

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: P942020

Luminaire Tested: **GALN-SB5D-830-U-5WQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P942020  
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-830-U-5WQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

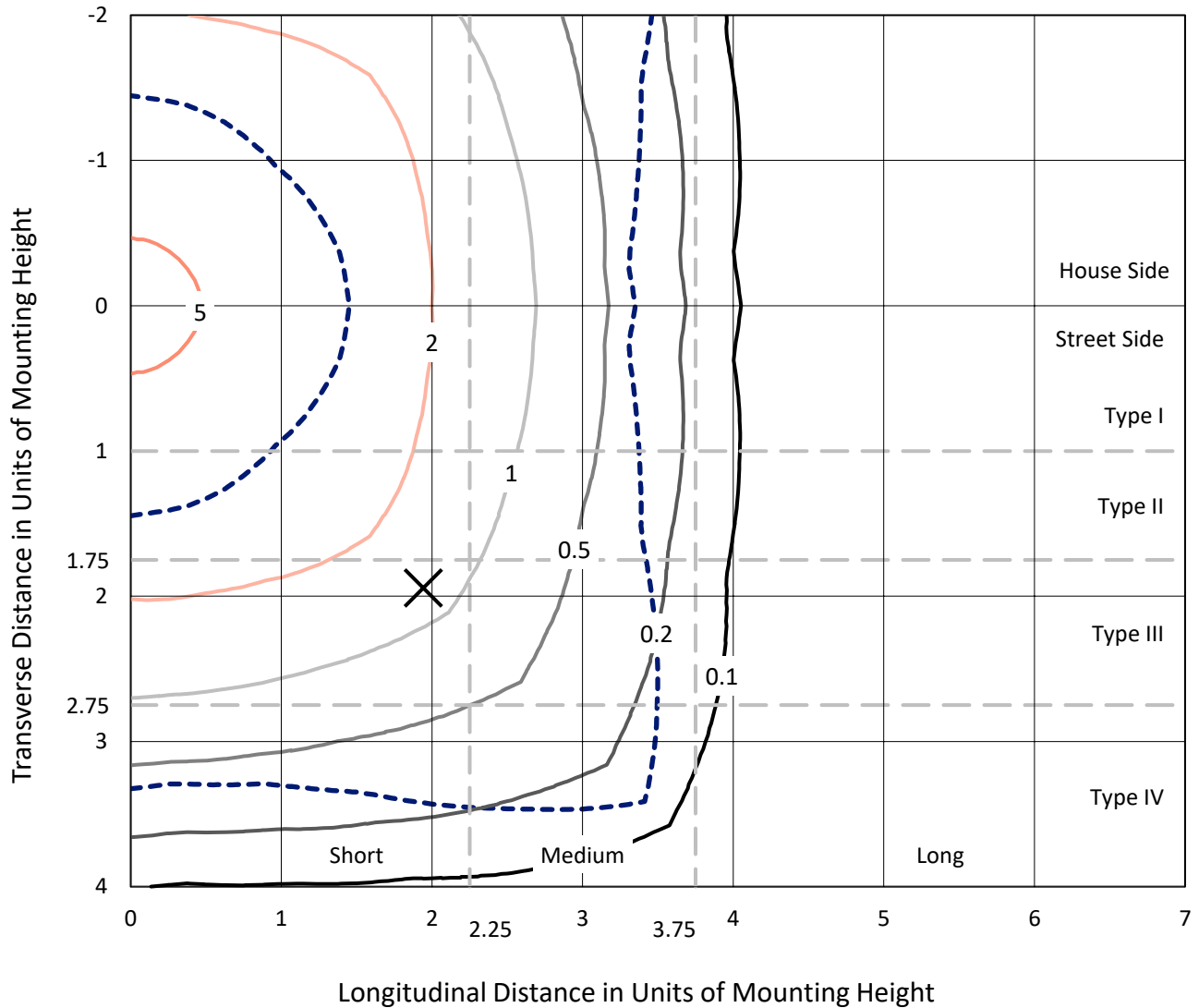
Lumens per Lamp: N/A  
Luminaire Lumens: 46720 lumens  
Efficiency: N/A  
Efficacy: 128.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 364.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

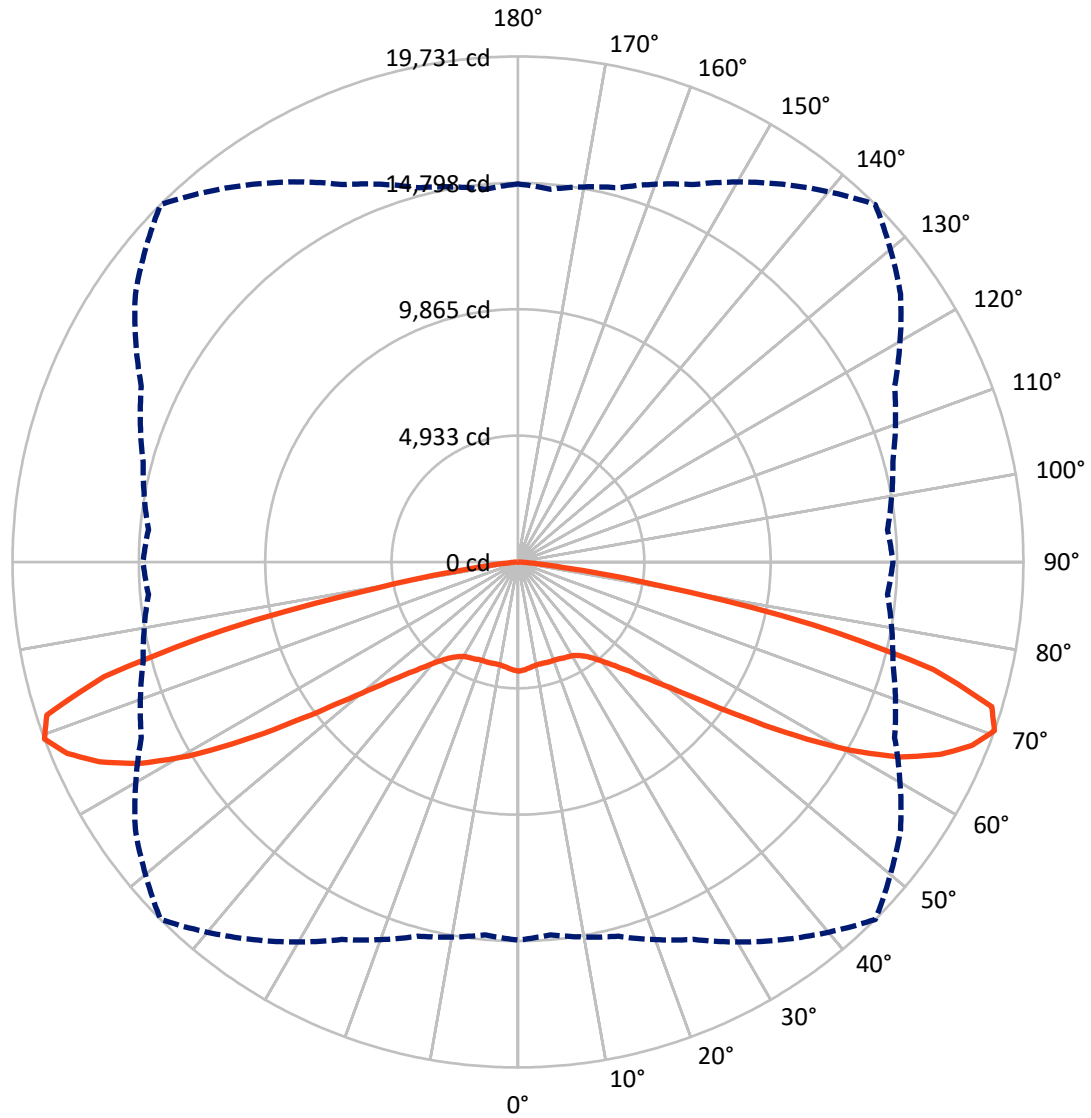
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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	23360.0	0.0	23360.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	23360.0	0.0	23360.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	46720.0	0.0	46720.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	396.4	0.8
10°-20°	1164.1	2.5
20°-30°	1937.2	4.1
30°-40°	2929.6	6.3
40°-50°	4868.3	10.4
50°-60°	9186.3	19.7
60°-70°	15511.5	33.2
70°-80°	10192.6	21.8
80°-90°	534.0	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°	46720.0	100.0
0°-180°	46720.0	100.0

**Coefficient of Utilization**



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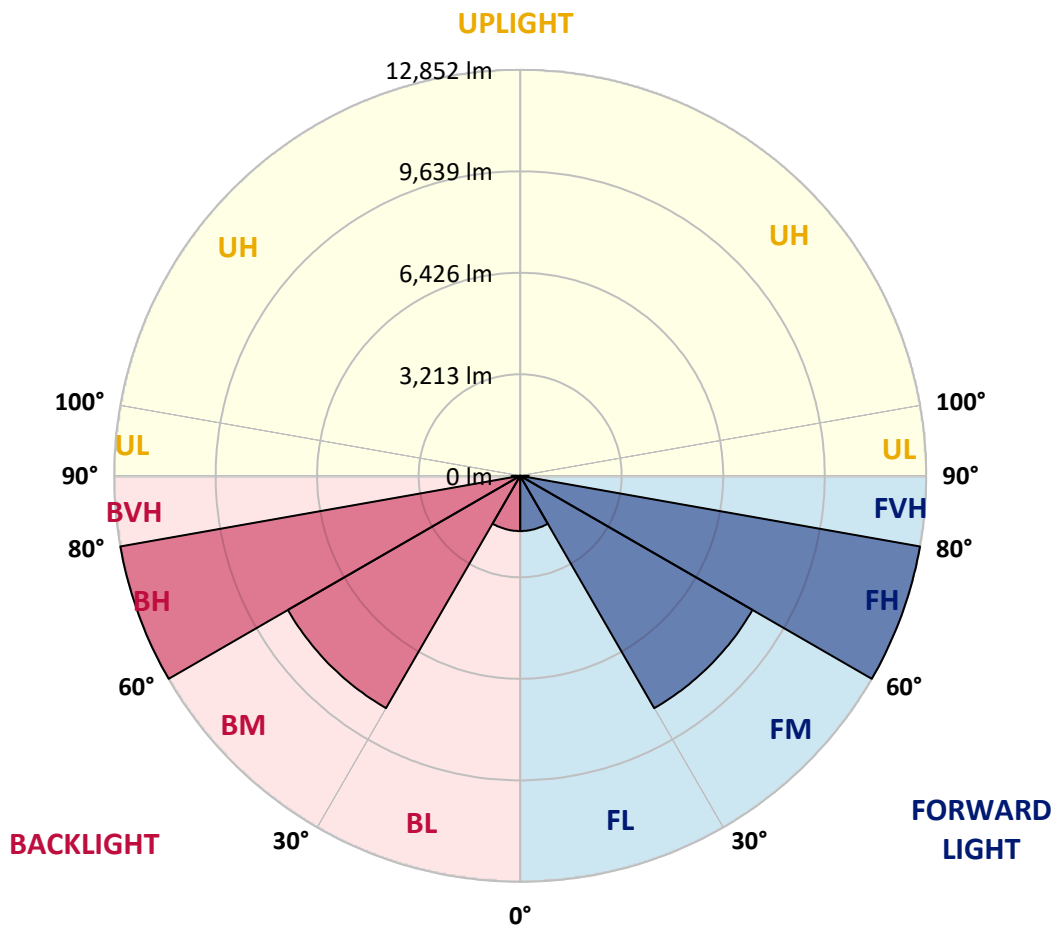
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1748.8	3.7			
FM (30°-60°)	8492.1	18.2			
FH (60°-80°)	12852.0	27.5			G5
FVH (80°-90°)	267.0	0.6			G3/500
BL (0°-30°)	1748.8	3.7	B3/2500		
BM (30°-60°)	8492.1	18.2	B4/8500		
BH (60°-80°)	12852.0	27.5	B5		G5
BVH (80°-90°)	267.0	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°	4261.8	4261.8	4261.8	4261.8	4261.8	4261.8	4261.8	4261.8	4261.8	4261.8
2.5°	4235.1	4247.2	4242.4	4232.7	4232.7	4225.4	4232.7	4237.5	4244.8	4249.7
5°	4179.2	4189.0	4186.5	4179.2	4181.7	4174.4	4179.2	4186.5	4191.4	4193.8
7.5°	4130.7	4140.4	4135.5	4123.4	4123.4	4116.1	4118.5	4125.8	4133.1	4135.5
10°	4118.5	4128.2	4113.7	4094.2	4087.0	4077.2	4079.7	4087.0	4101.5	4108.8
12.5°	4123.4	4130.7	4116.1	4087.0	4079.7	4070.0	4070.0	4077.2	4096.7	4106.4
15°	4138.0	4145.2	4123.4	4091.8	4084.5	4077.2	4074.8	4084.5	4106.4	4123.4
17.5°	4164.7	4172.0	4138.0	4094.2	4084.5	4087.0	4084.5	4091.8	4125.8	4157.4
20°	4189.0	4193.8	4147.7	4094.2	4084.5	4087.0	4084.5	4099.1	4142.8	4186.5
22.5°	4196.2	4201.1	4157.4	4111.2	4104.0	4106.4	4104.0	4118.5	4159.8	4203.5
25°	4198.7	4206.0	4172.0	4135.5	4147.7	4152.5	4147.7	4150.1	4181.7	4220.5
27.5°	4235.1	4244.8	4213.2	4181.7	4189.0	4186.5	4193.8	4201.1	4225.4	4264.2
30°	4310.4	4317.7	4290.9	4259.4	4254.5	4237.5	4259.4	4283.7	4310.4	4344.4
32.5°	4434.2	4448.8	4414.8	4380.8	4358.9	4349.2	4366.2	4407.5	4443.9	4480.4
35°	4640.6	4650.3	4618.8	4555.6	4516.8	4516.8	4531.4	4584.8	4643.1	4689.2
37.5°	4932.0	4944.2	4888.3	4813.0	4754.8	4754.8	4774.2	4830.0	4917.5	4983.0
40°	5286.6	5303.6	5233.2	5155.4	5099.6	5089.9	5114.2	5177.3	5259.9	5342.4
42.5°	5714.0	5733.4	5641.1	5573.1	5529.4	5529.4	5541.6	5599.8	5675.1	5777.1
45°	6260.4	6294.4	6168.1	6100.1	6058.8	6068.5	6075.8	6126.8	6194.8	6311.4
47.5°	6911.2	6945.2	6811.6	6741.2	6733.9	6780.0	6750.9	6787.3	6823.7	6957.3
50°	7649.4	7707.7	7615.4	7610.5	7625.1	7710.1	7642.1	7661.5	7620.3	7705.2
52.5°	8552.7	8637.7	8620.7	8649.9	8812.6	8987.4	8832.0	8764.0	8608.6	8635.3
55°	9647.9	9776.7	9800.9	9975.8	10344.9	10701.9	10371.6	10097.2	9766.9	9706.2
57.5°	10893.7	10995.7	11112.3	11469.2	12158.9	12792.7	12158.9	11551.8	11032.1	10908.3
60°	12234.2	12360.4	12472.2	12999.1	14023.9	14915.1	14004.5	13040.4	12353.2	12185.6
62.5°	13674.2	13836.9	13914.6	14499.8	15694.6	16758.2	15711.6	14543.6	13781.0	13601.3
65°	15055.9	15189.5	15276.9	15901.0	17042.4	18108.4	17120.1	15969.0	15184.7	14949.1
67.5°	15699.5	15772.3	15986.0	16692.7	17897.2	19113.8	18101.1	16768.0	15891.3	15478.5
70°	14757.3	14609.1	15123.9	16255.6	17999.1	19730.6	18232.3	16221.6	15148.2	14478.0
72.5°	11403.7	11148.7	12042.3	13977.7	16833.5	19337.2	16950.1	14087.0	12598.4	11238.5
75°	6204.5	5915.5	7149.1	9597.0	13424.1	16760.7	13732.5	9871.4	7960.2	6158.4
77.5°	1750.9	1641.6	2637.2	4643.1	8074.4	11767.9	8385.2	4745.1	3127.8	1855.3
80°	536.7	519.7	704.2	1398.7	3428.9	5636.3	3295.3	1415.7	896.1	565.8
82.5°	318.1	291.4	349.7	510.0	874.2	1770.3	849.9	531.8	427.4	286.5
85°	182.1	170.0	206.4	247.7	293.8	376.4	245.3	252.6	228.3	153.0
87.5°	75.3	68.0	80.1	77.7	68.0	87.4	65.6	77.7	92.3	60.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
4261.8
4247.2
4193.8
4135.5
4108.8
4108.8
4125.8
4157.4
4189.0
4203.5
4218.1
4254.5
4337.1
4465.8
4672.2
4958.7
5315.7
5769.8
6306.5
6918.5
7654.2
8545.5
9611.5
10820.9
12039.9
13455.6
14832.5
15483.3
14638.3
11576.1
6559.1
2061.7
597.4
310.8
160.3
55.9
0.0

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