

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: P529498

Luminaire Tested: **GALN-SA4C-830-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529498
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-830-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19906 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

Input Watts (W): 213
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



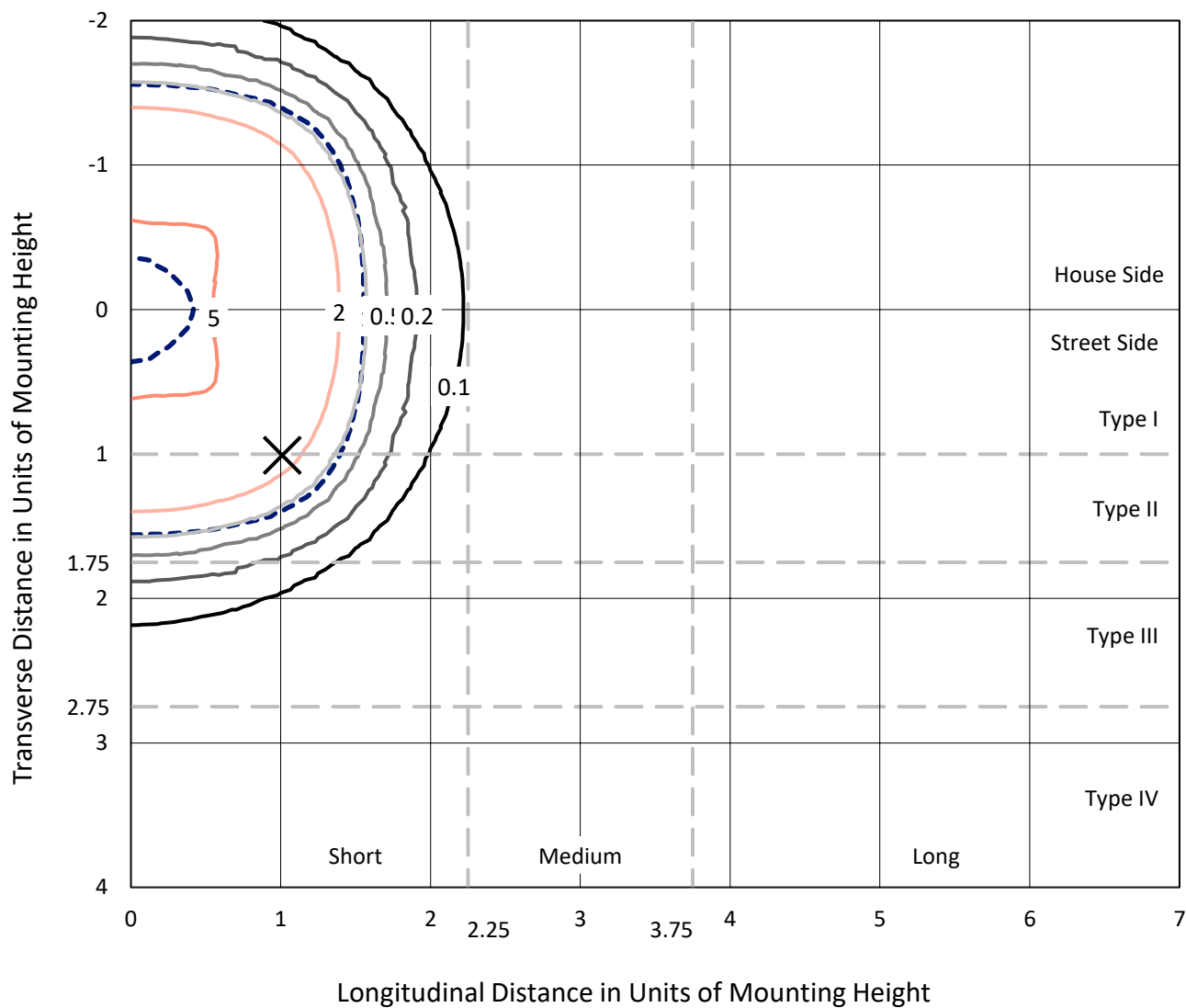
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

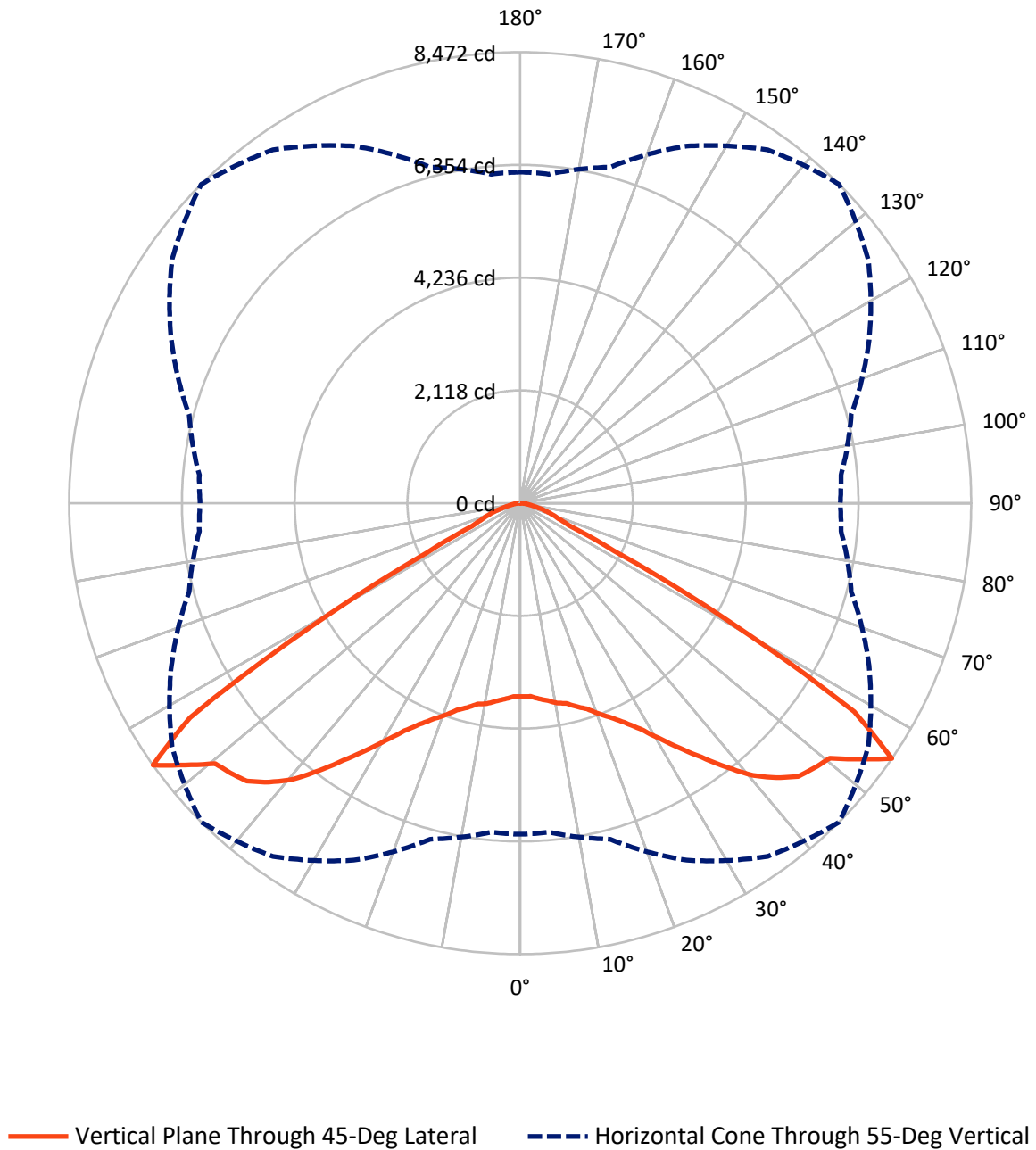
--- 1/2 Max cd



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



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9953.0	0.0	9953.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9953.0	0.0	9953.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	19906.0	0.0	19906.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	355.1	1.8
10°-20°	1125.0	5.7
20°-30°	2097.8	10.5
30°-40°	3512.4	17.6
40°-50°	5465.5	27.5
50°-60°	5674.9	28.5
60°-70°	1203.5	6.0
70°-80°	396.3	2.0
80°-90°	75.5	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°	19906.0	100.0
0°-180°	19906.0	100.0

Coefficient of Utilization



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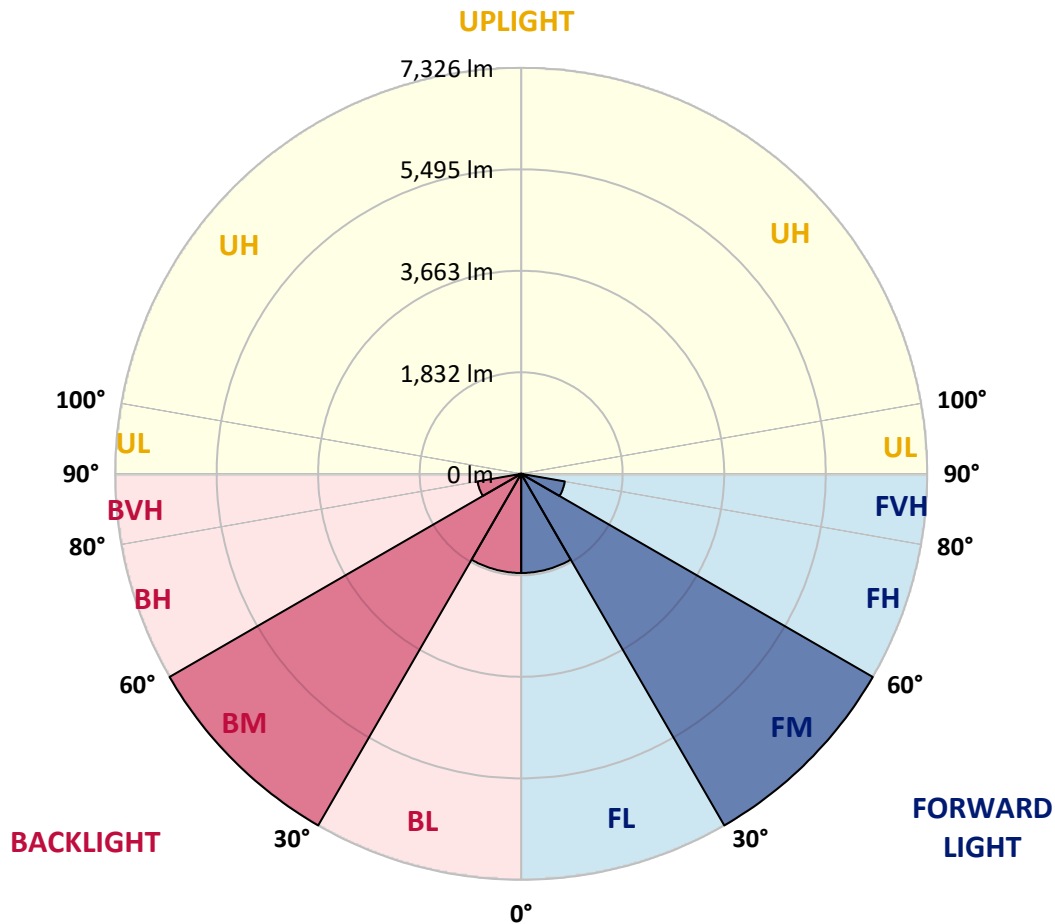
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1788.9	9.0			
FM	(30°-60°)	7326.4	36.8			
FH	(60°-80°)	799.9	4.0			G1/1800
FVH	(80°-90°)	37.7	0.2			G1/100
BL	(0°-30°)	1788.9	9.0	B3/2500		
BM	(30°-60°)	7326.4	36.8	B4/8500		
BH	(60°-80°)	799.9	4.0	B2/1000		G1/1800
BVH	(80°-90°)	37.7	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-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3634.5	3634.5	3634.5	3634.5	3634.5	3634.5	3634.5	3634.5	3634.5	3634.5	3634.5
2.5°	3677.8	3661.0	3632.1	3653.8	3670.6	3634.5	3649.0	3656.2	3651.4	3632.1	3639.3
5°	3730.8	3721.1	3697.1	3713.9	3692.3	3692.3	3677.8	3658.6	3687.5	3682.6	3694.7
7.5°	3730.8	3718.7	3766.8	3735.6	3745.2	3745.2	3721.1	3701.9	3716.3	3694.7	3682.6
10°	3805.3	3822.2	3800.5	3807.7	3802.9	3819.8	3783.7	3771.6	3759.6	3752.4	3738.0
12.5°	3894.3	3882.3	3889.5	3884.7	3901.5	3858.2	3836.6	3810.1	3831.8	3800.5	3822.2
15°	3966.5	3959.3	3966.5	3985.7	3968.9	3966.5	3928.0	3901.5	3867.9	3875.1	3841.4
17.5°	4065.1	4057.9	4060.3	4077.1	4074.7	4062.7	4033.8	3983.3	3971.3	3952.0	3930.4
20°	4211.8	4199.8	4195.0	4202.2	4214.2	4223.9	4166.1	4146.9	4106.0	4074.7	4038.6
22.5°	4336.9	4332.1	4351.3	4320.1	4346.5	4375.4	4320.1	4310.5	4209.4	4192.6	4154.1
25°	4510.1	4502.9	4490.9	4536.6	4567.8	4565.4	4512.5	4459.6	4382.6	4363.4	4363.4
27.5°	4692.9	4652.0	4714.6	4726.6	4781.9	4798.7	4753.0	4676.1	4603.9	4563.0	4572.6
30°	4921.4	4882.9	4897.4	4984.0	5056.1	5118.7	5003.2	4890.2	4789.1	4717.0	4704.9
32.5°	5149.9	5111.4	5154.7	5238.9	5383.3	5477.1	5364.0	5166.8	5048.9	4943.1	4964.7
35°	5335.1	5364.0	5433.8	5561.3	5710.4	5861.9	5681.5	5530.0	5361.6	5243.7	5260.6
37.5°	5633.4	5722.4	5777.7	5924.5	6136.1	6292.5	6104.9	5907.6	5727.2	5573.3	5520.4
40°	6023.1	6083.2	6145.8	6318.9	6569.1	6725.5	6547.5	6290.1	6112.1	5953.3	5946.1
42.5°	6451.2	6509.0	6573.9	6785.6	6934.7	7052.6	6889.0	6751.9	6554.7	6429.6	6422.4
45°	6949.2	6908.3	6980.4	7119.9	7245.0	7322.0	7216.2	7148.8	7006.9	6891.4	6879.4
47.5°	7281.1	7245.0	7374.9	7500.0	7519.2	7435.0	7456.7	7519.2	7370.1	7180.1	7240.2
50°	7473.5	7473.5	7560.1	7675.6	7639.5	7531.3	7702.0	7706.9	7557.7	7389.3	7389.3
52.5°	7139.2	7213.8	7459.1	7836.7	7957.0	7988.3	7949.8	7786.2	7396.6	7052.6	7035.8
55°	6220.3	6203.5	6535.4	7401.4	8101.3	8471.8	7981.1	7228.2	6436.8	6049.5	6011.1
57.5°	4045.9	4065.1	4560.6	5443.4	6706.2	7396.6	6569.1	5510.7	4560.6	4026.6	4077.1
60°	1820.9	1885.8	2186.5	2845.6	3930.4	4493.3	3940.0	2989.9	2294.7	1991.7	2018.1
62.5°	1046.3	1058.4	1070.4	1270.0	1674.1	1979.6	1739.1	1342.2	1183.5	1130.5	1130.5
65°	882.8	875.6	878.0	894.8	938.1	1000.6	974.2	938.1	942.9	938.1	930.9
67.5°	750.5	760.1	752.9	764.9	767.3	776.9	793.8	808.2	810.6	815.4	810.6
70°	615.8	618.2	623.0	632.6	635.0	642.2	666.3	678.3	685.5	685.5	695.2
72.5°	471.5	469.1	473.9	483.5	495.5	497.9	519.6	536.4	546.0	534.0	536.4
75°	310.3	312.7	319.9	327.1	344.0	360.8	368.0	384.9	387.3	392.1	380.1
77.5°	185.2	190.0	197.2	211.7	226.1	240.5	257.4	269.4	274.2	269.4	255.0
80°	120.3	120.3	129.9	141.9	158.8	170.8	180.4	190.0	197.2	190.0	185.2
82.5°	74.6	74.6	86.6	101.0	113.1	120.3	134.7	146.7	153.9	149.1	141.9
85°	38.5	40.9	50.5	62.5	72.2	77.0	74.6	67.4	60.1	57.7	52.9
87.5°	12.0	12.0	14.4	14.4	12.0	12.0	14.4	12.0	14.4	14.4	14.4
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)