

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: P532903

Luminaire Tested: **GALN-SA8B-740-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532903
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8B-740-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31565 lumens
Efficiency: N/A
Efficacy: 97.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

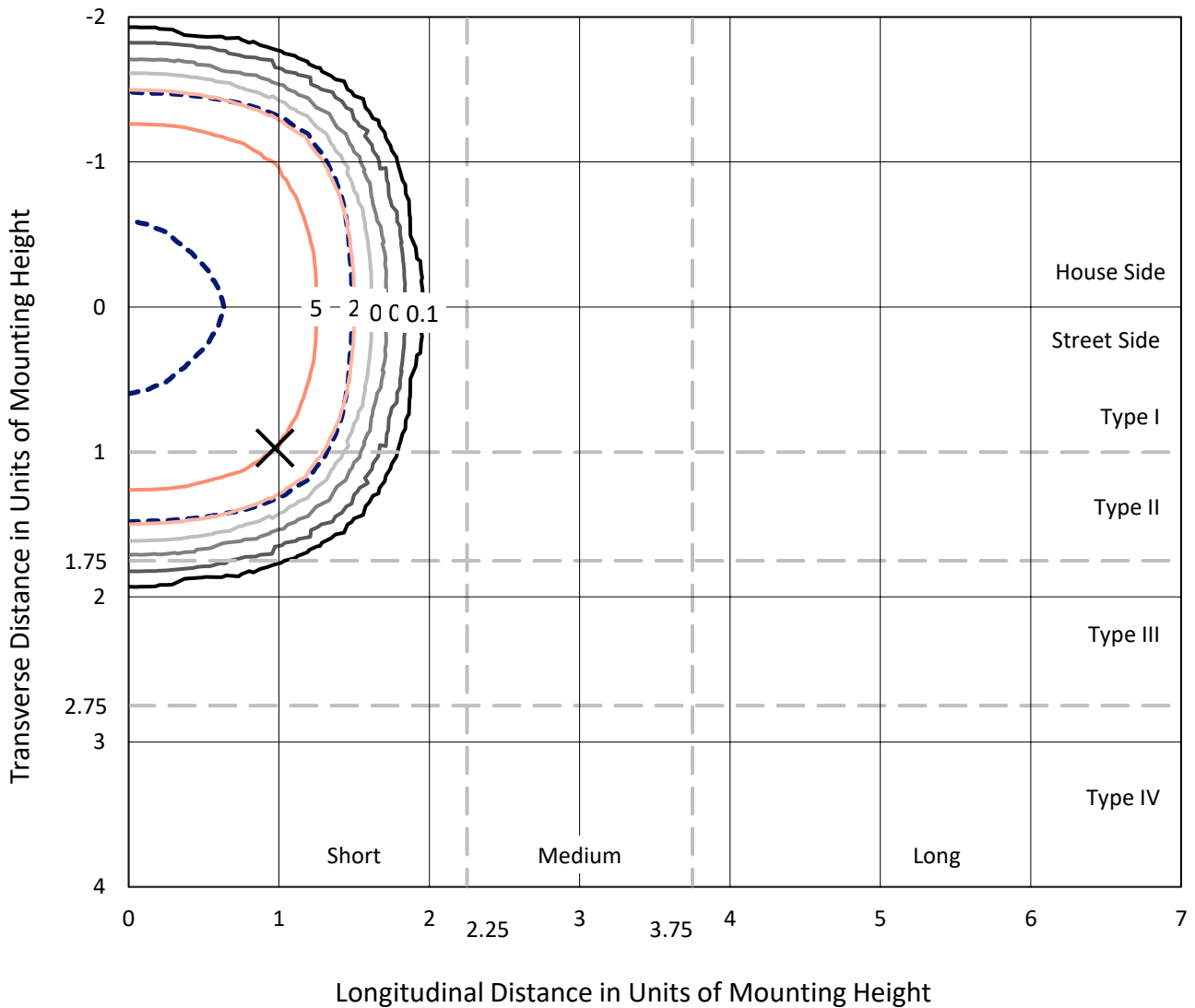
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

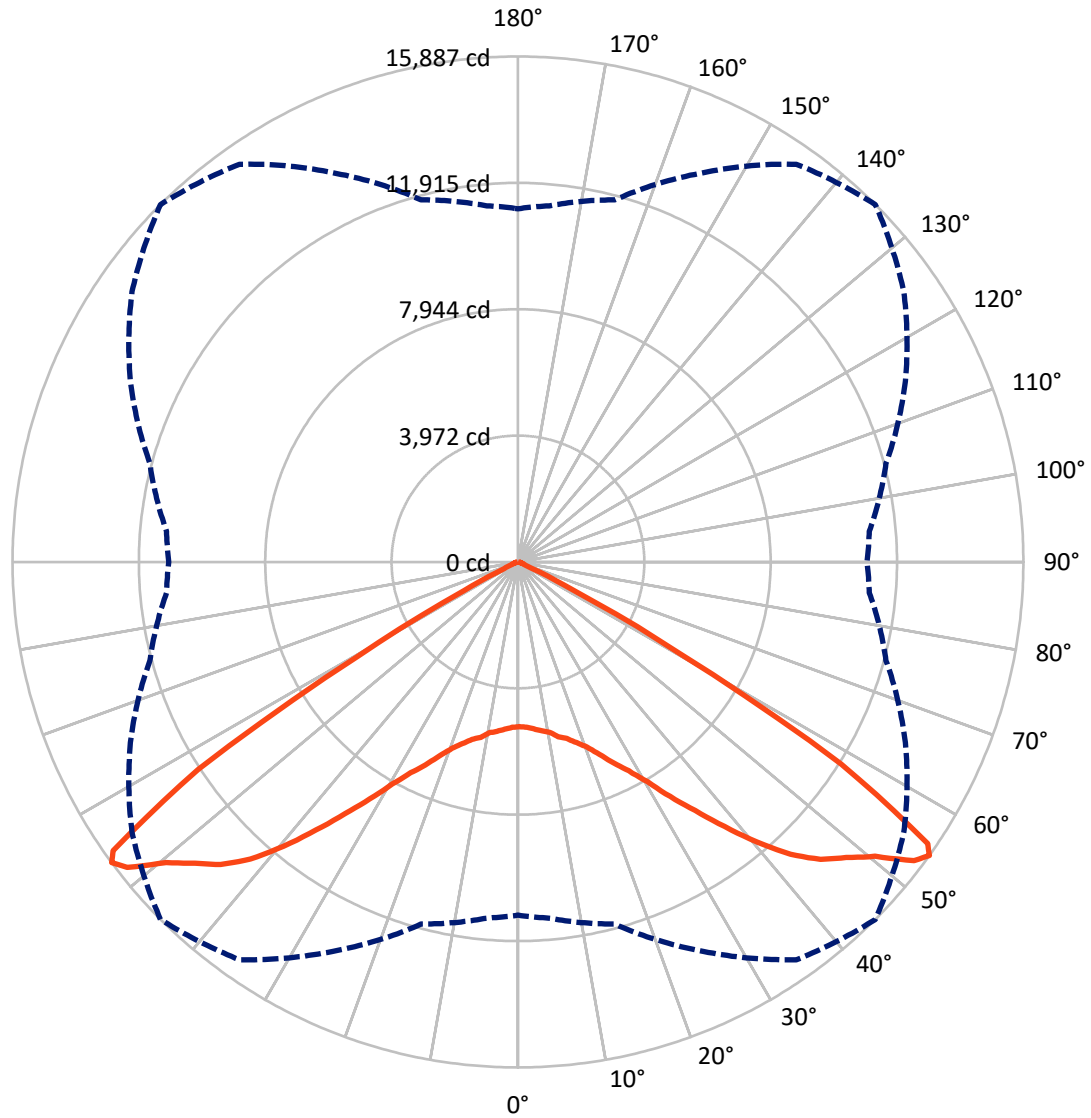
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15782.5	0.0	15782.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15782.5	0.0	15782.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	31565.0	0.0	31565.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	506.6	1.6
10°-20°	1640.5	5.2
20°-30°	3215.3	10.2
30°-40°	5781.7	18.3
40°-50°	9897.1	31.4
50°-60°	9576.4	30.3
60°-70°	819.8	2.6
70°-80°	97.2	0.3
80°-90°	30.5	0.1
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°	31565.0	100.0
0°-180°	31565.0	100.0

Coefficient of Utilization

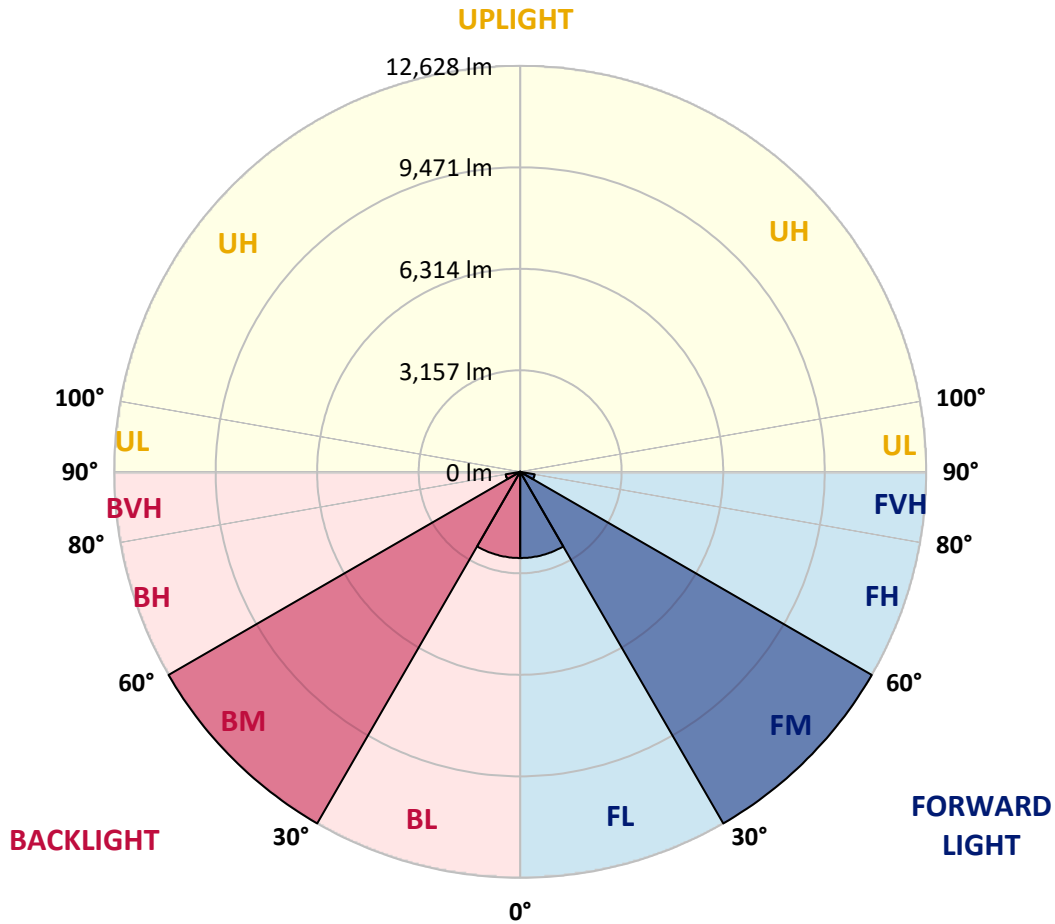


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2681.2	8.5			
FM (30°-60°)	12627.6	40.0			
FH (60°-80°)	458.5	1.5			G0/660
FVH (80°-90°)	15.2	0.0			G1/100
BL (0°-30°)	2681.2	8.5	B4/5000		
BM (30°-60°)	12627.6	40.0	B5		
BH (60°-80°)	458.5	1.5	B1/500		G0/660
BVH (80°-90°)	15.2	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5175.7	5175.7	5175.7	5175.7	5175.7	5175.7	5175.7	5175.7	5175.7	5175.7	5175.7
2.5°	5200.7	5230.7	5210.7	5225.7	5225.7	5200.7	5215.7	5155.7	5195.7	5165.7	5170.7
5°	5280.7	5275.7	5275.7	5280.7	5260.7	5270.7	5250.7	5230.7	5215.7	5195.7	5255.7
7.5°	5380.7	5380.7	5345.7	5355.7	5345.7	5360.7	5320.7	5280.7	5265.7	5250.7	5240.7
10°	5475.7	5465.7	5450.7	5495.7	5460.7	5440.7	5420.7	5395.7	5340.7	5320.7	5300.7
12.5°	5615.7	5610.7	5590.7	5635.7	5615.7	5635.7	5560.7	5495.7	5485.7	5420.7	5455.7
15°	5780.8	5825.8	5790.8	5790.8	5780.8	5755.8	5725.7	5695.7	5605.7	5580.7	5585.7
17.5°	5995.8	5980.8	5985.8	5985.8	6035.8	5970.8	5910.8	5835.8	5790.8	5775.8	5725.7
20°	6200.8	6220.8	6215.8	6250.8	6280.8	6210.8	6145.8	6135.8	6010.8	6030.8	5960.8
22.5°	6560.9	6545.9	6570.9	6595.9	6575.9	6565.9	6505.9	6430.8	6320.8	6270.8	6260.8
25°	6940.9	6915.9	6870.9	6930.9	6960.9	7005.9	6890.9	6850.9	6680.9	6605.9	6610.9
27.5°	7265.9	7301.0	7351.0	7376.0	7451.0	7436.0	7356.0	7225.9	7095.9	7010.9	6955.9
30°	7711.0	7731.0	7816.0	7851.0	7981.0	8016.0	7891.0	7741.0	7511.0	7401.0	7336.0
32.5°	8121.1	8261.1	8256.1	8431.1	8641.1	8786.1	8561.1	8331.1	8101.1	7971.0	7856.0
35°	8786.1	8761.1	8906.2	9091.2	9431.2	9596.3	9351.2	9086.2	8736.1	8526.1	8436.1
37.5°	9406.2	9416.2	9611.3	9906.3	10296.3	10551.4	10336.4	9901.3	9541.2	9271.2	9146.2
40°	10306.3	10326.3	10526.4	10861.4	11301.5	11576.5	11326.5	10886.4	10406.4	10196.3	10196.3
42.5°	11361.5	11446.5	11576.5	11866.6	12261.6	12566.6	12341.6	11996.6	11511.5	11241.5	11281.5
45°	12446.6	12486.6	12571.6	13001.7	13186.7	13336.7	13126.7	12966.7	12641.7	12311.6	12256.6
47.5°	13461.8	13476.8	13726.8	13861.8	14006.8	13881.8	14016.8	13806.8	13441.8	13121.7	13056.7
50°	13911.8	13886.8	14241.9	14651.9	14761.9	14541.9	14426.9	14286.9	13731.8	13346.7	13176.7
52.5°	12601.6	12746.7	13406.8	14546.9	15407.0	15592.0	14922.0	14276.9	13241.7	12491.6	12376.6
54°	11101.5	11236.5	11781.5	13471.8	15262.0	15887.1	14806.9	13436.8	11976.6	11086.4	10971.4
55°	9616.3	9466.2	10456.4	12181.6	14581.9	15627.0	14351.9	12351.6	10681.4	9866.3	9706.3
57.5°	5205.7	5230.7	6065.8	7696.0	10246.3	11981.6	10581.4	8356.1	6310.8	5395.7	5315.7
60°	1650.2	1690.2	2055.3	3110.4	4895.6	5845.8	5010.7	3355.4	2320.3	1860.2	1785.2
62.5°	515.1	535.1	585.1	870.1	1340.2	1915.3	1500.2	900.1	670.1	615.1	625.1
65°	315.0	315.0	320.0	340.0	400.1	465.1	450.1	395.1	380.0	370.0	365.0
67.5°	205.0	200.0	210.0	225.0	235.0	240.0	255.0	270.0	265.0	255.0	255.0
70°	125.0	120.0	130.0	150.0	155.0	165.0	180.0	200.0	195.0	185.0	190.0
72.5°	70.0	70.0	75.0	90.0	105.0	115.0	130.0	145.0	150.0	145.0	145.0
75°	25.0	30.0	40.0	55.0	65.0	80.0	95.0	110.0	125.0	115.0	110.0
77.5°	10.0	10.0	20.0	35.0	50.0	65.0	90.0	105.0	115.0	105.0	95.0
80°	5.0	5.0	15.0	30.0	45.0	60.0	75.0	90.0	95.0	85.0	75.0
82.5°	5.0	5.0	15.0	30.0	45.0	55.0	80.0	90.0	100.0	90.0	75.0
85°	0.0	5.0	15.0	30.0	40.0	45.0	45.0	30.0	25.0	15.0	15.0
87.5°	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)