

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: P949997

Luminaire Tested: **GALN-SB4C-830-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949997
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-SB4C-830-U-5NQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28261 lumens
Efficiency: N/A
Efficacy: 140.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

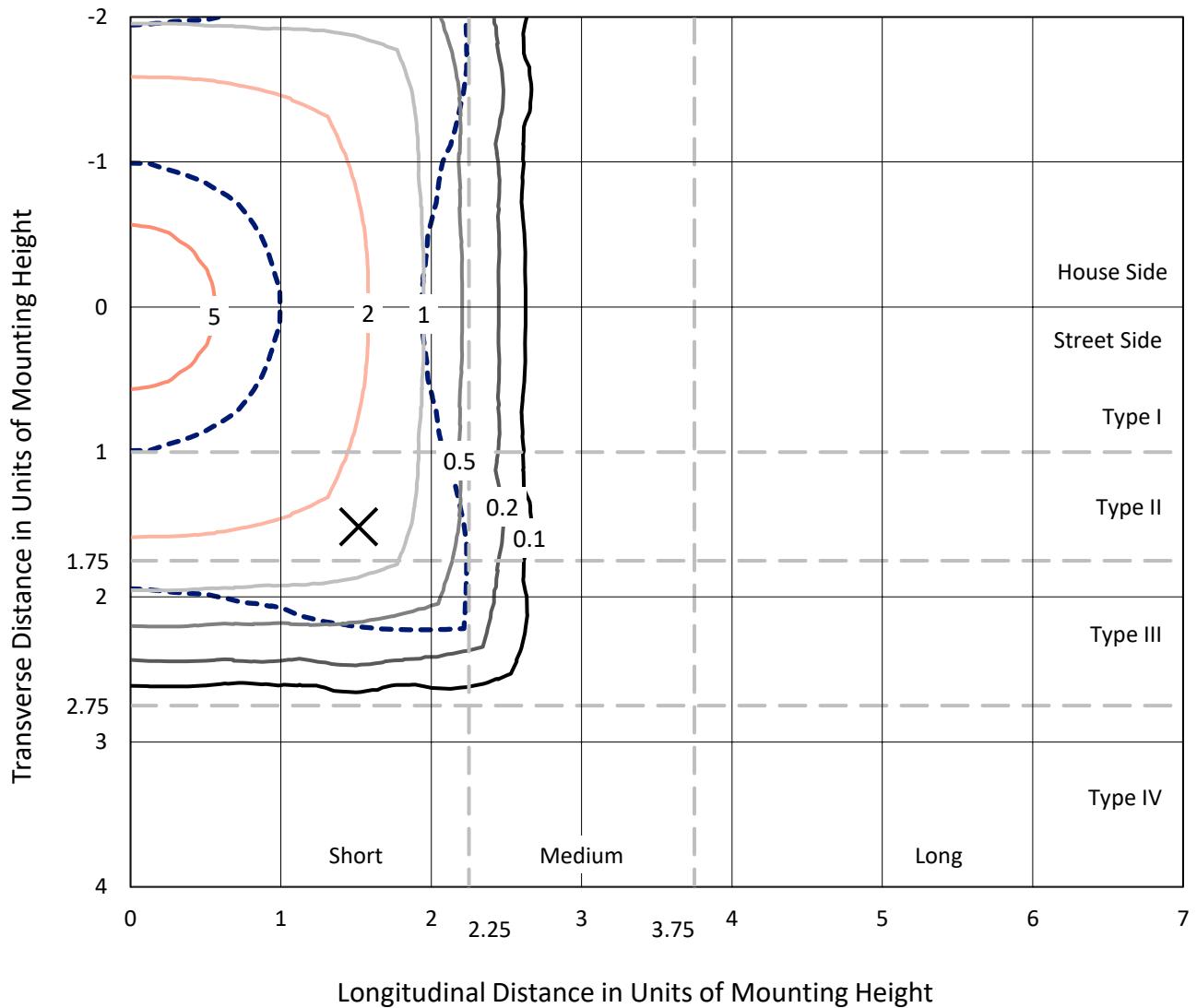
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

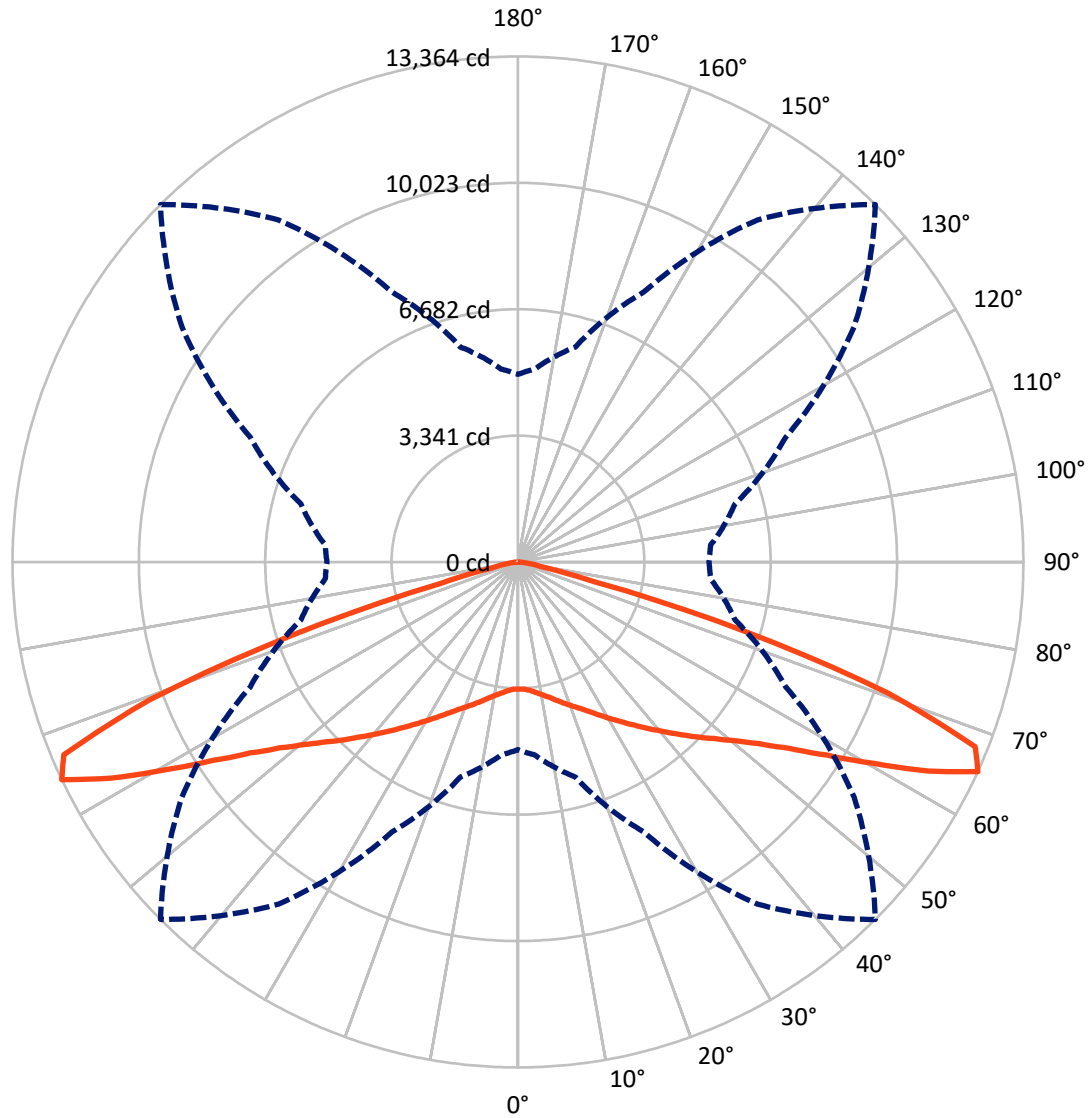
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 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	14130.5	0.0	14130.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14130.5	0.0	14130.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	28261.0	0.0	28261.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	331.9	1.2
10°-20°	1083.1	3.8
20°-30°	2045.0	7.2
30°-40°	3348.7	11.8
40°-50°	5192.2	18.4
50°-60°	7669.9	27.1
60°-70°	7301.0	25.8
70°-80°	1178.1	4.2
80°-90°	111.0	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°	28261.0	100.0
0°-180°	28261.0	100.0

Coefficient of Utilization



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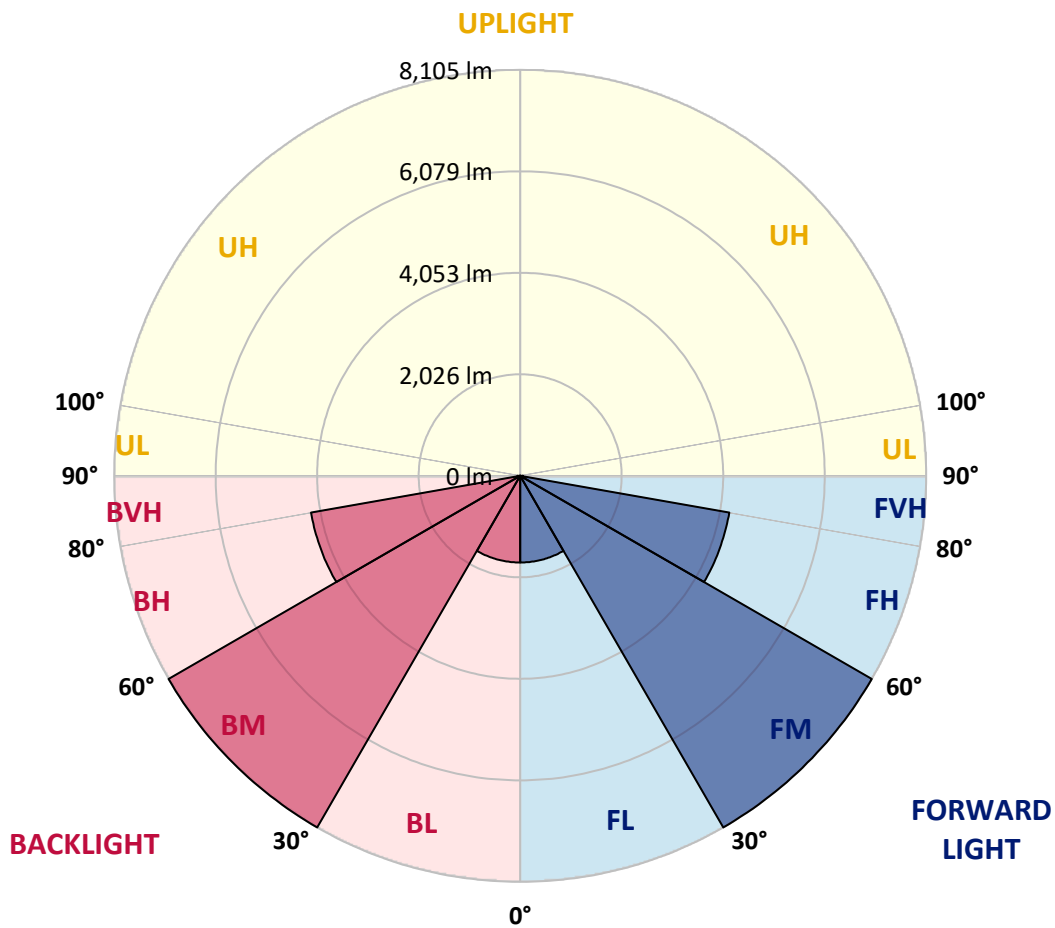
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1730.0	6.1			
FM	(30°-60°)	8105.4	28.7			
FH	(60°-80°)	4239.6	15.0			G2/5000
FVH	(80°-90°)	55.5	0.2			G1/100
BL	(0°-30°)	1730.0	6.1	B3/2500		
BM	(30°-60°)	8105.4	28.7	B4/8500		
BH	(60°-80°)	4239.6	15.0	B4/5000		G2/5000
BVH	(80°-90°)	55.5	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3363.3	3363.3	3363.3	3363.3	3363.3	3363.3	3363.3	3363.3	3363.3	3363.3
2.5°	3386.0	3374.7	3383.2	3376.1	3370.4	3364.8	3367.6	3377.5	3381.8	3383.2
5°	3431.4	3421.5	3425.7	3425.7	3415.8	3413.0	3414.4	3421.5	3430.0	3430.0
7.5°	3505.1	3495.2	3505.1	3499.5	3491.0	3488.1	3486.7	3492.4	3505.1	3505.1
10°	3594.5	3583.1	3588.8	3586.0	3576.0	3571.8	3570.4	3578.9	3590.2	3588.8
12.5°	3692.3	3679.5	3686.6	3678.1	3675.3	3671.0	3671.0	3669.6	3676.7	3671.0
15°	3801.5	3793.0	3795.8	3790.1	3794.4	3791.6	3780.2	3774.5	3777.4	3768.9
17.5°	3930.5	3910.7	3920.6	3917.8	3917.8	3923.4	3905.0	3897.9	3903.6	3895.1
20°	4079.4	4059.5	4063.8	4058.1	4051.0	4056.7	4034.0	4039.7	4044.0	4038.3
22.5°	4242.5	4216.9	4215.5	4218.4	4202.8	4204.2	4188.6	4202.8	4211.3	4195.7
25°	4409.8	4382.8	4401.3	4394.2	4374.3	4378.6	4367.2	4381.4	4388.5	4368.7
27.5°	4587.0	4568.6	4585.6	4589.9	4565.8	4582.8	4565.8	4578.5	4585.6	4555.8
30°	4794.0	4775.6	4791.2	4802.5	4774.2	4801.1	4786.9	4795.5	4796.9	4761.4
32.5°	5019.5	4991.1	5030.8	5036.5	5005.3	5037.9	5019.5	5030.8	5037.9	4989.7
35°	5294.6	5259.1	5304.5	5297.4	5270.5	5297.4	5280.4	5297.4	5314.4	5256.3
37.5°	5590.9	5554.1	5602.3	5589.5	5564.0	5582.4	5572.5	5583.8	5610.8	5548.4
40°	5917.0	5871.7	5936.9	5914.2	5890.1	5887.3	5892.9	5900.0	5935.5	5866.0
42.5°	6265.9	6217.6	6315.5	6280.0	6246.0	6223.3	6241.7	6255.9	6290.0	6212.0
45°	6664.3	6609.0	6736.6	6694.1	6640.2	6593.4	6623.2	6644.4	6694.1	6600.5
47.5°	7103.9	7041.5	7177.6	7164.8	7076.9	6974.8	7042.9	7103.9	7140.7	7027.3
50°	7533.5	7485.3	7663.9	7679.5	7571.8	7428.6	7523.6	7615.7	7625.7	7476.8
52.5°	7936.2	7888.0	8147.5	8245.3	8148.9	7978.7	8079.4	8173.0	8097.8	7905.0
55°	8258.1	8218.4	8548.7	8801.1	8833.7	8693.4	8752.9	8750.1	8503.4	8207.0
57.5°	8336.0	8330.4	8747.2	9281.8	9622.1	9639.1	9521.4	9220.8	8689.1	8290.7
60°	7981.6	8017.0	8589.8	9532.8	10440.3	10817.4	10308.4	9450.5	8477.8	7924.8
62.5°	6920.9	7014.5	7705.1	9226.5	11101.0	12173.0	10939.4	9101.7	7610.1	6888.3
65°	4959.9	5123.0	5885.8	7873.8	11041.5	13364.0	10848.6	7810.0	5942.6	5110.2
67.5°	2250.3	2416.2	3064.2	5391.0	9598.0	13040.7	9575.3	5447.7	3217.3	2424.7
70°	815.3	843.7	1052.1	2158.1	6134.0	10390.6	6396.3	2173.7	1118.8	899.0
72.5°	493.4	497.7	541.7	772.8	2131.2	6308.4	2221.9	798.3	553.0	490.6
75°	313.4	310.5	385.7	472.2	755.8	2128.3	792.6	472.2	384.3	350.2
77.5°	225.5	232.5	276.5	353.1	476.4	721.7	467.9	337.5	276.5	226.9
80°	168.7	173.0	201.3	275.1	334.6	449.5	297.8	249.6	208.4	141.8
82.5°	121.9	121.9	131.9	199.9	204.2	242.5	161.6	175.8	137.5	100.7
85°	72.3	70.9	82.2	119.1	106.3	89.3	73.7	107.8	86.5	62.4
87.5°	25.5	26.9	25.5	34.0	28.4	24.1	22.7	29.8	24.1	21.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
3363.3
3383.2
3430.0
3500.9
3586.0
3673.9
3770.3
3902.2
4051.0
4211.3
4391.3
4578.5
4782.7
5022.3
5291.7
5586.7
5888.7
6253.1
6648.7
7065.6
7495.2
7910.7
8216.9
8265.1
7859.6
6845.8
5049.3
2389.2
887.6
499.1
353.1
231.1
146.0
100.7
61.0
19.9
0.0

OF REPORT)