

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: P452584

Luminaire Tested: **GALN-SA3C-740-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452584
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3C-740-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20950 lumens
Efficiency: N/A
Efficacy: 130.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

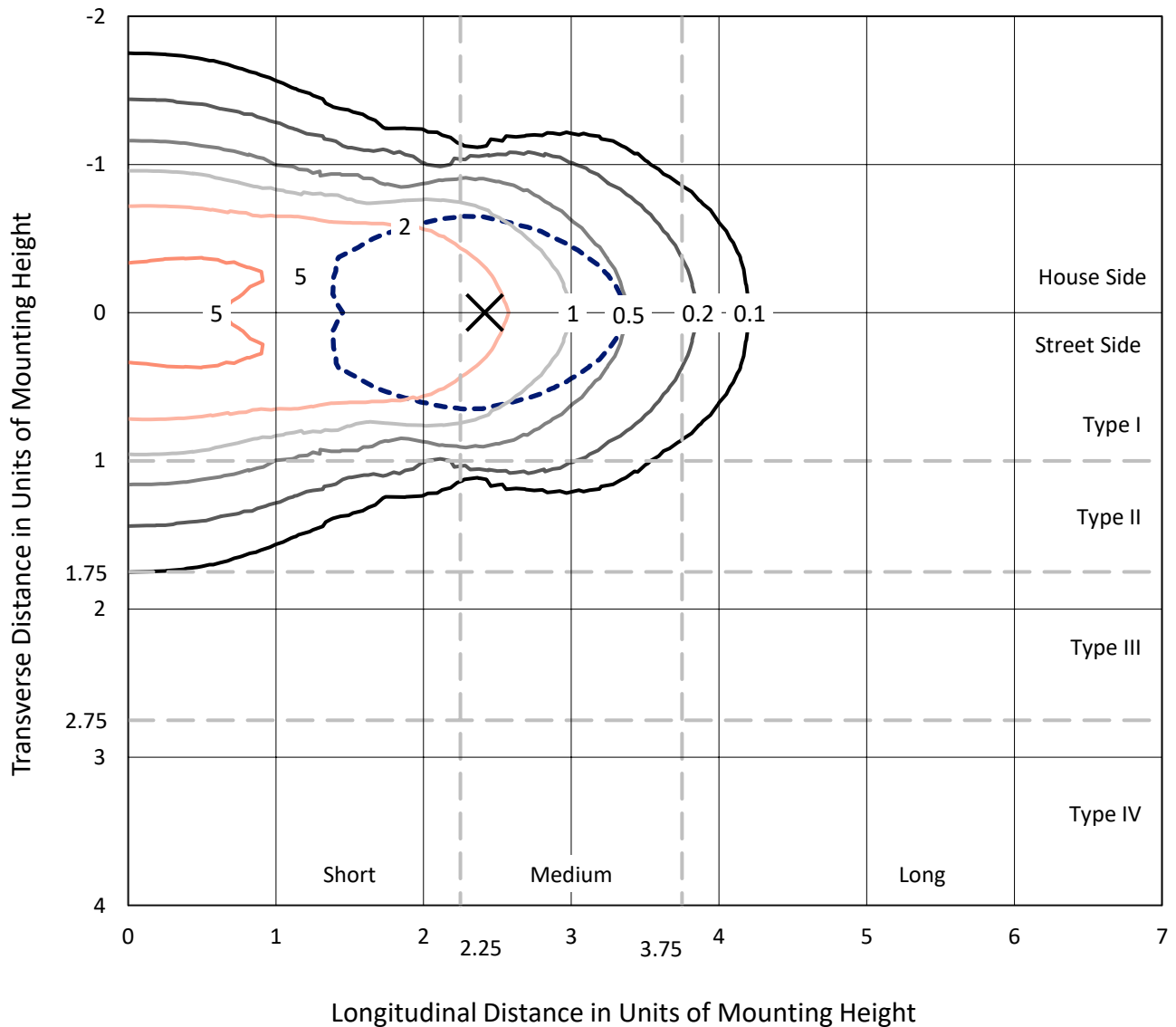
Input Watts (W): 160
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

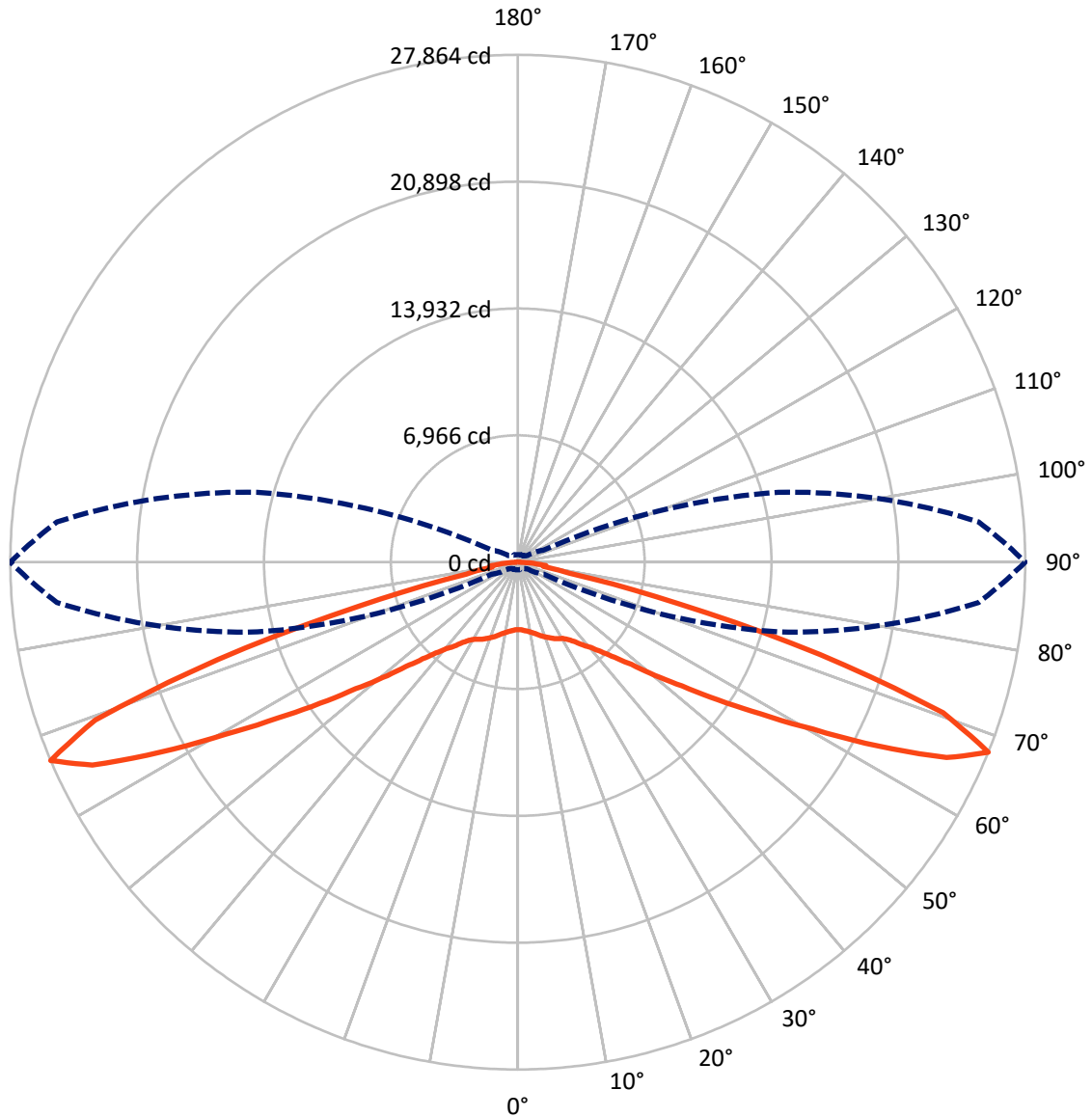
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10475.0	0.0	10475.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10475.0	0.0	10475.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	20950.0	0.0	20950.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	369.8	1.8
10°-20°	1183.1	5.6
20°-30°	1980.1	9.5
30°-40°	2682.6	12.8
40°-50°	3397.9	16.2
50°-60°	4244.8	20.3
60°-70°	4989.6	23.8
70°-80°	1908.8	9.1
80°-90°	193.4	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°	20950.0	100.0
0°-180°	20950.0	100.0

Coefficient of Utilization



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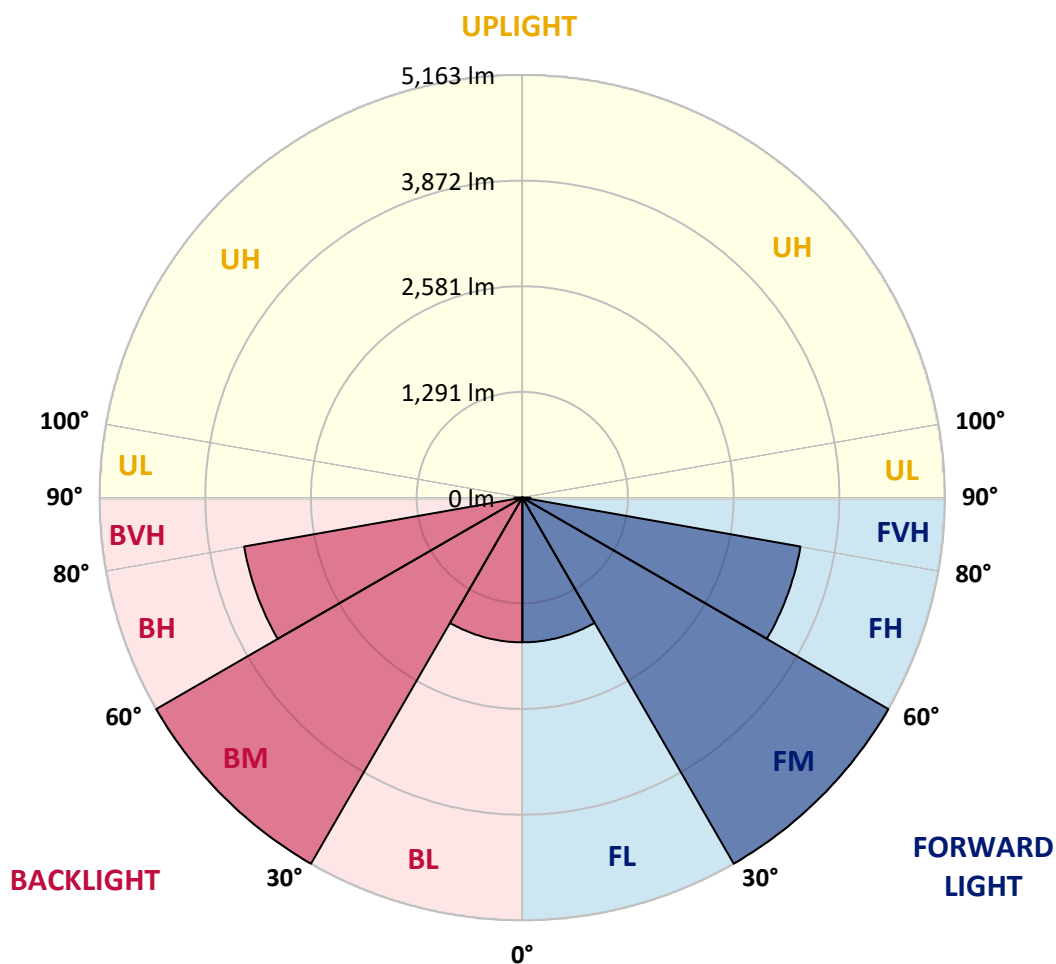
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1766.5	8.4			
FM (30°-60°)	5162.7	24.6			
FH (60°-80°)	3449.2	16.5			G2/5000
FVH (80°-90°)	96.7	0.5			G1/100
BL (0°-30°)	1766.5	8.4	B3/2500		
BM (30°-60°)	5162.7	24.6	B4/8500		
BH (60°-80°)	3449.2	16.5	B4/5000		G4/5000
BVH (80°-90°)	96.7	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3708.8	3708.8	3708.8	3708.8	3708.8	3708.8	3708.8	3708.8	3708.8	3708.8	3708.8
2.5°	3756.4	3754.0	3755.2	3754.0	3757.5	3755.2	3741.3	3729.7	3720.4	3721.6	3718.1
5°	3836.4	3837.6	3838.7	3832.9	3841.1	3836.4	3814.4	3795.8	3777.2	3770.3	3768.0
7.5°	3902.5	3908.3	3911.8	3917.6	3931.5	3931.5	3919.9	3893.3	3852.7	3829.5	3828.3
10°	3968.7	3973.3	3983.7	4002.3	4025.5	4047.5	4042.9	4006.9	3954.7	3915.3	3906.0
12.5°	3991.9	3997.7	4032.5	4085.8	4138.0	4181.0	4181.0	4152.0	4084.7	4024.3	4006.9
15°	3910.7	3921.1	3983.7	4097.4	4234.3	4328.3	4349.2	4308.6	4236.6	4143.8	4123.0
17.5°	3749.4	3774.9	3866.6	4034.8	4262.2	4457.1	4517.4	4497.7	4404.9	4286.5	4262.2
20°	3576.6	3604.4	3701.8	3924.6	4239.0	4532.5	4707.6	4712.3	4597.4	4425.7	4389.8
22.5°	3386.3	3407.2	3532.5	3793.5	4169.4	4549.9	4871.2	4951.3	4795.8	4564.9	4513.9
25°	3172.8	3196.0	3327.1	3609.0	4038.3	4530.1	5020.9	5197.2	5003.5	4713.4	4648.5
27.5°	2968.7	2977.9	3118.3	3404.9	3865.4	4479.1	5131.1	5423.4	5233.2	4836.4	4754.0
30°	2772.6	2794.7	2918.8	3201.8	3667.0	4379.3	5226.2	5681.0	5480.3	4965.2	4859.6
32.5°	2565.0	2591.6	2726.2	3012.7	3468.7	4229.7	5284.2	5962.9	5824.8	5174.0	5061.5
35°	2365.4	2382.8	2518.6	2797.0	3274.9	4055.7	5294.6	6280.7	6269.1	5490.7	5341.0
37.5°	2161.2	2186.8	2323.7	2590.5	3069.6	3871.2	5242.4	6618.3	6805.1	5930.4	5769.1
40°	1965.2	1987.2	2121.8	2390.9	2836.4	3646.2	5118.3	6926.9	7430.4	6382.8	6154.3
42.5°	1751.7	1757.5	1904.9	2178.6	2607.9	3385.1	4939.7	7201.8	8127.6	6989.5	6705.3
45°	1509.3	1524.4	1661.2	1930.4	2345.7	3092.8	4697.2	7429.2	9011.6	7830.6	7443.1
47.5°	1266.8	1279.6	1404.9	1670.5	2059.2	2757.5	4323.6	7628.7	9918.8	8899.0	8390.9
50°	1030.2	1037.1	1139.2	1374.7	1736.7	2404.9	3860.8	7692.5	10944.3	10411.8	9763.3
52.5°	814.4	824.8	902.5	1087.0	1392.1	1988.4	3360.8	7534.8	12141.5	12205.3	11291.1
55°	660.1	663.6	721.6	857.3	1088.2	1552.2	2757.5	7095.1	13429.2	14503.4	13337.5
57.5°	568.4	570.8	603.2	678.7	837.6	1170.5	2139.2	6263.3	14585.8	17196.0	15697.2
60°	516.2	517.4	536.0	580.0	663.6	897.9	1532.5	5089.3	15727.3	20192.5	18629.9
62.5°	483.8	483.8	496.5	520.9	561.5	689.1	1110.2	3671.7	16509.2	23233.1	22244.7
65°	452.4	452.4	461.7	479.1	501.2	563.8	820.2	2394.4	16489.5	25447.7	25880.4
67.5°	416.5	416.5	423.4	440.8	453.6	484.9	633.4	1568.4	14812.0	25399.0	27864.2
70°	373.5	373.5	382.8	397.9	408.4	428.1	500.0	1073.1	10881.6	21686.7	24780.6
72.5°	330.6	331.8	337.6	352.7	360.8	372.4	415.3	751.7	6675.1	14766.8	17327.1
75°	283.1	285.4	291.2	306.3	313.2	317.9	350.3	536.0	3377.0	7961.7	9064.9
77.5°	228.5	233.2	236.7	252.9	257.5	264.5	288.9	387.5	1482.6	2860.8	2886.3
80°	167.1	172.9	183.3	198.4	201.9	206.5	220.4	274.9	671.7	1306.3	1418.8
82.5°	123.0	131.1	118.3	138.1	138.1	132.3	155.5	184.5	308.6	1293.5	1547.6
85°	67.3	68.4	61.5	70.8	75.4	74.2	82.4	90.5	149.7	863.1	889.8
87.5°	16.2	17.4	18.6	22.0	26.7	26.7	29.0	25.5	48.7	279.6	160.1
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)