

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: P941970

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

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941970  
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-SB5D-735-U-5WQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

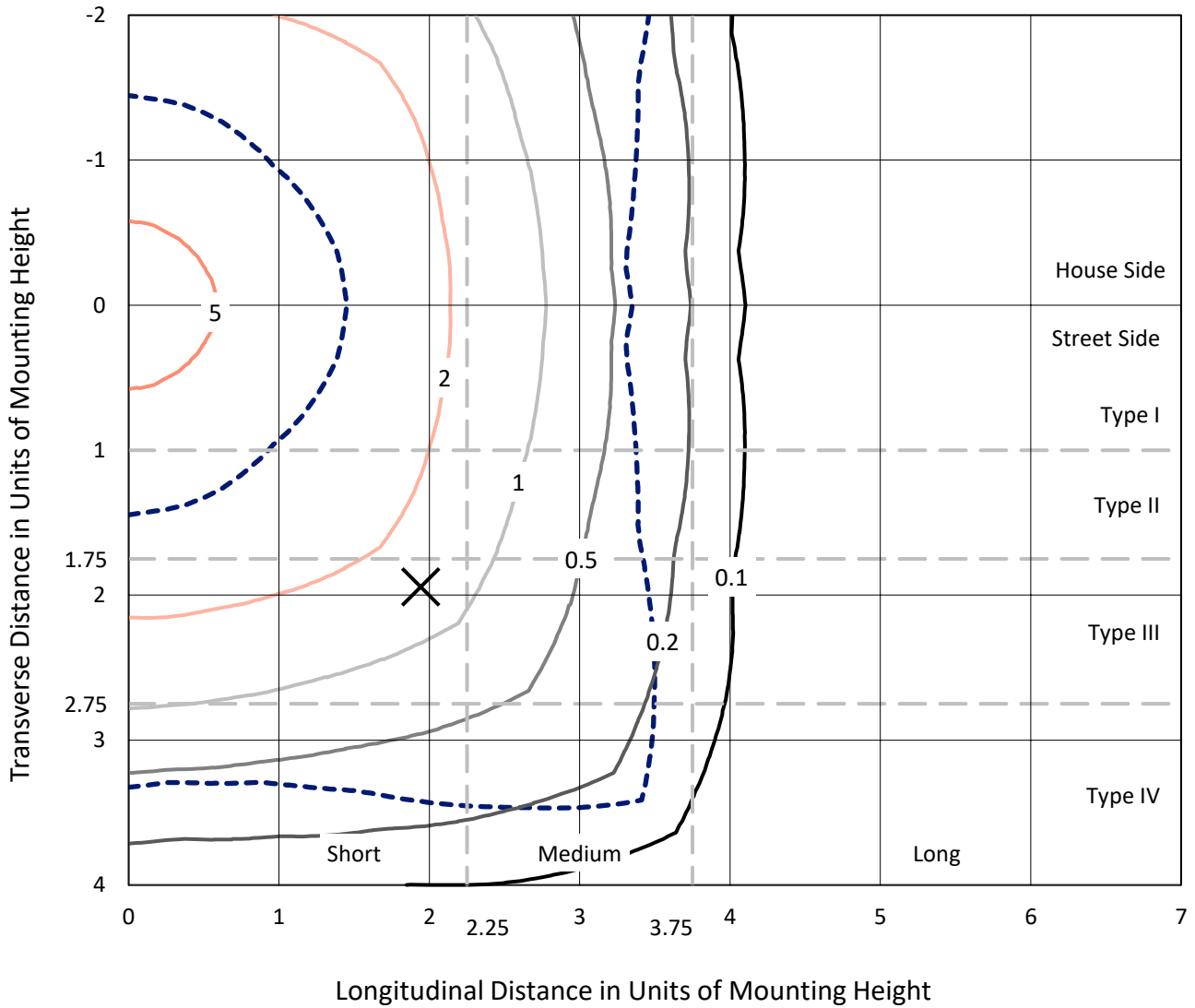
Lumens per Lamp: N/A  
Luminaire Lumens: 51995 lumens  
Efficiency: N/A  
Efficacy: 142.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 364.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

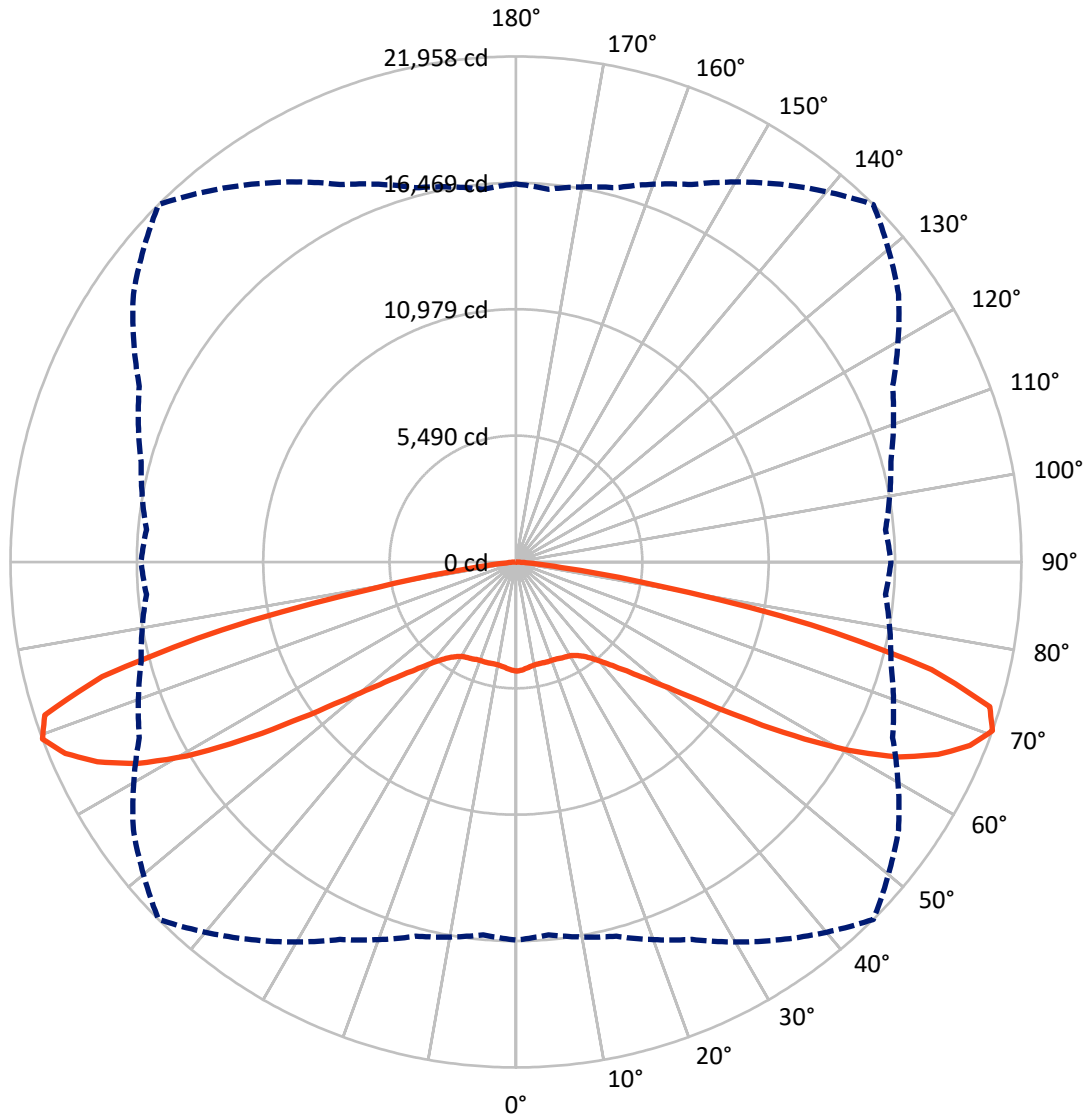
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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
<b>House Side</b>	Lumens	25997.5	0.0	25997.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	25997.5	0.0	25997.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	51995.0	0.0	51995.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	441.2	0.8
10°-20°	1295.5	2.5
20°-30°	2155.9	4.1
30°-40°	3260.4	6.3
40°-50°	5418.0	10.4
50°-60°	10223.5	19.7
60°-70°	17262.8	33.2
70°-80°	11343.4	21.8
80°-90°	594.3	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°	51995.0	100.0
0°-180°	51995.0	100.0

**Coefficient of Utilization**



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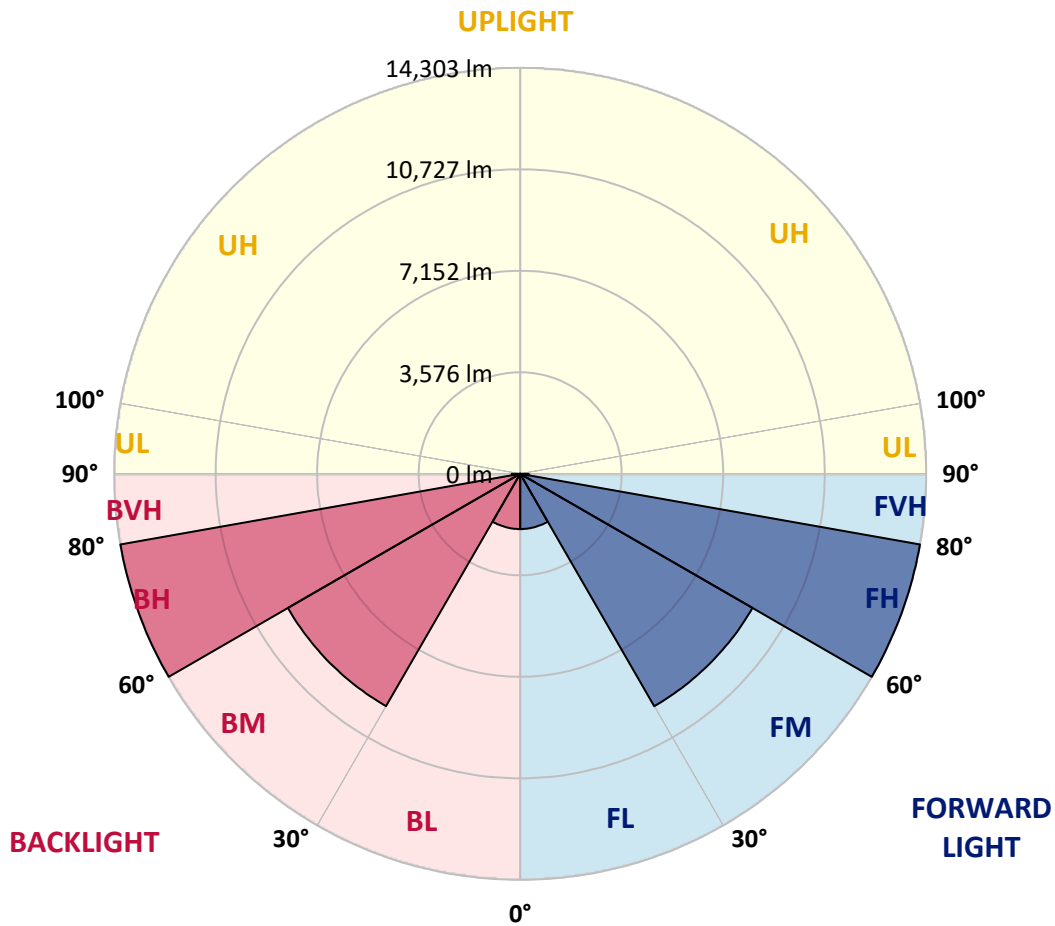
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1946.3	3.7			
FM (30°-60°)	9450.9	18.2			
FH (60°-80°)	14303.1	27.5			G5
FVH (80°-90°)	297.1	0.6			G3/500
BL (0°-30°)	1946.3	3.7	B3/2500		
BM (30°-60°)	9450.9	18.2	B5		
BH (60°-80°)	14303.1	27.5	B5		G5
BVH (80°-90°)	297.1	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-G5**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4743.0	4743.0	4743.0	4743.0	4743.0	4743.0	4743.0	4743.0	4743.0	4743.0
2.5°	4713.3	4726.8	4721.4	4710.6	4710.6	4702.5	4710.6	4716.0	4724.1	4729.5
5°	4651.1	4661.9	4659.2	4651.1	4653.8	4645.7	4651.1	4659.2	4664.6	4667.3
7.5°	4597.1	4607.9	4602.5	4588.9	4588.9	4580.8	4583.5	4591.6	4599.8	4602.5
10°	4583.5	4594.4	4578.1	4556.5	4548.4	4537.6	4540.3	4548.4	4564.6	4572.7
12.5°	4588.9	4597.1	4580.8	4548.4	4540.3	4529.5	4529.5	4537.6	4559.2	4570.0
15°	4605.2	4613.3	4588.9	4553.8	4545.7	4537.6	4534.9	4545.7	4570.0	4588.9
17.5°	4634.9	4643.0	4605.2	4556.5	4545.7	4548.4	4545.7	4553.8	4591.6	4626.8
20°	4661.9	4667.3	4616.0	4556.5	4545.7	4548.4	4545.7	4561.9	4610.6	4659.2
22.5°	4670.0	4675.4	4626.8	4575.4	4567.3	4570.0	4567.3	4583.5	4629.5	4678.1
25°	4672.7	4680.8	4643.0	4602.5	4616.0	4621.4	4616.0	4618.7	4653.8	4697.0
27.5°	4713.3	4724.1	4688.9	4653.8	4661.9	4659.2	4667.3	4675.4	4702.5	4745.7
30°	4797.0	4805.1	4775.4	4740.3	4734.9	4716.0	4740.3	4767.3	4797.0	4834.9
32.5°	4934.9	4951.1	4913.3	4875.4	4851.1	4840.3	4859.2	4905.1	4945.7	4986.2
35°	5164.6	5175.4	5140.3	5070.0	5026.8	5026.8	5043.0	5102.4	5167.3	5218.6
37.5°	5488.9	5502.4	5440.3	5356.5	5291.6	5291.6	5313.2	5375.4	5472.7	5545.7
40°	5883.5	5902.4	5824.0	5737.5	5675.4	5664.6	5691.6	5761.9	5853.7	5945.6
42.5°	6359.1	6380.7	6278.0	6202.4	6153.7	6153.7	6167.2	6232.1	6315.9	6429.4
45°	6967.2	7005.0	6864.5	6788.8	6742.9	6753.7	6761.8	6818.6	6894.2	7024.0
47.5°	7691.5	7729.3	7580.7	7502.3	7494.2	7545.5	7513.1	7553.7	7594.2	7742.8
50°	8513.1	8577.9	8475.2	8469.8	8486.0	8580.6	8505.0	8526.6	8480.6	8575.2
52.5°	9518.4	9613.0	9594.1	9626.5	9807.6	10002.2	9829.2	9753.5	9580.6	9610.3
55°	10737.3	10880.5	10907.5	11102.1	11512.9	11910.2	11542.6	11237.2	10869.7	10802.1
57.5°	12123.7	12237.2	12366.9	12764.2	13531.7	14237.1	13531.7	12856.1	12277.7	12139.9
60°	13615.5	13756.0	13880.3	14466.8	15607.3	16599.1	15585.7	14512.7	13747.9	13561.4
62.5°	15218.1	15399.2	15485.7	16137.0	17466.6	18650.4	17485.6	16185.6	15337.0	15137.0
65°	16755.9	16904.5	17001.8	17696.4	18966.6	20153.0	19053.0	17772.0	16899.1	16637.0
67.5°	17472.0	17553.1	17790.9	18577.4	19917.9	21271.8	20144.9	18661.2	17685.5	17226.1
70°	16423.5	16258.6	16831.5	18090.9	20031.4	21958.3	20290.8	18053.1	16858.6	16112.7
72.5°	12691.2	12407.4	13402.0	15555.9	18734.1	21520.5	18863.9	15677.5	14020.9	12507.4
75°	6905.0	6583.4	7956.3	10680.5	14939.7	18653.1	15283.0	10985.9	8859.0	6853.7
77.5°	1948.5	1826.9	2935.0	5167.3	8986.0	13096.6	9331.9	5280.8	3480.9	2064.8
80°	597.3	578.3	783.7	1556.7	3816.0	6272.6	3667.4	1575.6	997.2	629.7
82.5°	354.0	324.3	389.2	567.5	972.9	1970.2	945.9	591.9	475.7	318.9
85°	202.7	189.2	229.7	275.7	327.0	418.9	273.0	281.1	254.0	170.3
87.5°	83.8	75.7	89.2	86.5	75.7	97.3	73.0	86.5	102.7	67.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°  
4743.0  
4726.8  
4667.3  
4602.5  
4572.7  
4572.7  
4591.6  
4626.8  
4661.9  
4678.1  
4694.3  
4734.9  
4826.8  
4970.0  
5199.7  
5518.6  
5915.9  
6421.3  
7018.5  
7699.6  
8518.5  
9510.3  
10696.7  
12042.6  
13399.3  
14974.9  
16507.2  
17231.5  
**16291.0**  
12883.1  
7299.6  
2294.5  
664.8  
345.9  
178.4  
62.2  
0.0

OF REPORT)