

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: P943380

Luminaire Tested: **GALN-SB7D-830-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943380
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-SB7D-830-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 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: 65775 lumens
Efficiency: N/A
Efficacy: 128.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

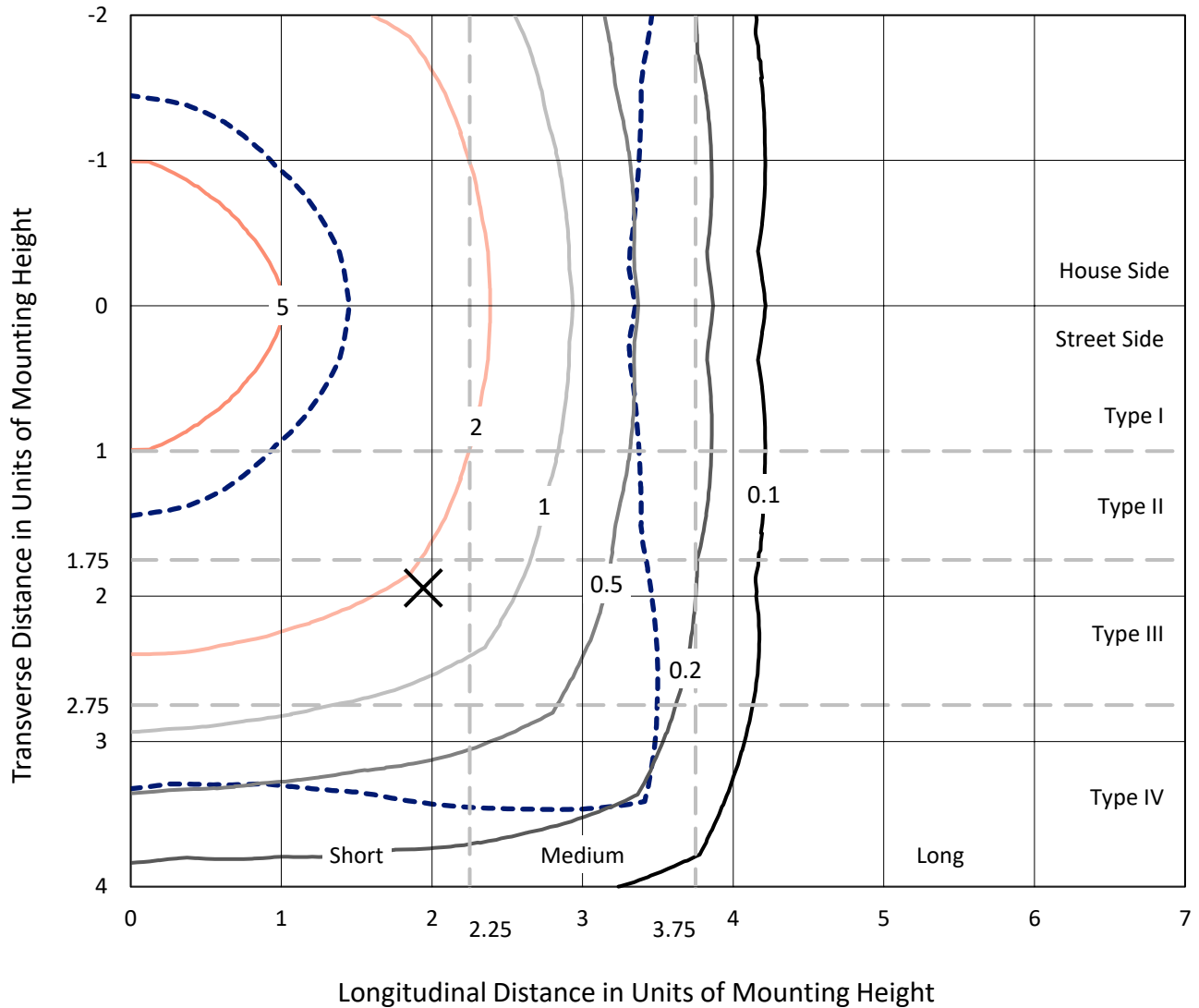
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

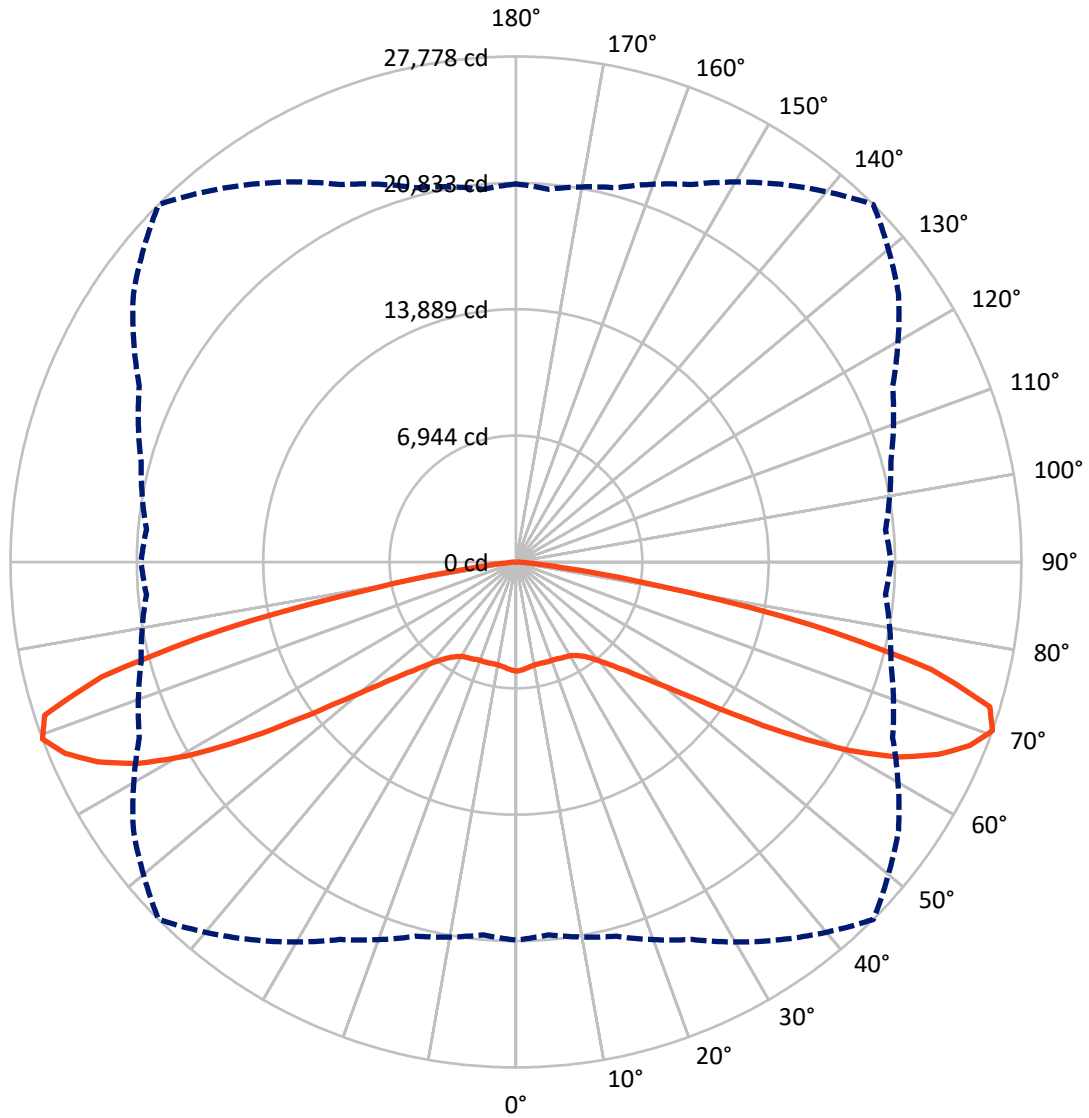
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 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	32887.5	0.0	32887.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	32887.5	0.0	32887.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	65775.0	0.0	65775.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	558.1	0.8
10°-20°	1638.8	2.5
20°-30°	2727.3	4.1
30°-40°	4124.5	6.3
40°-50°	6853.9	10.4
50°-60°	12933.0	19.7
60°-70°	21837.9	33.2
70°-80°	14349.8	21.8
80°-90°	751.8	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°	65775.0	100.0
0°-180°	65775.0	100.0

Coefficient of Utilization



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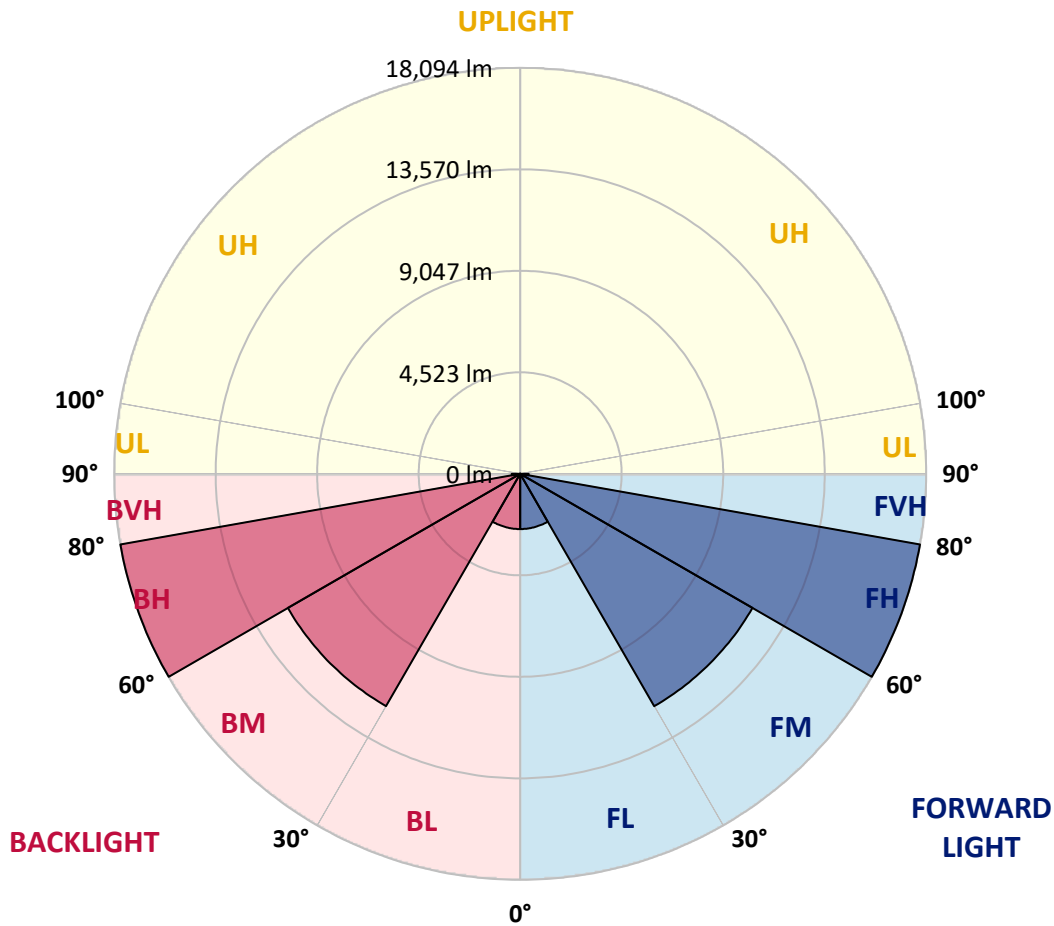
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2462.1	3.7			
FM (30°-60°)	11955.7	18.2			
FH (60°-80°)	18093.8	27.5			G5
FVH (80°-90°)	375.9	0.6			G3/500
BL (0°-30°)	2462.1	3.7	B3/2500		
BM (30°-60°)	11955.7	18.2	B5		
BH (60°-80°)	18093.8	27.5	B5		G5
BVH (80°-90°)	375.9	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°	6000.0	6000.0	6000.0	6000.0	6000.0	6000.0	6000.0	6000.0	6000.0	6000.0
2.5°	5962.4	5979.5	5972.7	5959.0	5959.0	5948.7	5959.0	5965.8	5976.1	5982.9
5°	5883.8	5897.4	5894.0	5883.8	5887.2	5876.9	5883.8	5894.0	5900.9	5904.3
7.5°	5815.4	5829.1	5822.2	5805.1	5805.1	5794.9	5798.3	5808.6	5818.8	5822.2
10°	5798.3	5812.0	5791.5	5764.1	5753.9	5740.2	5743.6	5753.9	5774.4	5784.6
12.5°	5805.1	5815.4	5794.9	5753.9	5743.6	5729.9	5729.9	5740.2	5767.5	5781.2
15°	5825.6	5835.9	5805.1	5760.7	5750.4	5740.2	5736.8	5750.4	5781.2	5805.1
17.5°	5863.3	5873.5	5825.6	5764.1	5750.4	5753.9	5750.4	5760.7	5808.6	5853.0
20°	5897.4	5904.3	5839.3	5764.1	5750.4	5753.9	5750.4	5770.9	5832.5	5894.0
22.5°	5907.7	5914.5	5853.0	5788.0	5777.8	5781.2	5777.8	5798.3	5856.4	5918.0
25°	5911.1	5921.4	5873.5	5822.2	5839.3	5846.2	5839.3	5842.7	5887.2	5941.9
27.5°	5962.4	5976.1	5931.6	5887.2	5897.4	5894.0	5904.3	5914.5	5948.7	6003.4
30°	6068.4	6078.6	6041.0	5996.6	5989.7	5965.8	5996.6	6030.8	6068.4	6116.2
32.5°	6242.7	6263.3	6215.4	6167.5	6136.8	6123.1	6147.0	6205.1	6256.4	6307.7
35°	6533.3	6547.0	6502.6	6413.7	6359.0	6359.0	6379.5	6454.7	6536.8	6601.7
37.5°	6943.6	6960.7	6882.1	6776.1	6694.0	6694.0	6721.4	6800.0	6923.1	7015.4
40°	7442.7	7466.7	7367.5	7258.1	7179.5	7165.8	7200.0	7288.9	7405.1	7521.4
42.5°	8044.5	8071.8	7941.9	7846.2	7784.6	7784.6	7801.7	7883.8	7989.7	8133.3
45°	8813.7	8861.5	8683.8	8588.0	8529.9	8543.6	8553.9	8625.6	8721.4	8885.5
47.5°	9729.9	9777.8	9589.8	9490.6	9480.3	9545.3	9504.3	9555.6	9606.8	9794.9
50°	10769.2	10851.3	10721.4	10714.5	10735.1	10854.7	10759.0	10786.3	10728.2	10847.9
52.5°	12041.0	12160.7	12136.8	12177.8	12406.8	12653.0	12434.2	12338.5	12119.7	12157.3
55°	13582.9	13764.1	13798.3	14044.5	14564.1	15066.7	14601.7	14215.4	13750.4	13665.0
57.5°	15336.8	15480.4	15644.5	16147.0	17118.0	18010.3	17118.0	16263.3	15531.6	15357.3
60°	17223.9	17401.7	17559.0	18300.9	19743.6	20998.3	19716.3	18359.0	17391.5	17155.6
62.5°	19251.3	19480.4	19589.8	20413.7	22095.7	23593.2	22119.7	20475.2	19401.7	19148.7
65°	21196.6	21384.6	21507.7	22386.3	23993.2	25494.0	24102.6	22482.1	21377.8	21046.2
67.5°	22102.6	22205.1	22506.0	23500.9	25196.6	26909.4	25483.8	23606.9	22372.7	21791.5
70°	20776.1	20567.5	21292.3	22885.5	25340.2	27777.8	25668.4	22837.6	21326.5	20382.9
72.5°	16054.7	15695.7	16953.9	19678.6	23699.2	27224.0	23863.3	19832.5	17736.8	15822.2
75°	8735.0	8328.2	10065.0	13511.1	18899.2	23596.6	19333.3	13897.4	11206.8	8670.1
77.5°	2465.0	2311.1	3712.8	6536.8	11367.5	16567.5	11805.1	6680.3	4403.4	2612.0
80°	755.6	731.6	991.5	1969.2	4827.4	7935.0	4639.3	1993.2	1261.5	796.6
82.5°	447.9	410.3	492.3	717.9	1230.8	2492.3	1196.6	748.7	601.7	403.4
85°	256.4	239.3	290.6	348.7	413.7	529.9	345.3	355.6	321.4	215.4
87.5°	106.0	95.7	112.8	109.4	95.7	123.1	92.3	109.4	129.9	85.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
6000.0
5979.5
5904.3
5822.2
5784.6
5784.6
5808.6
5853.0
5897.4
5918.0
5938.5
5989.7
6106.0
6287.2
6577.8
6981.2
7483.8
8123.1
8878.6
9740.2
10776.1
12030.8
13531.6
15234.2
16950.4
18943.6
20882.1
21798.3
20608.6
16297.4
9234.2
2902.6
841.0
437.6
225.6
78.6
0.0

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