

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: P950039

Luminaire Tested: **GALN-SB4C-840-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950039
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-840-U-5NQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30085 lumens
Efficiency: N/A
Efficacy: 149.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

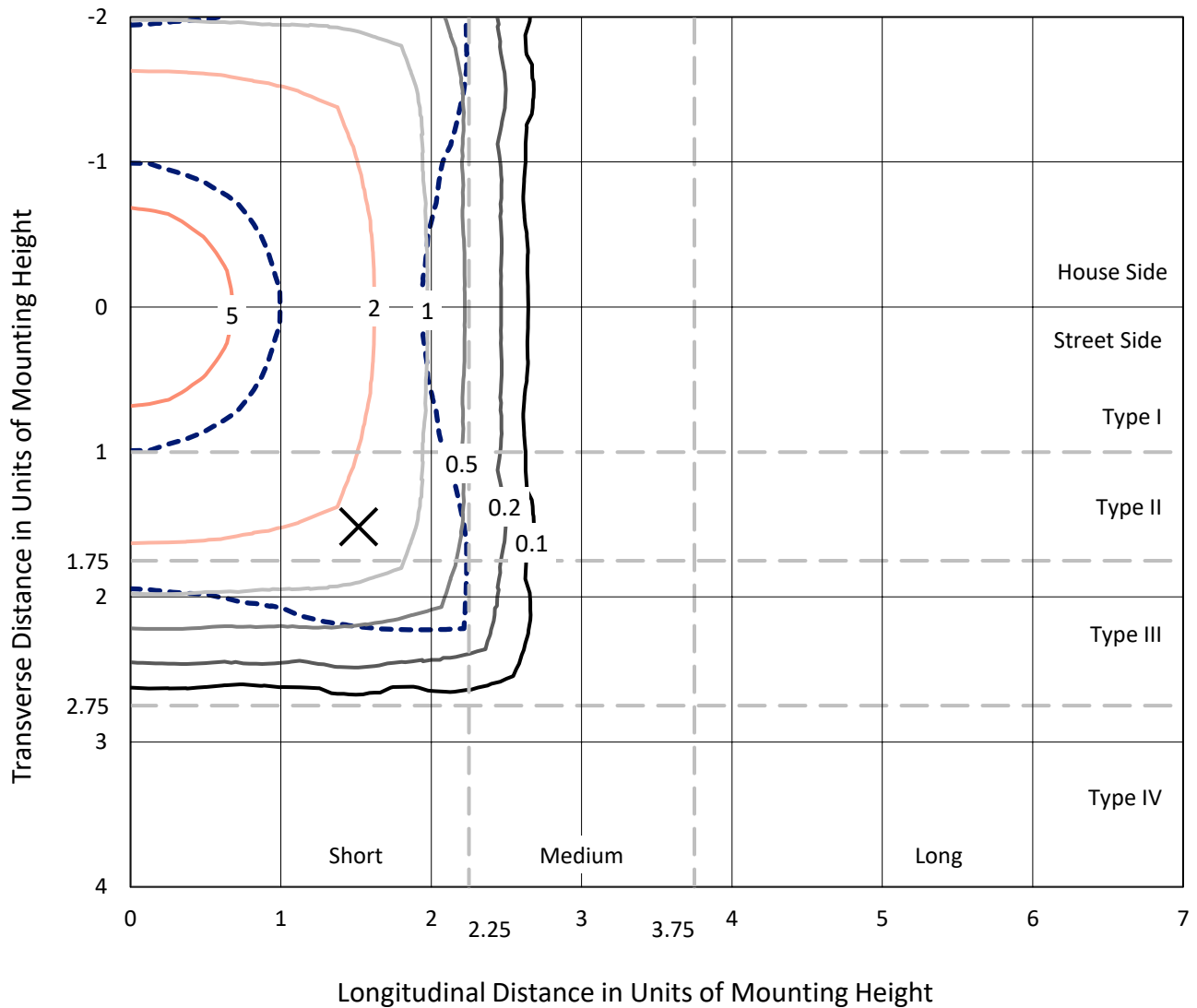
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

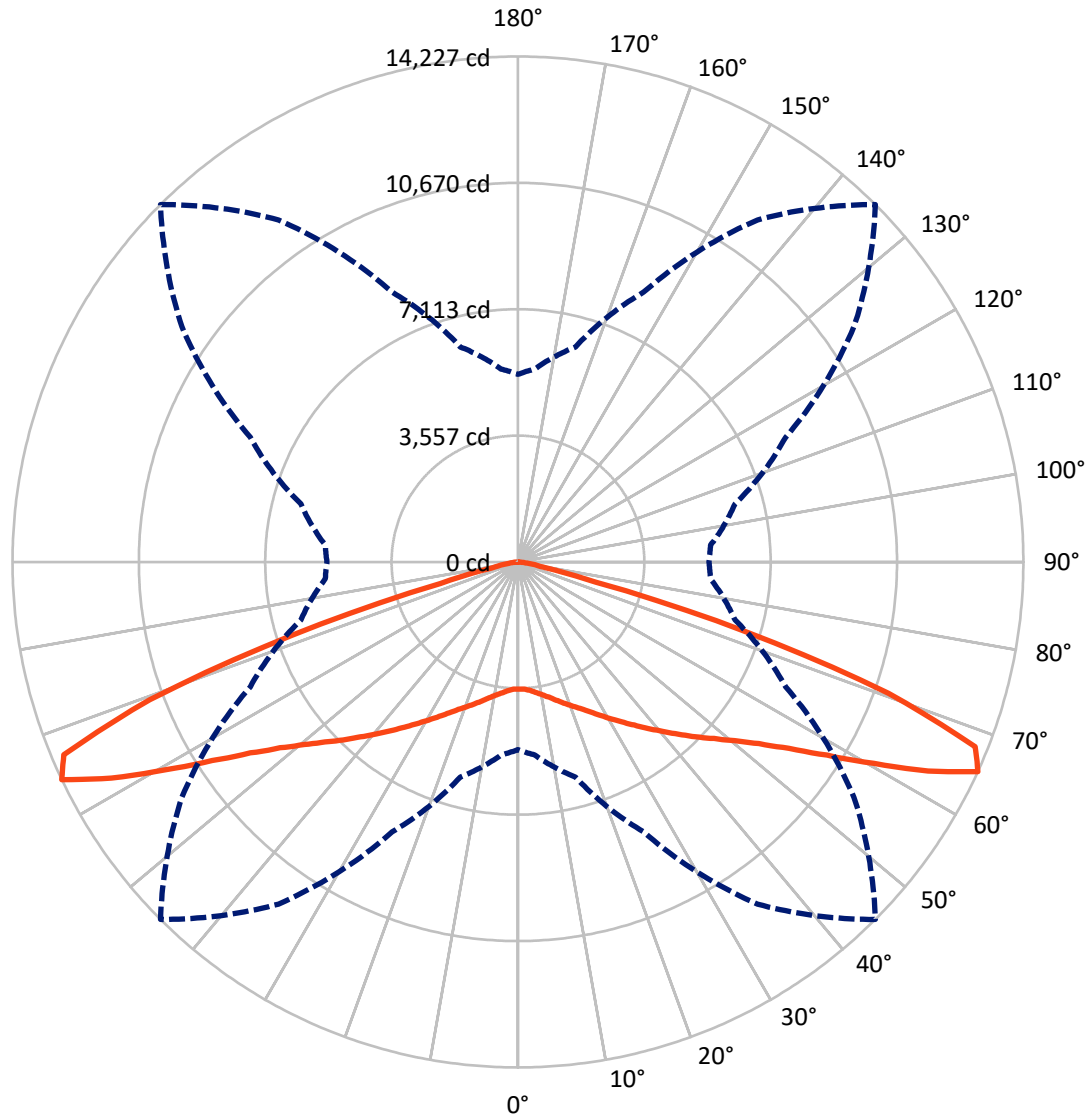
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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	15042.5	0.0	15042.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15042.5	0.0	15042.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	30085.0	0.0	30085.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	353.4	1.2
10°-20°	1153.0	3.8
20°-30°	2177.0	7.2
30°-40°	3564.8	11.8
40°-50°	5527.3	18.4
50°-60°	8164.9	27.1
60°-70°	7772.2	25.8
70°-80°	1254.2	4.2
80°-90°	118.2	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°	30085.0	100.0
0°-180°	30085.0	100.0



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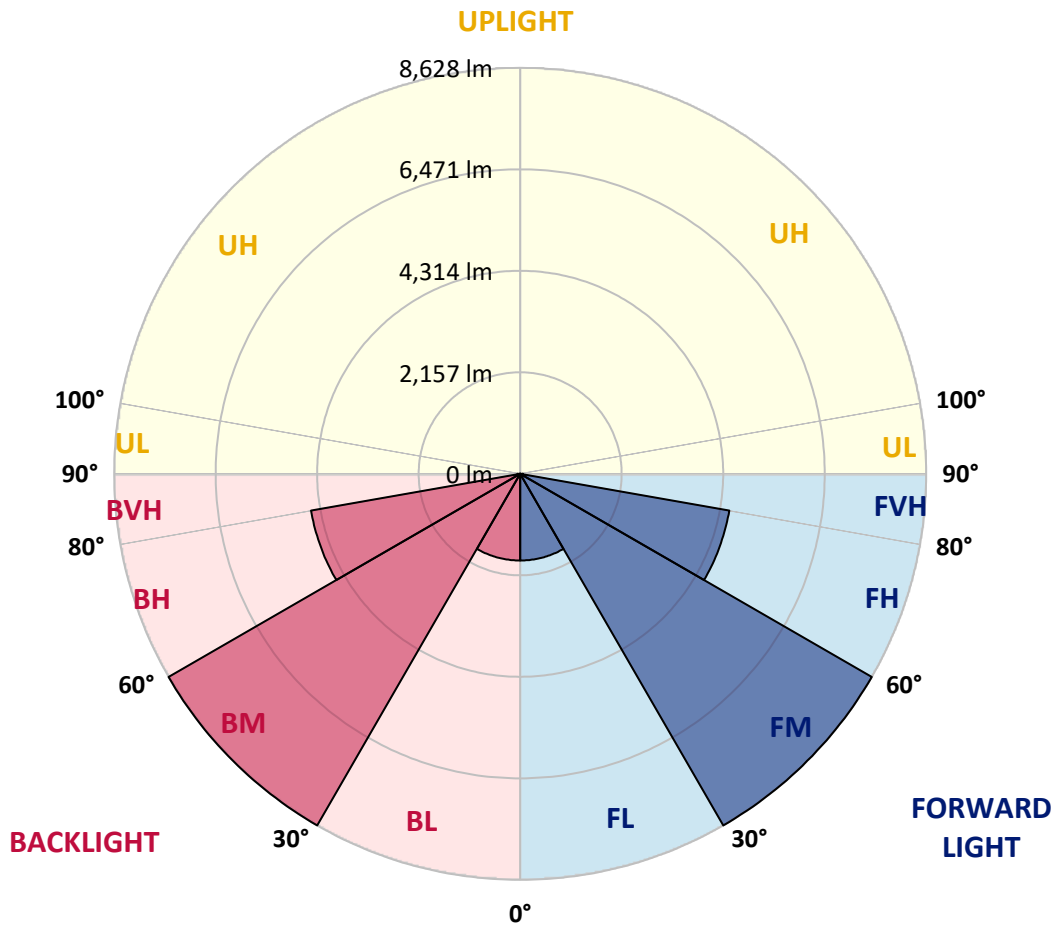
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1841.7	6.1			
FM (30°-60°)	8628.5	28.7			
FH (60°-80°)	4513.2	15.0			G2/5000
FVH (80°-90°)	59.1	0.2			G1/100
BL (0°-30°)	1841.7	6.1	B3/2500		
BM (30°-60°)	8628.5	28.7	B5		
BH (60°-80°)	4513.2	15.0	B4/5000		G2/5000
BVH (80°-90°)	59.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3580.4	3580.4	3580.4	3580.4	3580.4	3580.4	3580.4	3580.4	3580.4	3580.4
2.5°	3604.6	3592.5	3601.5	3594.0	3588.0	3581.9	3584.9	3595.5	3600.0	3601.5
5°	3652.9	3642.3	3646.8	3646.8	3636.3	3633.2	3634.8	3642.3	3651.4	3651.4
7.5°	3731.4	3720.8	3731.4	3725.3	3716.3	3713.2	3711.7	3717.8	3731.4	3731.4
10°	3826.5	3814.4	3820.4	3817.4	3806.8	3802.3	3800.8	3809.9	3821.9	3820.4
12.5°	3930.6	3917.0	3924.6	3915.5	3912.5	3908.0	3908.0	3906.5	3914.0	3908.0
15°	4046.8	4037.8	4040.8	4034.8	4039.3	4036.3	4024.2	4018.2	4021.2	4012.1
17.5°	4184.2	4163.1	4173.6	4170.6	4170.6	4176.6	4157.0	4149.5	4155.5	4146.5
20°	4342.7	4321.6	4326.1	4320.0	4312.5	4318.5	4294.4	4300.4	4305.0	4298.9
22.5°	4516.3	4489.1	4487.6	4490.6	4474.0	4475.5	4458.9	4474.0	4483.1	4466.5
25°	4694.4	4665.7	4685.3	4677.8	4656.7	4661.2	4649.1	4664.2	4671.7	4650.6
27.5°	4883.1	4863.4	4881.6	4886.1	4860.4	4878.5	4860.4	4874.0	4881.6	4849.9
30°	5103.5	5083.8	5100.4	5112.5	5082.3	5111.0	5095.9	5105.0	5106.5	5068.7
32.5°	5343.5	5313.3	5355.5	5361.6	5328.4	5363.1	5343.5	5355.5	5363.1	5311.8
35°	5636.3	5598.6	5646.9	5639.3	5610.6	5639.3	5621.2	5639.3	5657.4	5595.5
37.5°	5951.8	5912.5	5963.8	5950.3	5923.1	5942.7	5932.1	5944.2	5972.9	5906.5
40°	6298.9	6250.6	6320.1	6295.9	6270.3	6267.2	6273.3	6280.8	6318.6	6244.6
42.5°	6670.3	6618.9	6723.1	6685.4	6649.1	6625.0	6644.6	6659.7	6695.9	6612.9
45°	7094.4	7035.5	7171.4	7126.1	7068.8	7018.9	7050.6	7073.3	7126.1	7026.5
47.5°	7562.3	7495.9	7640.8	7627.3	7533.7	7425.0	7497.4	7562.3	7601.6	7480.8
50°	8019.7	7968.4	8158.6	8175.2	8060.5	7908.0	8009.1	8107.3	8117.8	7959.3
52.5°	8448.4	8397.1	8673.3	8777.5	8674.8	8493.7	8600.8	8700.5	8620.5	8415.2
55°	8791.0	8748.8	9100.5	9369.2	9403.9	9254.4	9317.8	9314.8	9052.2	8736.7
57.5°	8874.1	8868.0	9311.8	9880.9	10243.1	10261.2	10136.0	9816.0	9249.9	8825.8
60°	8496.7	8534.4	9144.2	10148.0	11114.1	11515.6	10973.7	10060.5	9025.0	8436.3
62.5°	7367.6	7467.3	8202.4	9822.0	11817.5	12958.6	11645.4	9689.2	8101.2	7332.9
65°	5280.1	5453.6	6265.7	8382.0	11754.1	14226.6	11548.8	8314.1	6326.1	5440.1
67.5°	2395.5	2572.1	3261.9	5738.9	10217.5	13882.4	10193.3	5799.3	3424.9	2581.2
70°	867.9	898.1	1120.0	2297.4	6529.9	11061.3	6809.1	2314.0	1191.0	957.0
72.5°	525.3	529.8	576.6	822.7	2268.7	6715.5	2365.3	849.8	588.7	522.3
75°	333.6	330.6	410.6	502.6	804.5	2265.7	843.8	502.6	409.1	372.8
77.5°	240.0	247.5	294.3	375.9	507.2	768.3	498.1	359.2	294.3	241.5
80°	179.6	184.2	214.3	292.8	356.2	478.5	317.0	265.7	221.9	150.9
82.5°	129.8	129.8	140.4	212.8	217.4	258.1	172.1	187.2	146.4	107.2
85°	77.0	75.5	87.5	126.8	113.2	95.1	78.5	114.7	92.1	66.4
87.5°	27.2	28.7	27.2	36.2	30.2	25.7	24.2	31.7	25.7	22.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
3580.4
3601.5
3651.4
3726.8
3817.4
3911.0
4013.6
4154.0
4312.5
4483.1
4674.8
4874.0
5091.4
5346.5
5633.3
5947.2
6268.7
6656.7
7077.8
7521.6
7979.0
8421.2
8747.3
8798.6
8366.9
7287.6
5375.2
2543.4
944.9
531.3
375.9
246.0
155.5
107.2
64.9
21.1
0.0

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