

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: P646882

Luminaire Tested: **GALN-SA4C-835-U-RW-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P646882
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-8)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-835-U-RW-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19080.9 lumens
Efficiency: N/A
Efficacy: 89.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

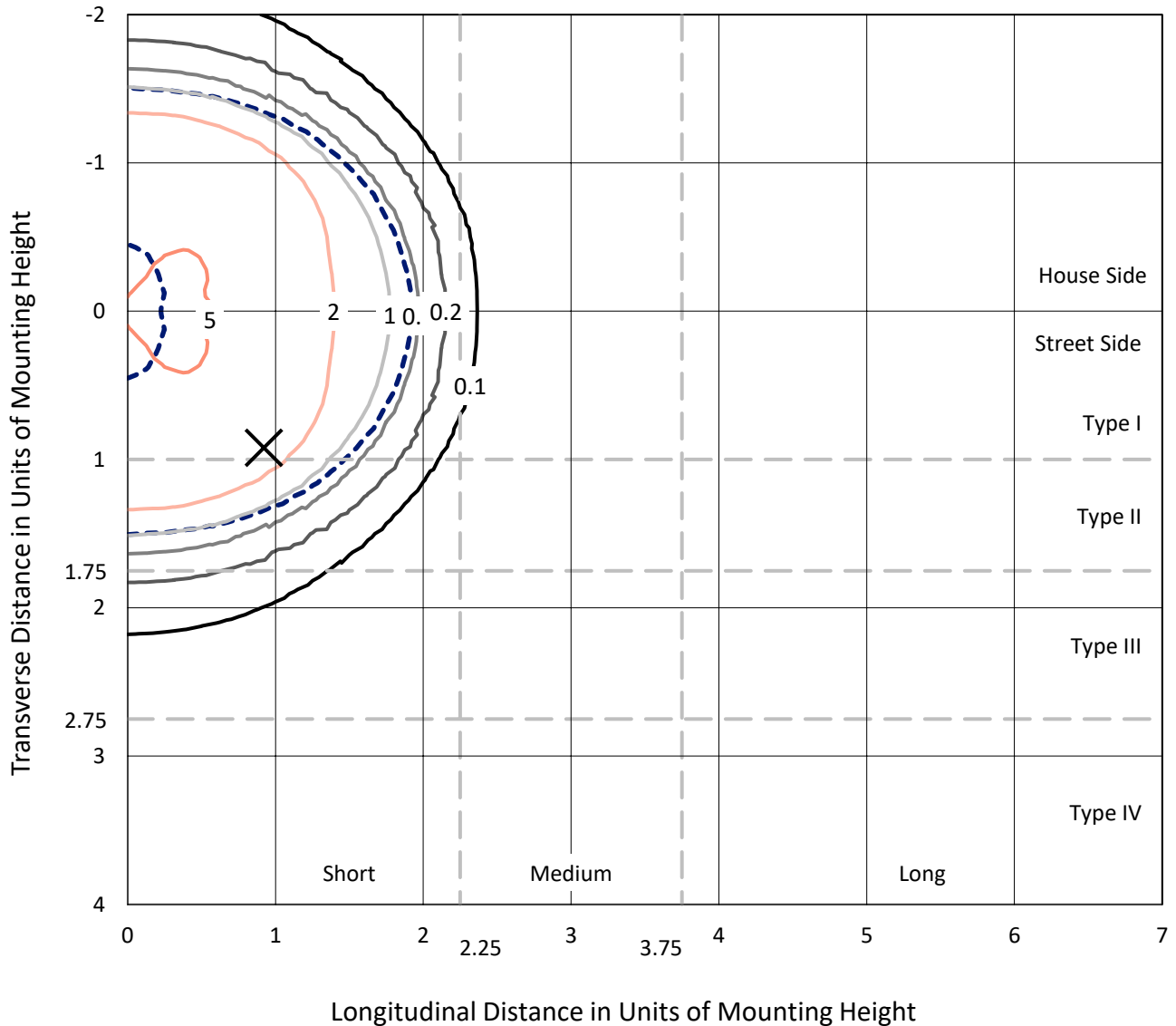
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

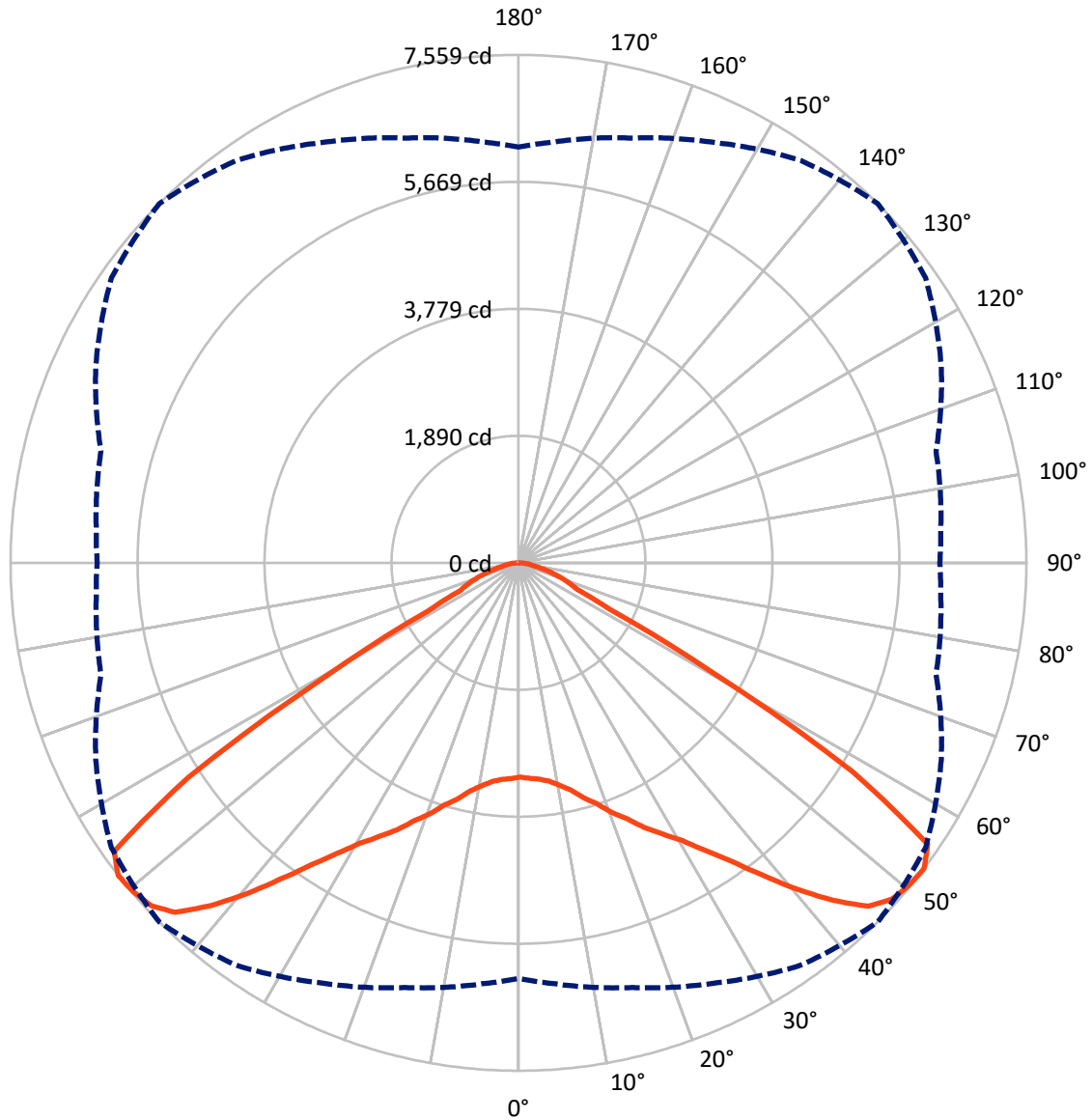
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9540.5	0.0	9540.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9540.5	0.0	9540.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	19080.9	0.0	19080.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.4	1.6
10°-20°	1029.7	5.4
20°-30°	1960.4	10.3
30°-40°	3366.2	17.6
40°-50°	5174.0	27.1
50°-60°	5254.1	27.5
60°-70°	1464.2	7.7
70°-80°	431.9	2.3
80°-90°	87.0	0.5
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°	19080.9	100.0
0°-180°	19080.9	100.0

Coefficient of Utilization



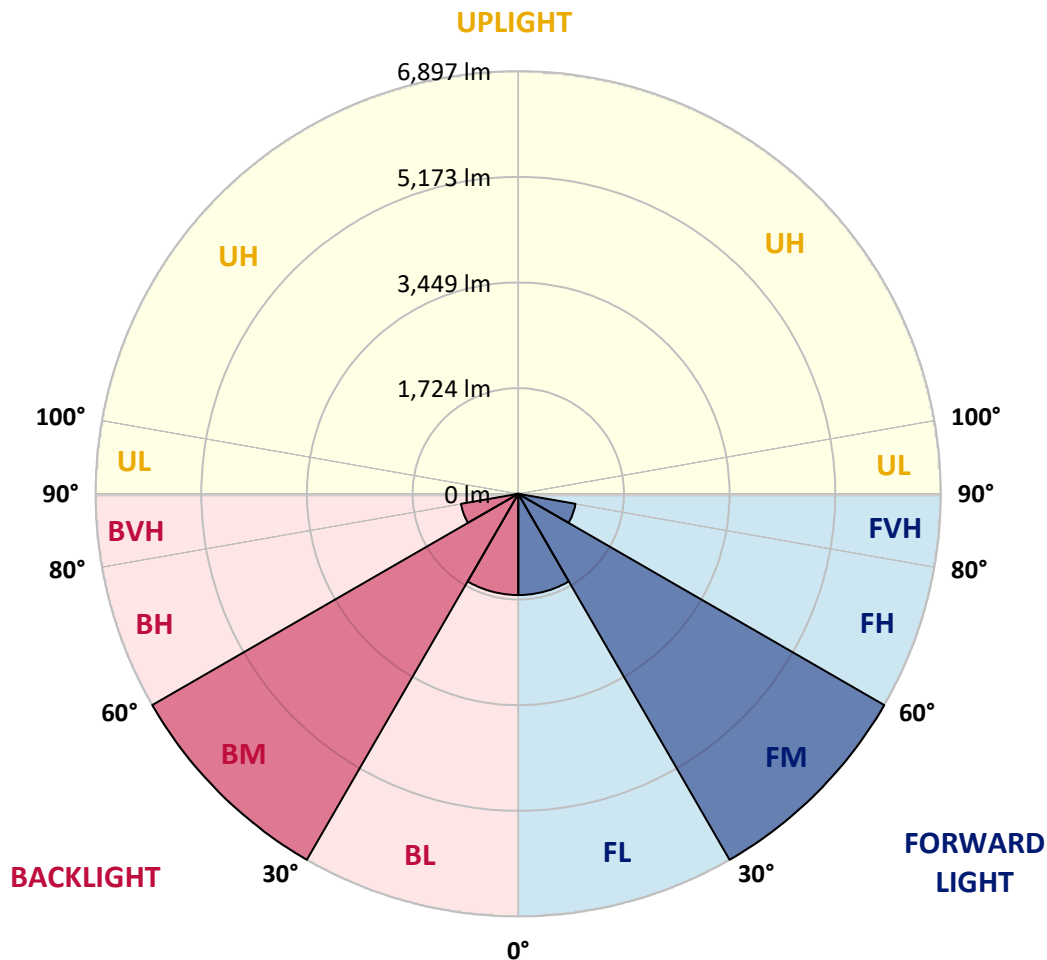
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1651.8	8.7			
FM (30°-60°)	6897.1	36.1			
FH (60°-80°)	948.1	5.0			G1/1800
FVH (80°-90°)	43.5	0.2			G1/100
BL (0°-30°)	1651.8	8.7	B3/2500		
BM (30°-60°)	6897.1	36.1	B4/8500		
BH (60°-80°)	948.1	5.0	B2/1000		G1/1800
BVH (80°-90°)	43.5	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-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3189.6	3189.6	3189.6	3189.6	3189.6	3189.6	3189.6	3189.6	3189.6	3189.6	3189.6
2.5°	3196.8	3163.6	3175.5	3182.5	3213.3	3210.9	3203.8	3213.3	3222.7	3225.2	3220.4
5°	3194.3	3170.7	3180.2	3187.3	3218.1	3234.7	3229.9	3270.1	3298.5	3291.4	3327.0
7.5°	3175.5	3189.6	3177.8	3213.3	3239.3	3279.6	3322.3	3360.1	3395.6	3435.9	3443.0
10°	3218.1	3218.1	3239.3	3267.8	3336.4	3367.2	3428.8	3483.3	3551.9	3599.3	3580.3
12.5°	3263.0	3270.1	3270.1	3343.6	3400.4	3469.1	3525.8	3599.3	3696.4	3753.2	3781.6
15°	3308.0	3312.8	3336.4	3435.9	3521.2	3630.1	3682.1	3748.5	3803.0	3909.5	3911.9
17.5°	3348.3	3374.3	3445.4	3556.7	3663.2	3767.4	3850.3	3919.0	3966.3	4009.0	3999.5
20°	3499.9	3518.8	3592.2	3703.5	3862.1	3963.9	3992.4	4004.2	4035.0	4120.2	4094.2
22.5°	3646.7	3653.7	3722.4	3892.9	4004.2	4139.2	4169.9	4162.8	4174.7	4196.0	4233.9
25°	3798.2	3810.0	3904.7	4049.2	4205.5	4366.5	4392.6	4338.1	4321.5	4345.2	4347.5
27.5°	3992.4	3994.7	4115.5	4241.0	4418.6	4570.1	4610.4	4567.8	4489.6	4508.6	4539.4
30°	4238.6	4222.1	4342.8	4522.8	4709.8	4795.1	4863.8	4842.5	4757.2	4740.7	4714.6
32.5°	4522.8	4527.5	4636.5	4833.0	4956.2	5098.2	5171.6	5136.1	5081.6	5053.2	5069.8
35°	4923.0	4944.3	5017.7	5181.1	5380.0	5451.0	5567.1	5491.3	5349.2	5384.7	5415.5
37.5°	5252.1	5313.7	5451.0	5645.2	5763.6	5893.8	5936.5	5834.6	5730.5	5687.8	5789.7
40°	5756.5	5737.5	5889.1	6083.3	6258.5	6388.7	6334.2	6232.4	5974.4	5976.7	6005.1
42.5°	6189.8	6199.3	6315.3	6547.4	6786.6	6867.1	6694.2	6445.6	6159.0	6128.2	6189.8
45°	6554.5	6592.4	6658.7	6968.9	7203.3	7290.9	6971.2	6677.6	6294.0	6166.1	6268.0
47.5°	6684.7	6746.3	6890.7	7174.9	7406.9	7478.0	7222.2	6800.7	6419.5	6211.1	6265.6
50°	6703.7	6682.4	6919.1	7179.6	7383.3	7537.2	7312.2	6890.7	6388.7	6279.8	6263.2
52.5°	6185.1	6289.3	6542.7	6900.2	7312.2	7558.5	7392.8	6940.4	6431.3	6308.2	6268.0
55°	5005.9	4882.7	5344.4	5945.9	6703.7	7388.0	7364.3	6966.5	6457.4	6355.6	6301.1
57.5°	2794.2	2829.7	3090.2	3743.8	4721.7	5858.3	6547.4	6691.8	6445.6	6386.4	6414.8
60°	1292.9	1304.7	1416.1	1721.5	2327.7	3322.3	4229.1	5150.3	5574.2	5659.4	5659.4
62.5°	963.8	959.0	987.4	1041.9	1169.8	1527.3	2038.8	2770.5	3353.0	3760.3	3866.8
65°	871.4	869.1	883.2	902.2	911.6	961.4	1075.1	1300.0	1489.4	1598.3	1579.4
67.5°	762.5	760.1	764.8	776.7	793.3	819.3	847.8	895.0	961.4	956.7	944.8
70°	615.7	615.7	622.8	632.3	651.2	682.0	715.1	748.2	805.1	816.9	814.6
72.5°	454.6	447.6	461.7	480.7	499.6	537.5	573.1	603.8	644.1	655.9	651.2
75°	288.9	293.6	303.1	324.4	357.6	383.6	421.5	447.6	473.6	483.0	485.5
77.5°	161.0	165.8	182.4	208.4	241.6	270.0	303.1	324.4	341.0	343.3	345.7
80°	97.1	99.4	116.0	139.7	168.1	198.9	225.0	246.3	260.5	253.4	251.0
82.5°	59.2	61.5	75.8	97.1	120.7	144.5	172.9	191.8	206.0	196.5	187.1
85°	30.8	33.1	45.0	59.2	78.1	90.0	90.0	80.5	78.1	73.4	71.0
87.5°	9.5	9.5	11.8	14.2	11.8	14.2	16.6	18.9	18.9	21.3	18.9
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)