-180°	53865.0	100.0

Coefficient of Utilization



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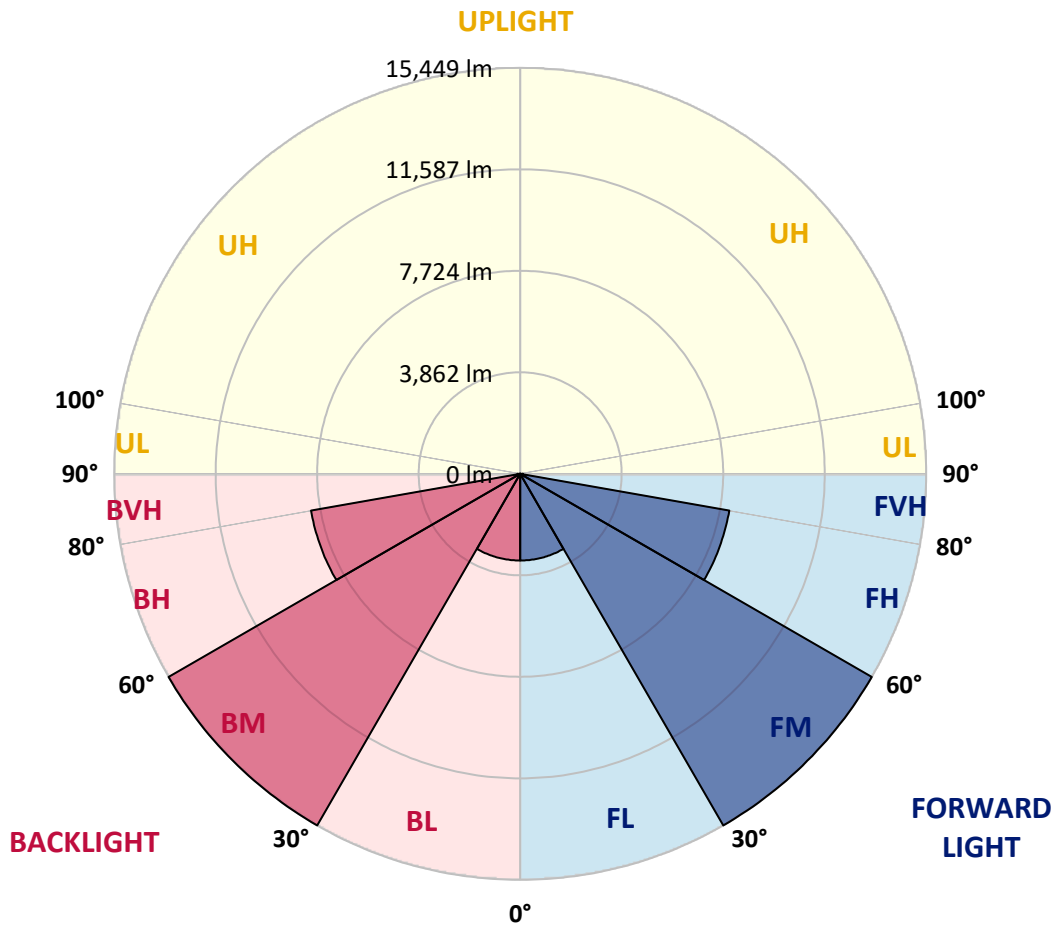
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3297.4	6.1			
FM	(30°-60°)	15448.7	28.7			
FH	(60°-80°)	8080.6	15.0			G4/12000
FVH	(80°-90°)	105.8	0.2			G2/225
BL	(0°-30°)	3297.4	6.1	B4/5000		
BM	(30°-60°)	15448.7	28.7	B5		
BH	(60°-80°)	8080.6	15.0	B5		G4/12000
BVH	(80°-90°)	105.8	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°
0°	6410.5	6410.5	6410.5	6410.5	6410.5	6410.5	6410.5	6410.5	6410.5	6410.5
2.5°	6453.7	6432.1	6448.3	6434.8	6424.0	6413.2	6418.6	6437.5	6445.6	6448.3
5°	6540.2	6521.3	6529.4	6529.4	6510.5	6505.1	6507.8	6521.3	6537.5	6537.5
7.5°	6680.7	6661.8	6680.7	6669.9	6653.7	6648.3	6645.6	6656.4	6680.7	6680.7
10°	6851.0	6829.4	6840.2	6834.8	6815.9	6807.8	6805.0	6821.3	6842.9	6840.2
12.5°	7037.5	7013.1	7026.7	7010.4	7005.0	6996.9	6996.9	6994.2	7007.7	6996.9
15°	7245.6	7229.3	7234.8	7223.9	7232.1	7226.6	7205.0	7194.2	7199.6	7183.4
17.5°	7491.5	7453.7	7472.6	7467.2	7467.2	7478.0	7442.9	7429.3	7440.1	7423.9
20°	7775.3	7737.4	7745.5	7734.7	7721.2	7732.0	7688.8	7699.6	7707.7	7696.9
22.5°	8086.1	8037.4	8034.7	8040.1	8010.4	8013.1	7983.4	8010.4	8026.6	7996.9
25°	8405.0	8353.6	8388.7	8375.2	8337.4	8345.5	8323.9	8350.9	8364.4	8326.6
27.5°	8742.8	8707.7	8740.1	8748.2	8702.2	8734.7	8702.2	8726.6	8740.1	8683.3
30°	9137.4	9102.2	9132.0	9153.6	9099.5	9150.9	9123.8	9140.1	9142.8	9075.2
32.5°	9567.1	9513.0	9588.7	9599.5	9540.0	9602.2	9567.1	9588.7	9602.2	9510.3
35°	10091.4	10023.8	10110.3	10096.8	10045.4	10096.8	10064.3	10096.8	10129.2	10018.4
37.5°	10656.2	10585.9	10677.8	10653.5	10604.8	10640.0	10621.1	10642.7	10694.0	10575.1
40°	11277.8	11191.3	11315.6	11272.4	11226.4	11221.0	11231.8	11245.4	11312.9	11180.5
42.5°	11942.6	11850.7	12037.2	11969.6	11904.8	11861.5	11896.7	11923.7	11988.6	11839.9
45°	12702.0	12596.6	12839.9	12758.8	12656.1	12566.9	12623.7	12664.2	12758.8	12580.4
47.5°	13539.8	13420.9	13680.4	13656.0	13488.5	13293.9	13423.6	13539.8	13610.1	13393.9
50°	14358.7	14266.8	14607.3	14637.1	14431.7	14158.7	14339.8	14515.5	14534.4	14250.6
52.5°	15126.2	15034.3	15528.9	15715.4	15531.6	15207.3	15399.2	15577.6	15434.3	15066.8
55°	15739.7	15664.0	16293.7	16774.8	16837.0	16569.4	16682.9	16677.5	16207.3	15642.4
57.5°	15888.4	15877.5	16672.1	17691.0	18339.6	18372.0	18147.7	17574.8	16561.3	15801.9
60°	15212.7	15280.3	16372.1	18169.3	19899.0	20617.8	19647.6	18012.6	16158.6	15104.6
62.5°	13191.2	13369.6	14685.7	17585.6	21158.3	23201.5	20850.3	17347.7	14504.6	13129.0
65°	9453.6	9764.4	11218.3	15007.3	21044.8	25471.6	20677.3	14885.7	11326.4	9740.0
67.5°	4289.0	4605.2	5840.2	10275.1	18293.6	24855.4	18250.4	10383.2	6132.1	4621.4
70°	1554.0	1608.0	2005.3	4113.3	11691.3	19804.4	12191.3	4143.0	2132.3	1713.4
72.5°	940.5	948.6	1032.4	1472.9	4061.9	12023.7	4234.9	1521.5	1054.0	935.1
75°	597.3	591.9	735.1	900.0	1440.5	4056.5	1510.7	900.0	732.4	667.5
77.5°	429.7	443.2	527.0	672.9	908.1	1375.6	891.8	643.2	527.0	432.4
80°	321.6	329.7	383.8	524.3	637.8	856.7	567.5	475.7	397.3	270.3
82.5°	232.4	232.4	251.3	381.1	389.2	462.1	308.1	335.1	262.1	191.9
85°	137.8	135.1	156.7	227.0	202.7	170.3	140.5	205.4	164.9	118.9
87.5°	48.6	51.3	48.6	64.9	54.1	45.9	43.2	56.8	45.9	40.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
6410.5
6448.3
6537.5
6672.6
6834.8
7002.3
7186.1
7437.4
7721.2
8026.6
8369.8
8726.6
9115.7
9572.5
10086.0
10648.1
11223.7
11918.3
12672.3
13466.9
14285.7
15077.6
15661.3
15753.2
14980.3
13048.0
9623.8
4553.8
1691.8
951.3
672.9
440.5
278.4
191.9
116.2
37.8
0.0

OF REPORT)