

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: P453976

Luminaire Tested: **GALN-SA5A-740-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453976
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-SA5A-740-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22861 lumens
Efficiency: N/A
Efficacy: 148.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

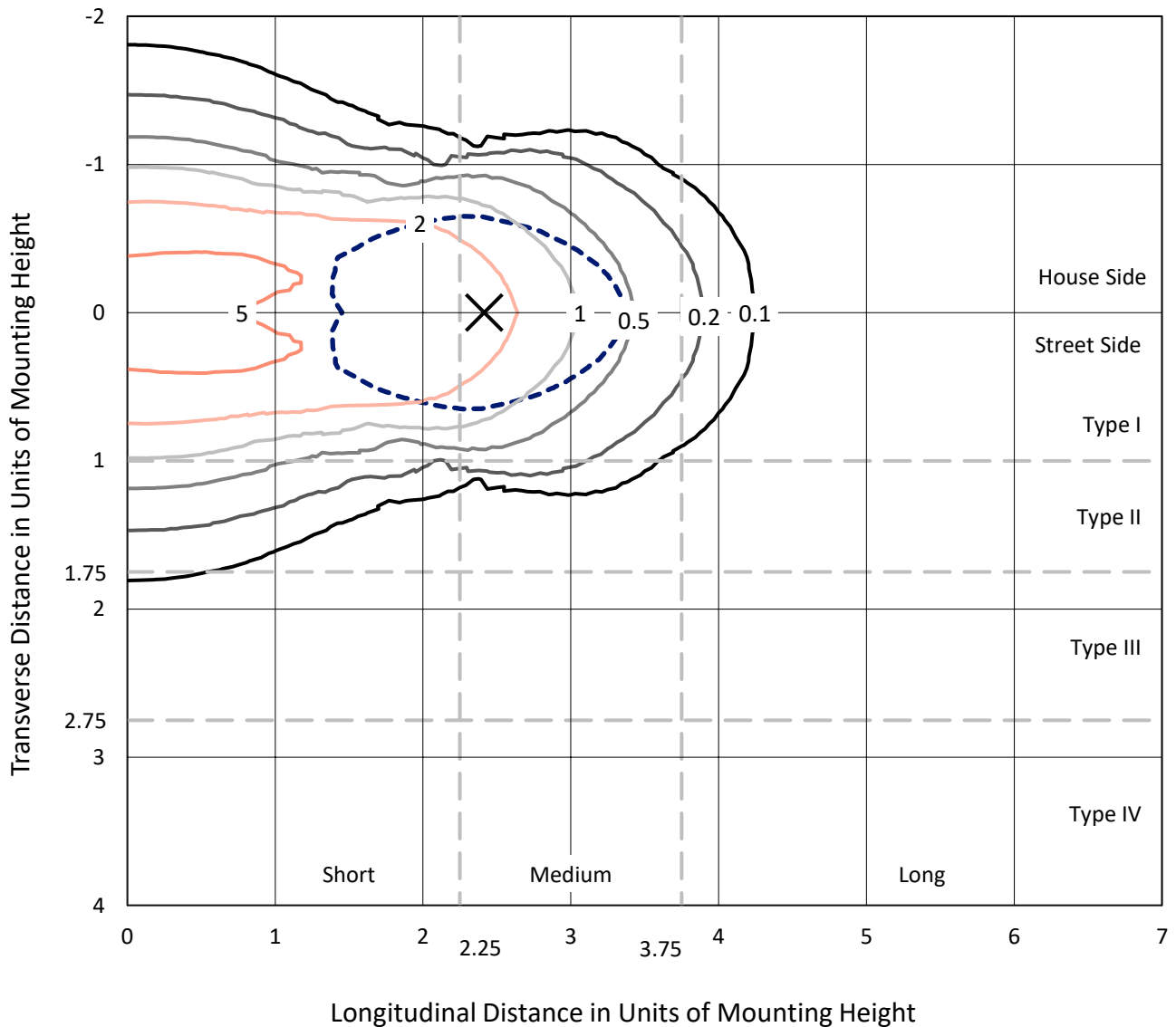
Input Watts (W): 154
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

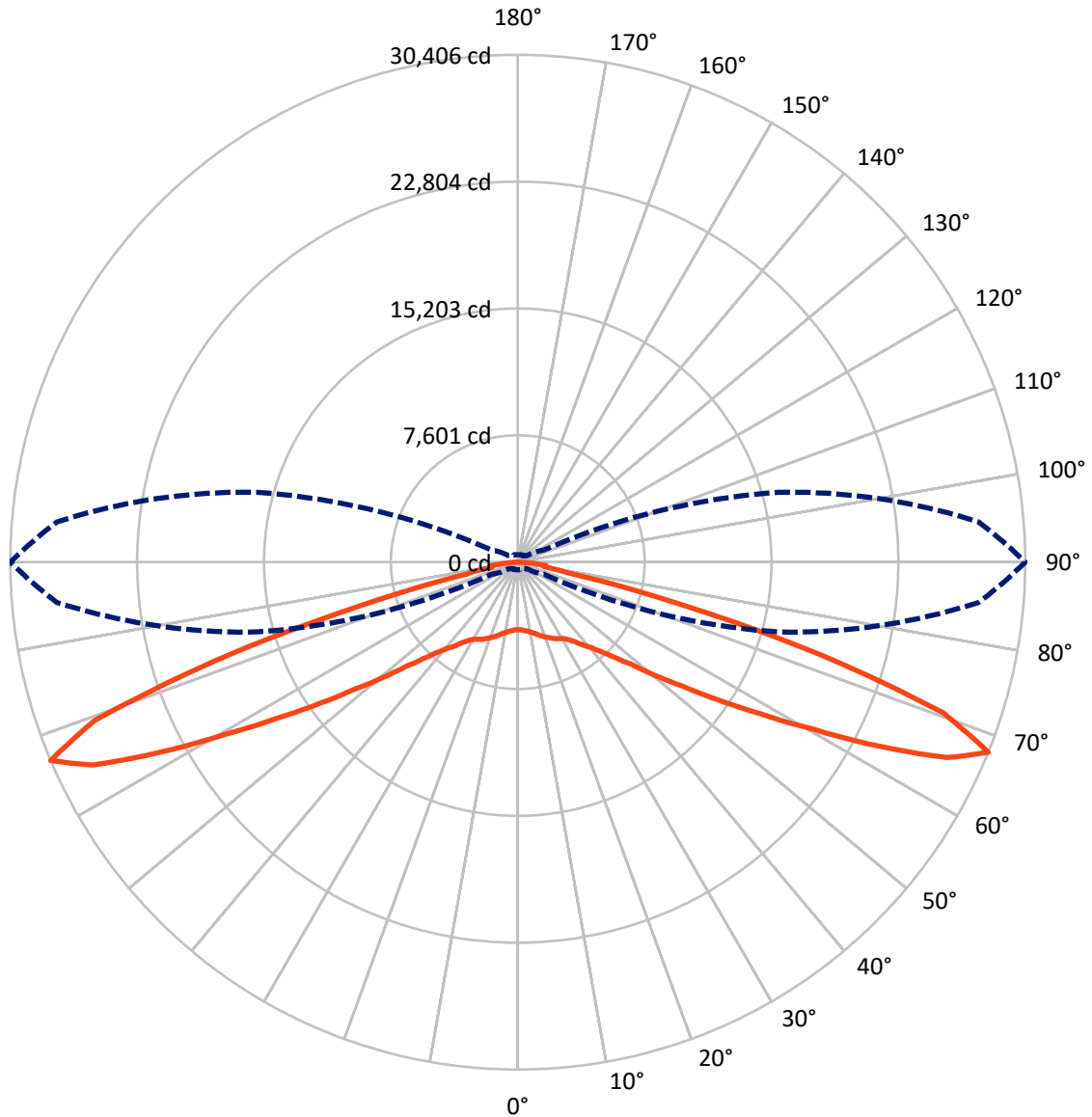
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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	11430.5	0.0	11430.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11430.5	0.0	11430.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	22861.0	0.0	22861.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	403.5	1.8
10°-20°	1291.0	5.6
20°-30°	2160.8	9.5
30°-40°	2927.3	12.8
40°-50°	3707.9	16.2
50°-60°	4632.0	20.3
60°-70°	5444.7	23.8
70°-80°	2082.9	9.1
80°-90°	211.0	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°	22861.0	100.0
0°-180°	22861.0	100.0

Coefficient of Utilization



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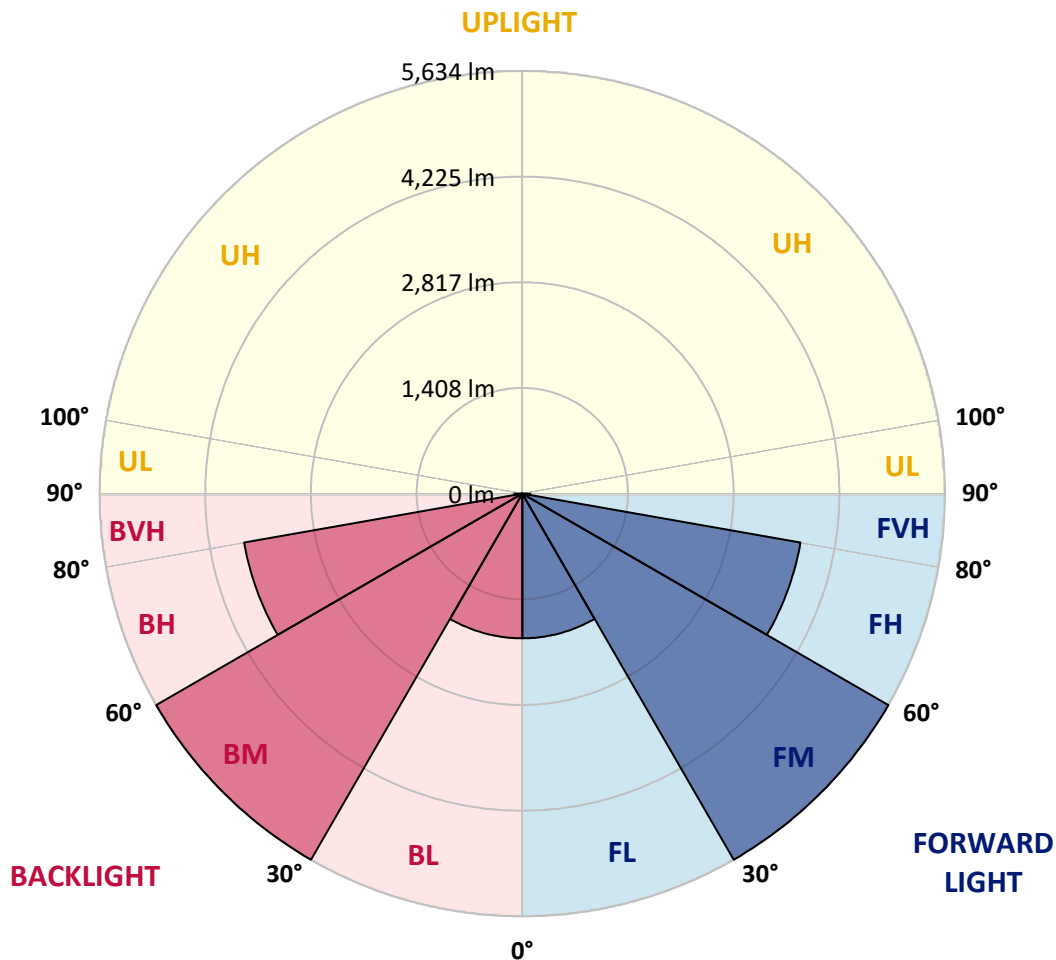
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1927.6	8.4			
FM (30°-60°)	5633.6	24.6			
FH (60°-80°)	3763.8	16.5			G2/5000
FVH (80°-90°)	105.5	0.5			G2/225
BL (0°-30°)	1927.6	8.4	B3/2500		
BM (30°-60°)	5633.6	24.6	B4/8500		
BH (60°-80°)	3763.8	16.5	B4/5000		G4/5000
BVH (80°-90°)	105.5	0.5			G2/225
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°	4047.1	4047.1	4047.1	4047.1	4047.1	4047.1	4047.1	4047.1	4047.1	4047.1	4047.1
2.5°	4099.0	4096.5	4097.7	4096.5	4100.3	4097.7	4082.6	4069.9	4059.8	4061.0	4057.2
5°	4186.4	4187.6	4188.9	4182.6	4191.4	4186.4	4162.3	4142.1	4121.8	4114.2	4111.7
7.5°	4258.5	4264.8	4268.6	4275.0	4290.2	4290.2	4277.5	4248.4	4204.1	4178.8	4177.5
10°	4330.7	4335.7	4347.1	4367.4	4392.7	4416.8	4411.7	4372.4	4315.5	4272.4	4262.3
12.5°	4356.0	4362.3	4400.3	4458.5	4515.5	4562.3	4562.3	4530.7	4457.3	4391.4	4372.4
15°	4267.4	4278.8	4347.1	4471.2	4620.6	4723.1	4745.9	4701.6	4623.1	4521.8	4499.0
17.5°	4091.4	4119.3	4219.3	4402.8	4650.9	4863.6	4929.4	4907.9	4806.7	4677.5	4650.9
20°	3902.8	3933.2	4039.5	4282.6	4625.6	4945.9	5137.1	5142.1	5016.8	4829.4	4790.2
22.5°	3695.2	3718.0	3854.7	4139.5	4549.7	4964.9	5315.5	5402.9	5233.3	4981.3	4925.6
25°	3462.3	3487.6	3630.6	3938.2	4406.6	4943.4	5478.9	5671.3	5459.9	5143.4	5072.5
27.5°	3239.5	3249.6	3402.8	3715.4	4218.0	4887.7	5599.1	5918.1	5710.5	5277.6	5187.7
30°	3025.5	3049.6	3185.0	3493.9	4001.5	4778.8	5702.9	6199.2	5980.2	5418.1	5302.9
32.5°	2798.9	2828.0	2974.9	3287.6	3785.1	4615.5	5766.2	6506.8	6356.1	5646.0	5523.2
35°	2581.2	2600.2	2748.3	3052.1	3573.7	4425.6	5777.6	6853.6	6841.0	5991.5	5828.2
37.5°	2358.4	2386.2	2535.6	2826.8	3349.6	4224.3	5720.6	7222.0	7425.8	6471.3	6295.4
40°	2144.4	2168.5	2315.3	2609.0	3095.1	3978.7	5585.2	7558.7	8108.1	6965.0	6715.6
42.5°	1911.5	1917.9	2078.6	2377.4	2845.8	3693.9	5390.2	7858.8	8869.0	7627.1	7316.9
45°	1646.9	1663.4	1812.8	2106.5	2559.7	3374.9	5125.7	8106.9	9833.6	8544.9	8122.1
47.5°	1382.4	1396.3	1533.0	1822.9	2247.0	3009.1	4718.0	8324.6	10823.5	9710.8	9156.3
50°	1124.1	1131.7	1243.1	1500.1	1895.1	2624.2	4212.9	8394.2	11942.6	11361.5	10653.9
52.5°	888.7	900.1	984.9	1186.2	1519.1	2169.8	3667.3	8222.1	13249.0	13318.6	12321.1
55°	720.3	724.1	787.4	935.5	1187.4	1693.8	3009.1	7742.3	14654.2	15826.4	14554.1
57.5°	620.3	622.8	658.3	740.6	914.0	1277.3	2334.3	6834.6	15916.3	18764.6	17129.0
60°	563.3	564.6	584.8	633.0	724.1	979.8	1672.3	5553.5	17161.9	22034.4	20329.2
62.5°	527.9	527.9	541.8	568.4	612.7	751.9	1211.5	4006.6	18015.1	25352.3	24273.8
65°	493.7	493.7	503.8	522.8	546.9	615.2	895.0	2612.8	17993.6	27769.0	28241.1
67.5°	454.5	454.5	462.1	481.0	495.0	529.1	691.2	1711.5	16163.1	27715.8	30405.9
70°	407.6	407.6	417.7	434.2	445.6	467.1	545.6	1171.0	11874.2	23664.9	27041.1
72.5°	360.8	362.0	368.4	384.8	393.7	406.4	453.2	820.3	7284.0	16113.7	18907.6
75°	308.9	311.4	317.7	334.2	341.8	346.9	382.3	584.8	3685.1	8687.9	9891.8
77.5°	249.4	254.4	258.2	276.0	281.0	288.6	315.2	422.8	1617.8	3121.7	3149.6
80°	182.3	188.6	200.0	216.5	220.3	225.3	240.5	300.0	733.0	1425.4	1548.2
82.5°	134.2	143.0	129.1	150.6	150.6	144.3	169.6	201.3	336.7	1411.5	1688.7
85°	73.4	74.7	67.1	77.2	82.3	81.0	89.9	98.7	163.3	941.8	971.0
87.5°	17.7	19.0	20.3	24.1	29.1	29.1	31.6	27.8	53.2	305.1	174.7
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)