

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: P943890

Luminaire Tested: **GALN-SB8C-830-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943890
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-SB8C-830-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55041 lumens
Efficiency: N/A
Efficacy: 137.7 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

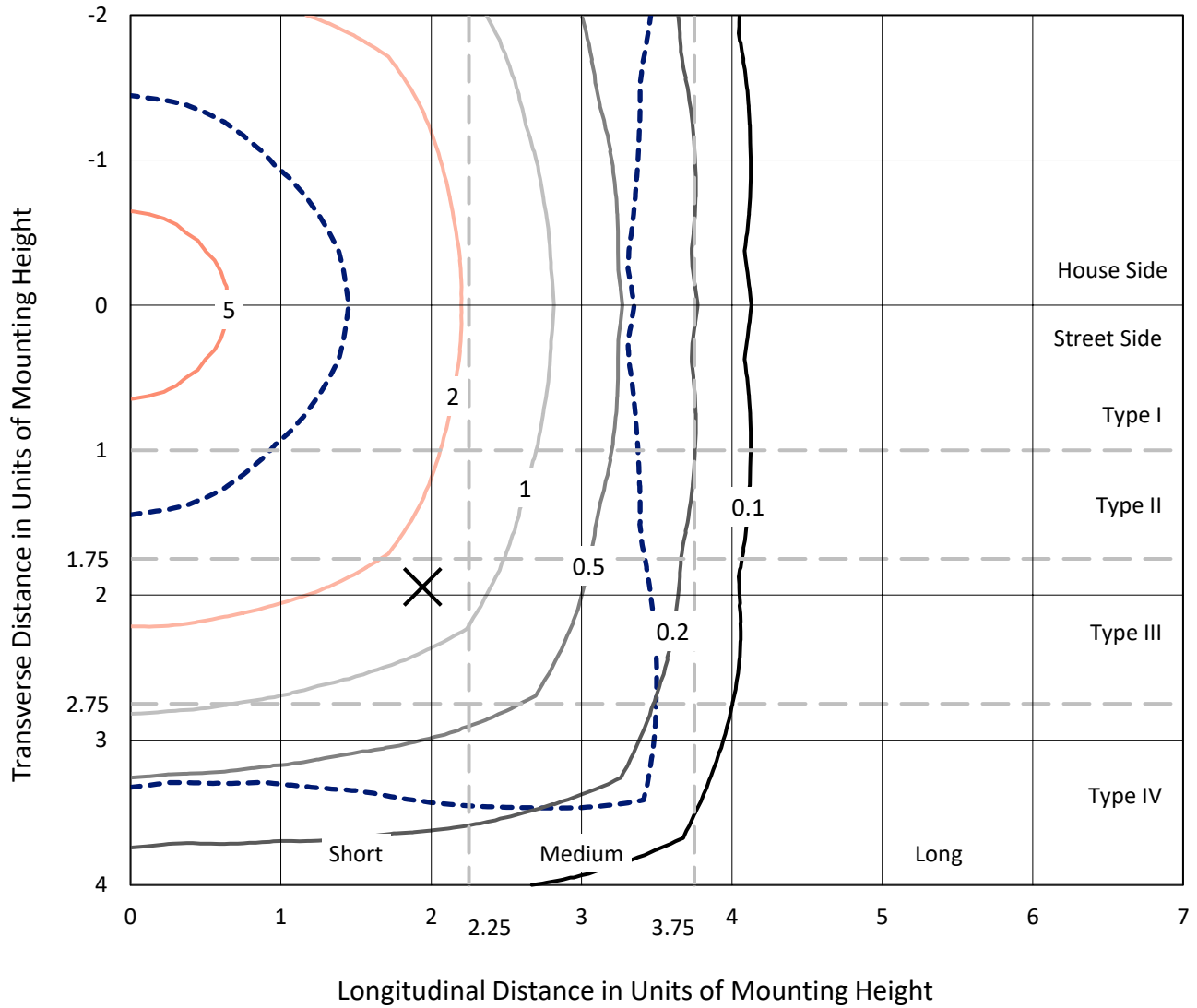
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

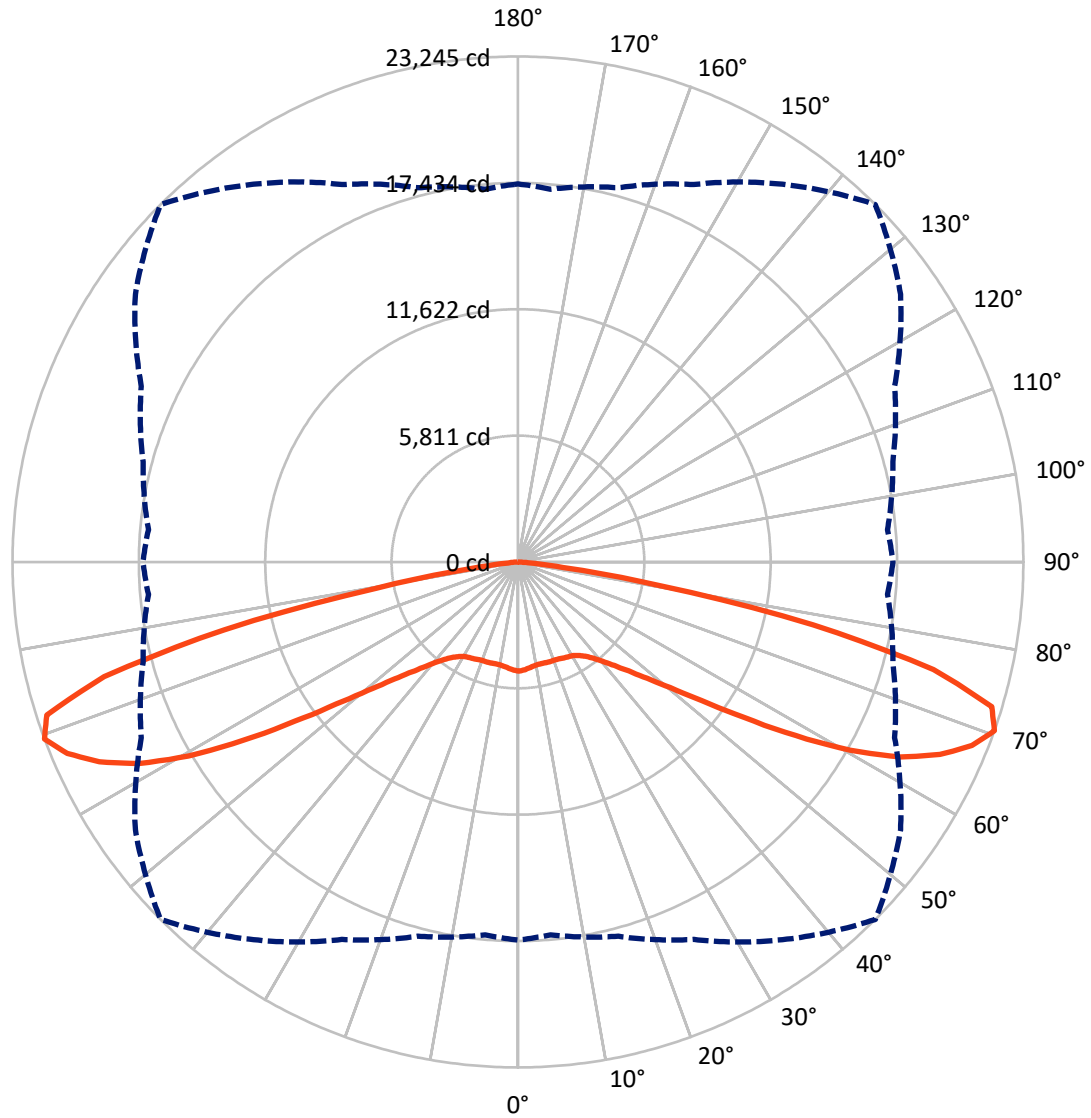
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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
House Side	Lumens	27520.5	0.0	27520.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	27520.5	0.0	27520.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	55041.0	0.0	55041.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	467.1	0.8
10°-20°	1371.4	2.5
20°-30°	2282.2	4.1
30°-40°	3451.4	6.3
40°-50°	5735.4	10.4
50°-60°	10822.4	19.7
60°-70°	18274.1	33.2
70°-80°	12008.0	21.8
80°-90°	629.1	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°	55041.0	100.0
0°-180°	55041.0	100.0



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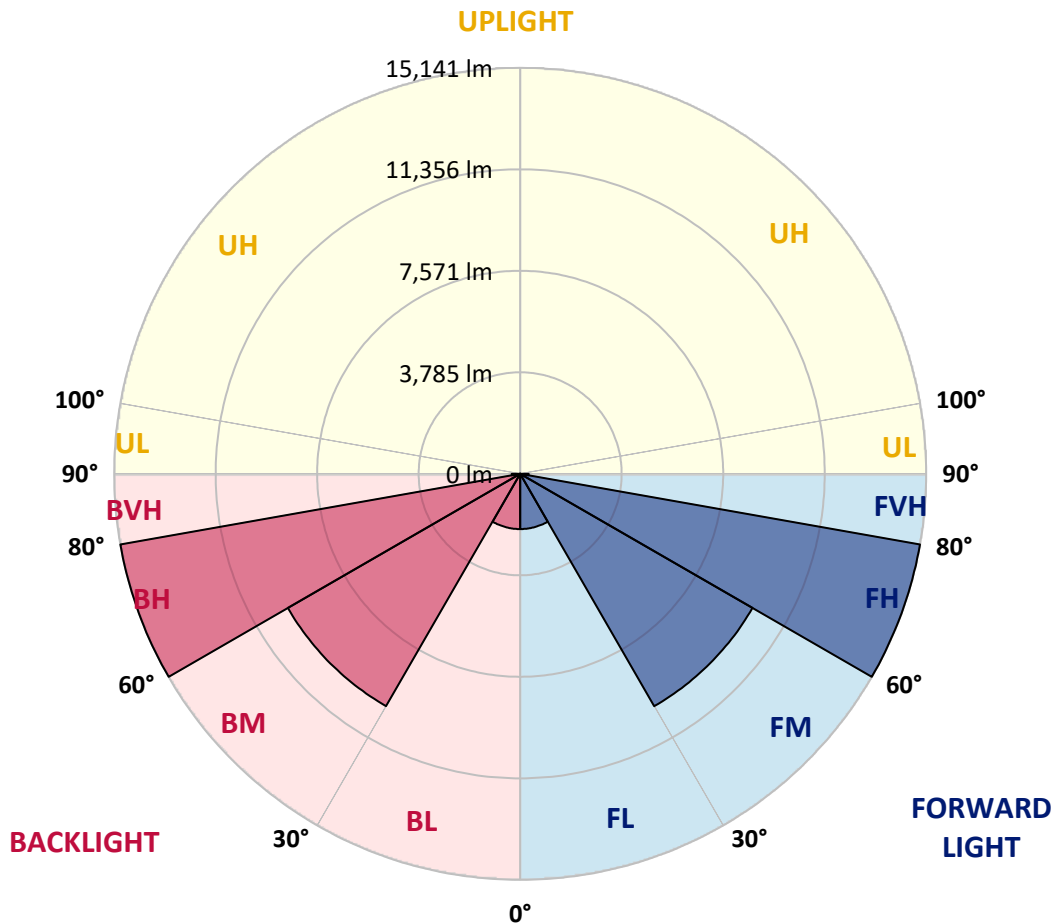
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2060.3	3.7			
FM (30°-60°)	10004.6	18.2			
FH (60°-80°)	15141.0	27.5			G5
FVH (80°-90°)	314.5	0.6			G3/500
BL (0°-30°)	2060.3	3.7	B3/2500		
BM (30°-60°)	10004.6	18.2	B5		
BH (60°-80°)	15141.0	27.5	B5		G5
BVH (80°-90°)	314.5	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°	5020.8	5020.8	5020.8	5020.8	5020.8	5020.8	5020.8	5020.8	5020.8	5020.8
2.5°	4989.4	5003.7	4998.0	4986.5	4986.5	4977.9	4986.5	4992.2	5000.8	5006.5
5°	4923.6	4935.0	4932.2	4923.6	4926.4	4917.9	4923.6	4932.2	4937.9	4940.7
7.5°	4866.4	4877.8	4872.1	4857.8	4857.8	4849.2	4852.1	4860.6	4869.2	4872.1
10°	4852.1	4863.5	4846.3	4823.4	4814.9	4803.4	4806.3	4814.9	4832.0	4840.6
12.5°	4857.8	4866.4	4849.2	4814.9	4806.3	4794.8	4794.8	4803.4	4826.3	4837.8
15°	4874.9	4883.5	4857.8	4820.6	4812.0	4803.4	4800.6	4812.0	4837.8	4857.8
17.5°	4906.4	4915.0	4874.9	4823.4	4812.0	4814.9	4812.0	4820.6	4860.6	4897.8
20°	4935.0	4940.7	4886.4	4823.4	4812.0	4814.9	4812.0	4829.2	4880.7	4932.2
22.5°	4943.6	4949.3	4897.8	4843.5	4834.9	4837.8	4834.9	4852.1	4900.7	4952.2
25°	4946.5	4955.0	4915.0	4872.1	4886.4	4892.1	4886.4	4889.2	4926.4	4972.2
27.5°	4989.4	5000.8	4963.6	4926.4	4935.0	4932.2	4940.7	4949.3	4977.9	5023.7
30°	5078.1	5086.6	5055.2	5018.0	5012.3	4992.2	5018.0	5046.6	5078.1	5118.1
32.5°	5224.0	5241.1	5201.1	5161.0	5135.3	5123.8	5143.9	5192.5	5235.4	5278.3
35°	5467.1	5478.6	5441.4	5367.0	5321.2	5321.2	5338.4	5401.3	5470.0	5524.4
37.5°	5810.5	5824.8	5759.0	5670.3	5601.6	5601.6	5624.5	5690.3	5793.3	5870.5
40°	6228.1	6248.2	6165.2	6073.7	6007.9	5996.4	6025.0	6099.4	6196.7	6293.9
42.5°	6731.7	6754.5	6645.8	6565.7	6514.2	6514.2	6528.5	6597.2	6685.9	6806.0
45°	7375.4	7415.4	7266.6	7186.5	7137.9	7149.3	7157.9	7218.0	7298.1	7435.4
47.5°	8142.1	8182.1	8024.8	7941.8	7933.2	7987.6	7953.3	7996.2	8039.1	8196.4
50°	9011.8	9080.4	8971.7	8966.0	8983.2	9083.3	9003.2	9026.1	8977.4	9077.6
52.5°	10076.0	10176.2	10156.1	10190.5	10382.1	10588.1	10405.0	10324.9	10141.8	10173.3
55°	11366.3	11517.9	11546.5	11752.5	12187.4	12607.9	12218.8	11895.5	11506.5	11434.9
57.5°	12833.9	12954.1	13091.4	13511.9	14324.4	15071.1	14324.4	13609.2	12997.0	12851.1
60°	14413.1	14561.9	14693.5	15314.3	16521.6	17571.5	16498.7	15362.9	14553.3	14355.9
62.5°	16109.6	16301.3	16392.9	17082.3	18489.9	19742.9	18509.9	17133.8	16235.5	16023.8
65°	17737.5	17894.8	17997.8	18733.1	20077.7	21333.6	20169.2	18813.2	17889.1	17611.6
67.5°	18495.6	18581.4	18833.2	19665.7	21084.7	22518.0	21325.0	19754.4	18721.6	18235.3
70°	17385.6	17211.1	17817.6	19150.7	21204.9	23244.7	21479.5	19110.7	17846.2	17056.6
72.5°	13434.7	13134.3	14187.1	16467.2	19831.6	22781.2	19969.0	16596.0	14842.3	13240.2
75°	7309.6	6969.1	8422.4	11306.2	15815.0	19745.8	16178.3	11629.5	9378.0	7255.2
77.5°	2062.7	1934.0	3106.9	5470.0	9512.4	13863.8	9878.6	5590.2	3684.8	2185.7
80°	632.3	612.2	829.7	1647.9	4039.6	6640.1	3882.2	1667.9	1055.7	666.6
82.5°	374.8	343.3	412.0	600.8	1029.9	2085.6	1001.3	626.5	503.5	337.6
85°	214.6	200.3	243.2	291.8	346.2	443.4	288.9	297.5	268.9	180.2
87.5°	88.7	80.1	94.4	91.5	80.1	103.0	77.2	91.5	108.7	71.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
5020.8
5003.7
4940.7
4872.1
4840.6
4840.6
4860.6
4897.8
4935.0
4952.2
4969.4
5012.3
5109.5
5261.2
5504.3
5841.9
6262.5
6797.5
7429.7
8150.7
9017.5
10067.4
11323.4
12748.1
14184.3
15852.1
17474.3
18241.0
17245.4
13637.8
7727.2
2428.9
703.8
366.2
188.8
65.8
0.0

OF REPORT)