

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: P454429

Luminaire Tested: **GALN-SA5C-740-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454429
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5C-740-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36325 lumens
Efficiency: N/A
Efficacy: 135.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

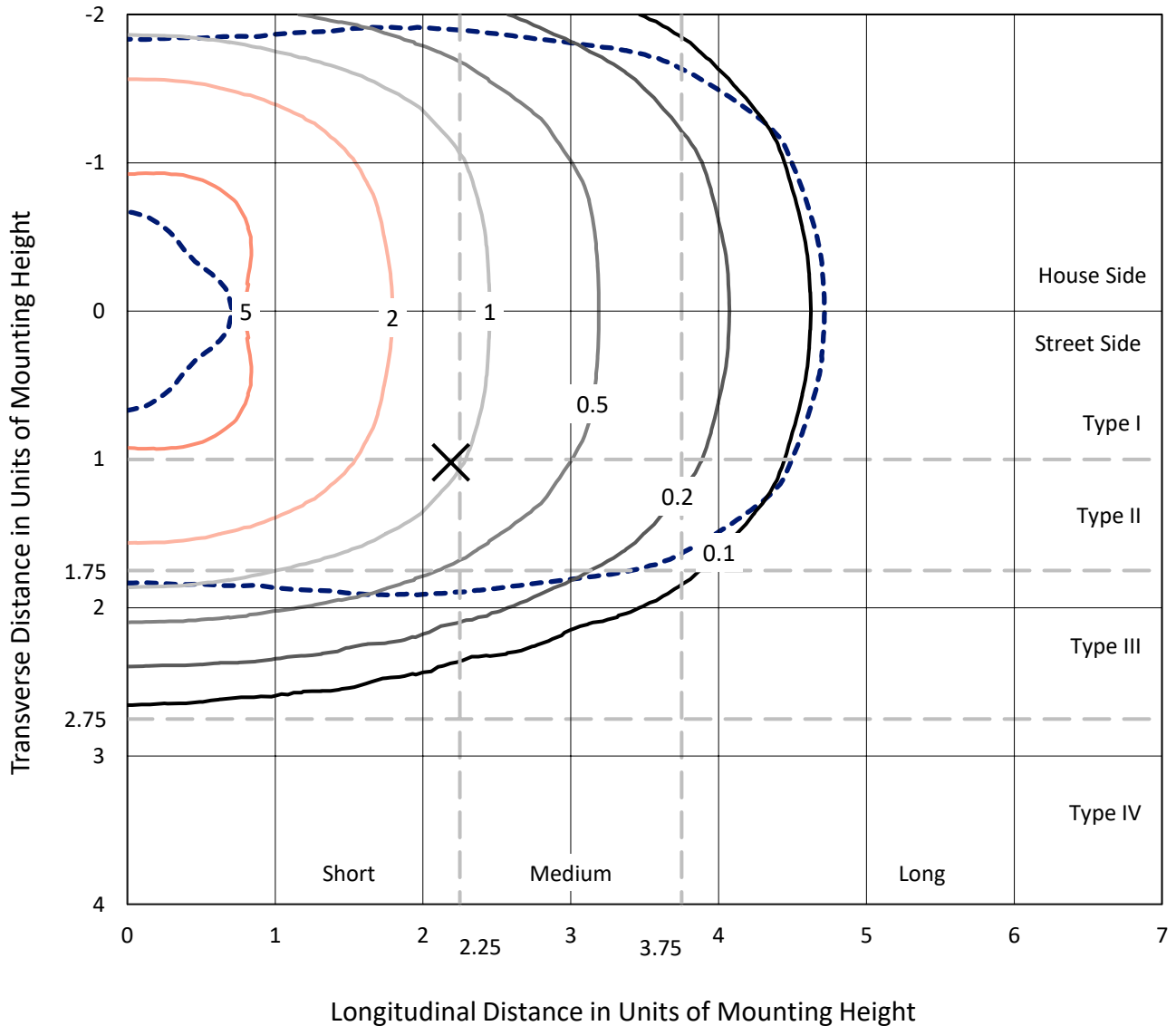
Input Watts (W): 269
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

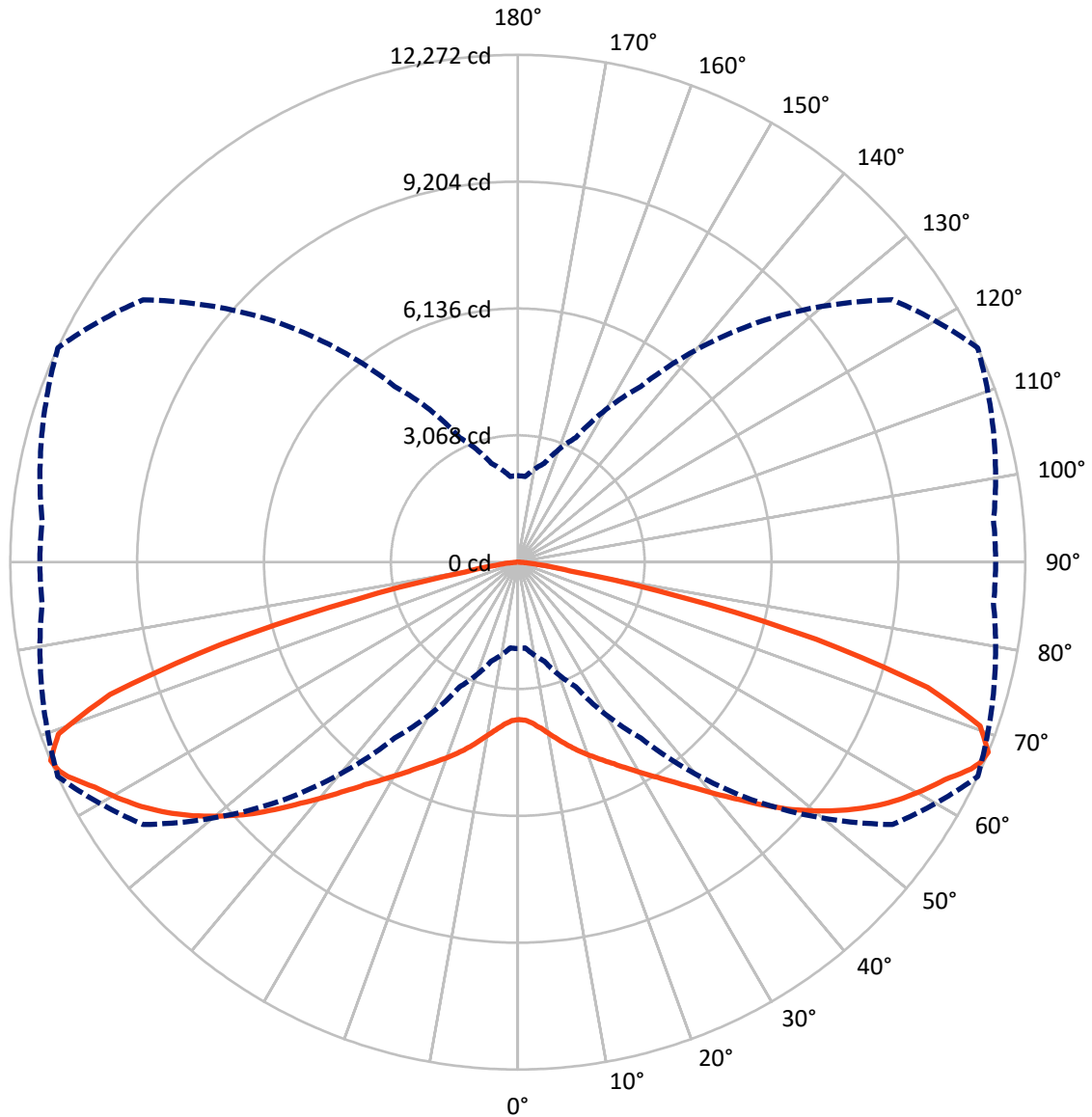
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18162.5	0.0	18162.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18162.5	0.0	18162.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	36325.0	0.0	36325.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	375.3	1.0
10°-20°	1255.9	3.5
20°-30°	2456.7	6.8
30°-40°	4178.5	11.5
40°-50°	6613.3	18.2
50°-60°	8769.1	24.1
60°-70°	8271.9	22.8
70°-80°	4089.2	11.3
80°-90°	315.2	0.9
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°	36325.0	100.0
0°-180°	36325.0	100.0



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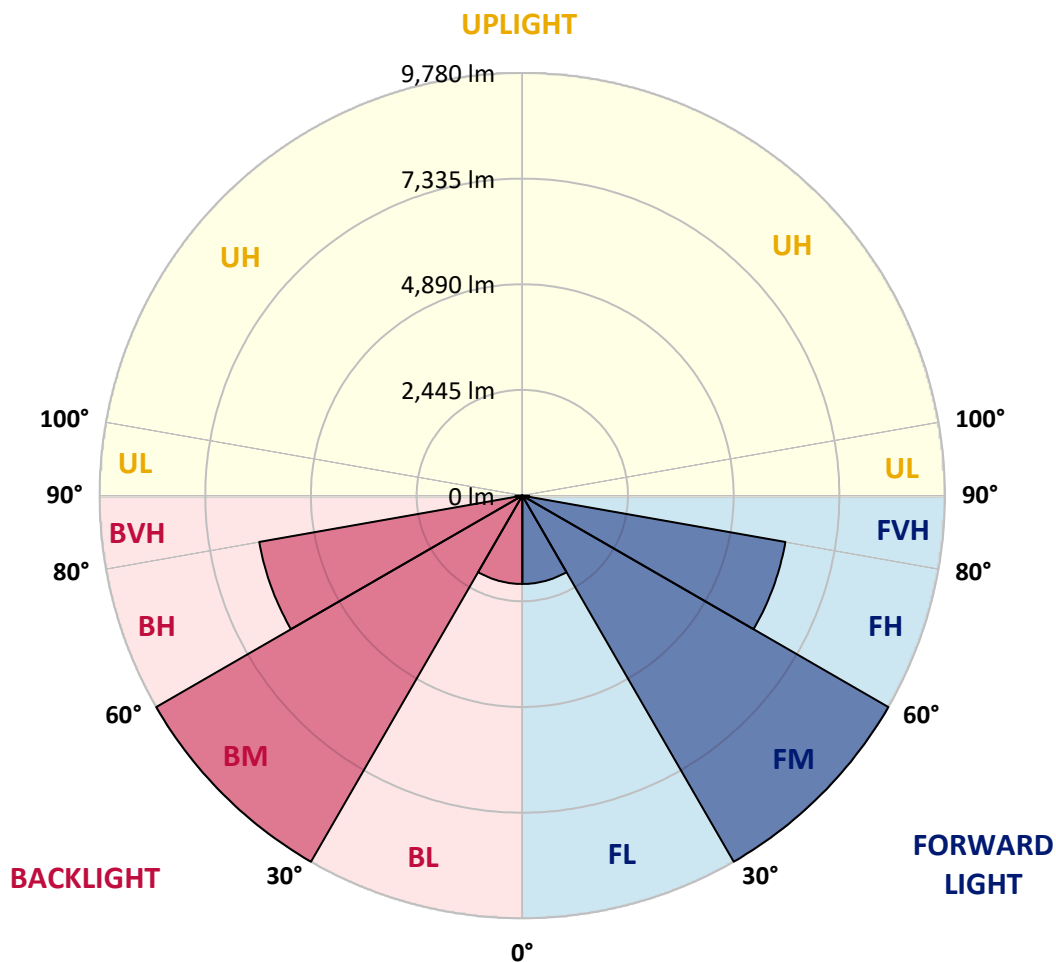
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2043.9	5.6			
FM	(30°-60°)	9780.4	26.9			
FH	(60°-80°)	6180.6	17.0			G3/7500
FVH	(80°-90°)	157.6	0.4			G2/225
BL	(0°-30°)	2043.9	5.6	B3/2500		
BM	(30°-60°)	9780.4	26.9	B5		
BH	(60°-80°)	6180.6	17.0	B5		G5
BVH	(80°-90°)	157.6	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3804.7	3804.7	3804.7	3804.7	3804.7	3804.7	3804.7	3804.7	3804.7	3804.7	3804.7
2.5°	3785.3	3789.2	3793.0	3798.9	3806.7	3818.3	3826.1	3832.0	3847.5	3849.5	3847.5
5°	3771.6	3775.5	3785.3	3802.8	3828.1	3863.1	3890.4	3923.4	3948.7	3966.3	3962.4
7.5°	3769.7	3777.5	3793.0	3830.0	3878.7	3939.0	4001.3	4057.7	4106.4	4145.3	4139.5
10°	3800.8	3810.6	3835.9	3890.4	3966.3	4053.8	4141.4	4225.1	4295.2	4345.8	4363.3
12.5°	3853.4	3861.2	3907.9	3989.6	4098.6	4207.6	4306.8	4410.0	4507.3	4592.9	4592.9
15°	3944.8	3958.5	4016.9	4135.6	4269.9	4396.4	4497.6	4606.5	4711.6	4808.9	4838.1
17.5°	4071.3	4090.8	4178.4	4330.2	4501.4	4618.2	4713.6	4803.1	4894.6	4988.0	5001.6
20°	4244.6	4264.0	4380.8	4563.7	4766.1	4906.2	4970.5	4991.9	5036.6	5126.2	5137.8
22.5°	4480.0	4499.5	4629.9	4836.2	5061.9	5213.7	5241.0	5190.4	5178.7	5248.8	5256.6
25°	4746.7	4764.2	4914.0	5135.9	5369.4	5534.9	5527.1	5402.5	5332.5	5375.3	5386.9
27.5°	5046.4	5071.7	5223.5	5453.1	5706.1	5852.1	5828.7	5647.7	5497.9	5490.1	5494.0
30°	5429.8	5457.0	5601.0	5820.9	6070.0	6204.3	6155.7	5912.4	5680.8	5603.0	5603.0
32.5°	5834.6	5902.7	6048.6	6278.3	6472.9	6570.2	6496.2	6204.3	5896.8	5787.9	5782.0
35°	6362.0	6398.9	6543.0	6766.8	6912.7	6988.6	6846.6	6533.2	6179.0	6050.6	6033.1
37.5°	6877.7	6908.8	7076.2	7290.3	7467.4	7463.5	7270.8	6924.4	6529.3	6385.3	6373.6
40°	7405.1	7438.2	7628.9	7825.5	8002.6	7987.0	7753.5	7366.2	6945.8	6784.3	6815.4
42.5°	7862.4	7899.4	8115.4	8395.7	8555.3	8551.4	8280.9	7844.9	7407.0	7263.0	7290.3
45°	8278.9	8312.0	8563.1	8884.2	9117.7	9146.9	8851.1	8389.9	7940.3	7755.4	7763.2
47.5°	8572.8	8635.1	8897.8	9265.6	9582.8	9686.0	9396.0	8944.5	8426.8	8234.2	8245.8
50°	8796.6	8835.5	9121.6	9540.0	9940.9	10155.0	9921.5	9458.3	8913.4	8709.0	8736.3
52.5°	8823.8	8870.6	9181.9	9664.6	10178.4	10503.4	10388.5	9960.4	9409.6	9199.5	9257.8
55°	8602.0	8629.2	9000.9	9586.7	10271.8	10762.2	10791.4	10427.5	9882.5	9723.0	9761.9
57.5°	7969.5	8039.5	8510.5	9222.8	10143.3	10900.4	11093.1	10851.7	10361.3	10203.7	10265.9
60°	6932.2	7002.2	7475.2	8378.2	9658.7	10836.2	11342.2	11227.3	10795.3	10668.8	10701.9
62.5°	5431.7	5425.9	6011.7	7119.0	8695.4	10520.9	11527.0	11589.3	11223.4	11063.9	11114.5
65°	3520.6	3538.1	4104.4	5297.4	7241.6	9719.1	11567.9	12050.6	11643.8	11402.5	11439.5
66°	2831.6	2884.2	3364.9	4464.5	6500.1	9193.6	11445.3	12186.8	11772.3	11480.3	11497.9
67.5°	2090.2	2080.4	2475.5	3324.0	5190.4	8195.2	11061.9	12272.4	11918.2	11550.4	11558.2
70°	1193.0	1191.0	1331.2	1825.5	3051.6	5770.3	9324.0	11861.8	12214.0	11803.4	11782.0
72.5°	871.9	866.0	885.5	1008.1	1488.8	2913.4	6432.0	10367.1	12062.2	11762.5	11702.2
75°	731.8	727.9	724.0	739.5	834.9	1319.5	3413.5	7457.6	10466.4	11040.5	10978.2
77.5°	597.5	597.5	599.4	595.5	599.4	694.8	1414.9	3997.4	6373.6	7115.1	7288.3
80°	467.1	465.1	498.2	484.6	453.5	445.7	626.7	1286.4	2115.5	2103.8	1736.0
82.5°	344.5	321.1	379.5	369.8	334.7	284.1	365.9	548.8	706.5	459.3	340.6
85°	218.0	216.0	268.6	245.2	204.3	134.3	175.2	235.5	291.9	177.1	144.0
87.5°	38.9	37.0	85.6	62.3	62.3	38.9	48.7	64.2	95.4	66.2	48.7
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)