

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: P453019

Luminaire Tested: **GALN-SA4A-730-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453019
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-SA4A-730-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16447 lumens
Efficiency: N/A
Efficacy: 135.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

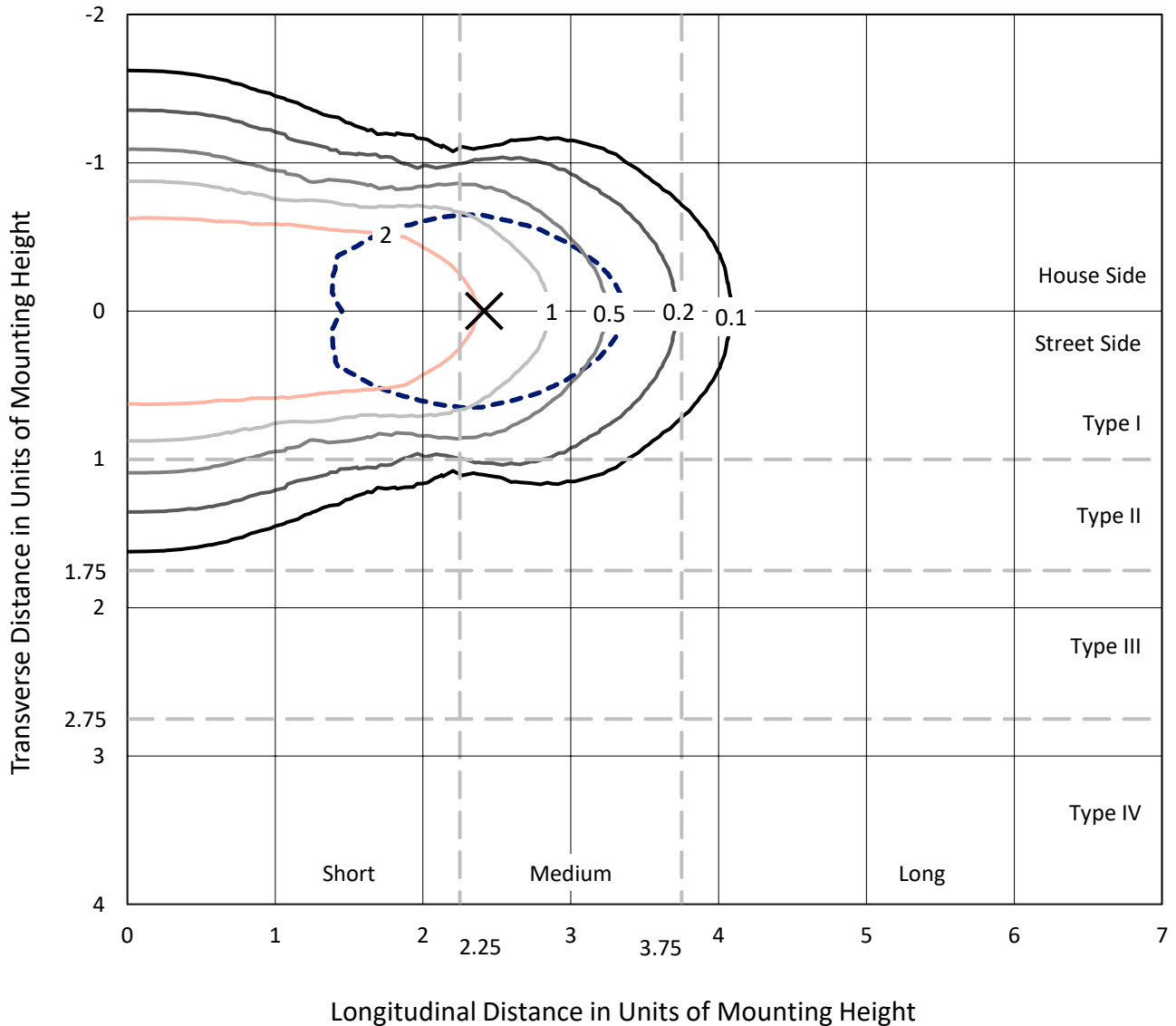
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

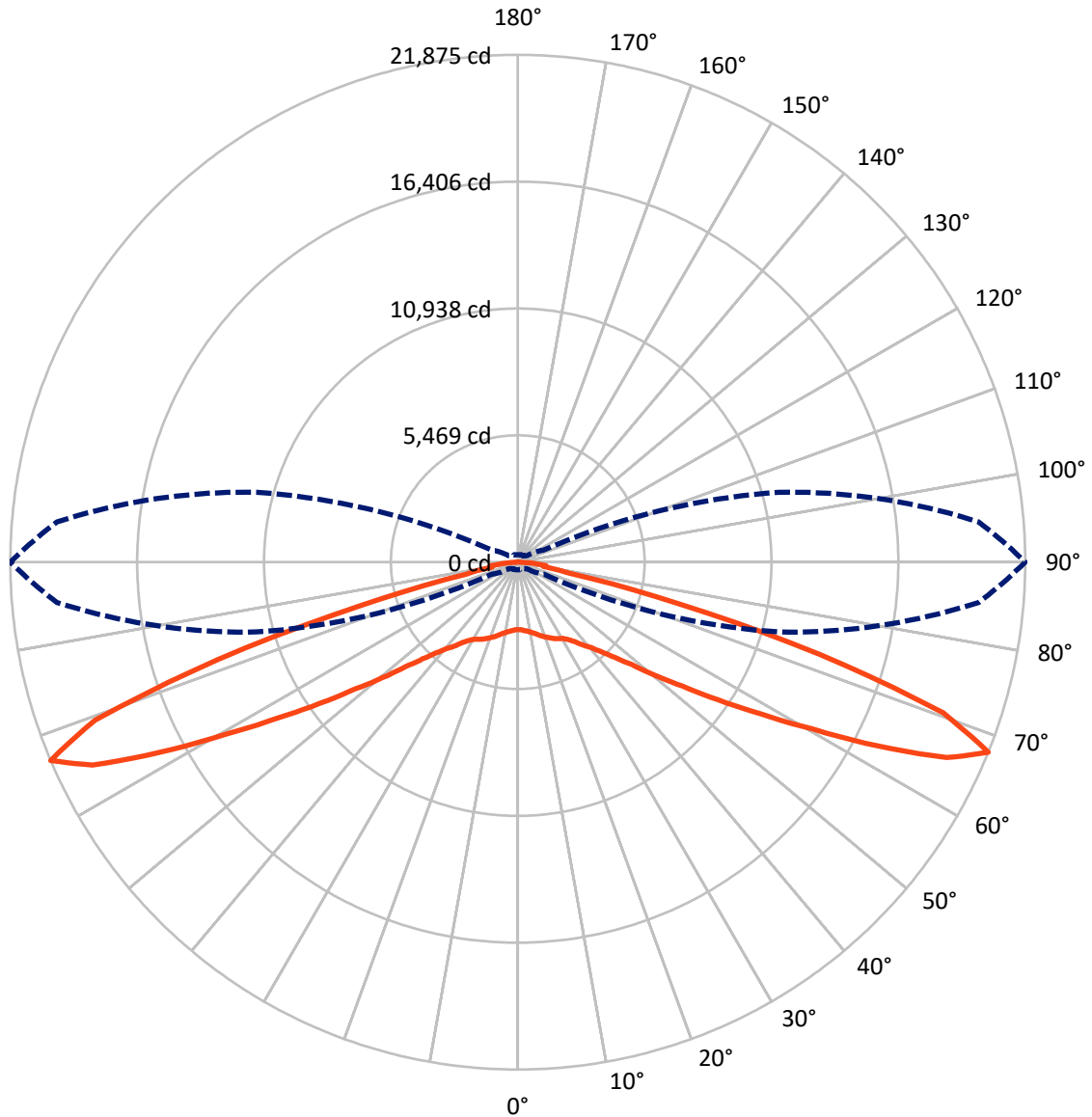
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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	8223.5	0.0	8223.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8223.5	0.0	8223.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	16447.0	0.0	16447.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.3	1.8
10°-20°	928.8	5.6
20°-30°	1554.5	9.5
30°-40°	2106.0	12.8
40°-50°	2667.6	16.2
50°-60°	3332.5	20.3
60°-70°	3917.1	23.8
70°-80°	1498.5	9.1
80°-90°	151.8	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°	16447.0	100.0
0°-180°	16447.0	100.0

Coefficient of Utilization



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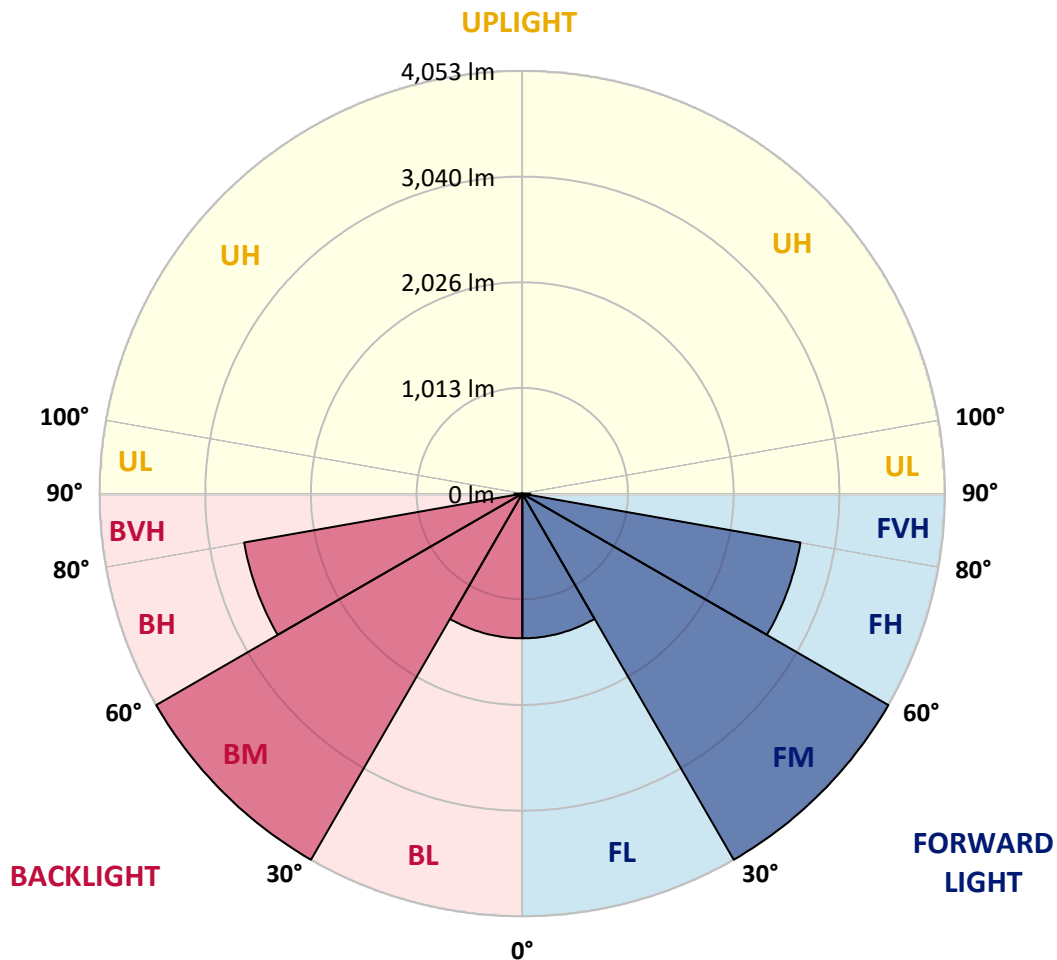
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1386.8	8.4			
FM (30°-60°)	4053.0	24.6			
FH (60°-80°)	2707.8	16.5			G2/5000
FVH (80°-90°)	75.9	0.5			G1/100
BL (0°-30°)	1386.8	8.4	B3/2500		
BM (30°-60°)	4053.0	24.6	B3/5000		
BH (60°-80°)	2707.8	16.5	B4/5000		G4/5000
BVH (80°-90°)	75.9	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°	2911.6	2911.6	2911.6	2911.6	2911.6	2911.6	2911.6	2911.6	2911.6	2911.6	2911.6
2.5°	2949.0	2947.1	2948.1	2947.1	2949.9	2948.1	2937.1	2928.0	2920.7	2921.6	2918.9
5°	3011.8	3012.7	3013.6	3009.1	3015.5	3011.8	2994.5	2979.9	2965.4	2959.9	2958.1
7.5°	3063.7	3068.3	3071.0	3075.6	3086.5	3086.5	3077.4	3056.4	3024.6	3006.3	3005.4
10°	3115.6	3119.3	3127.5	3142.0	3160.3	3177.6	3173.9	3145.7	3104.7	3073.7	3066.5
12.5°	3133.9	3138.4	3165.7	3207.6	3248.6	3282.3	3282.3	3259.5	3206.7	3159.4	3145.7
15°	3070.1	3078.3	3127.5	3216.7	3324.2	3398.0	3414.4	3382.5	3326.0	3253.2	3236.8
17.5°	2943.5	2963.5	3035.5	3167.5	3346.1	3499.1	3546.4	3530.9	3458.1	3365.2	3346.1
20°	2807.8	2829.7	2906.2	3081.0	3327.8	3558.3	3695.8	3699.4	3609.3	3474.5	3446.2
22.5°	2658.4	2674.8	2773.2	2978.1	3273.2	3571.9	3824.2	3887.0	3765.0	3583.8	3543.7
25°	2490.9	2509.1	2612.0	2833.3	3170.3	3556.4	3941.7	4080.1	3928.0	3700.3	3649.3
27.5°	2330.6	2337.9	2448.1	2673.0	3034.6	3516.4	4028.2	4257.7	4108.3	3796.9	3732.2
30°	2176.7	2194.0	2291.4	2513.6	2878.8	3438.0	4102.9	4459.9	4302.3	3898.0	3815.1
32.5°	2013.6	2034.6	2140.2	2365.2	2723.1	3320.6	4148.4	4681.2	4572.8	4061.9	3973.6
35°	1857.0	1870.7	1977.2	2195.8	2571.0	3183.9	4156.6	4930.7	4921.6	4310.5	4193.0
37.5°	1696.7	1716.7	1824.2	2033.7	2409.8	3039.1	4115.6	5195.8	5342.4	4655.7	4529.1
40°	1542.8	1560.1	1665.7	1877.0	2226.8	2862.5	4018.2	5438.0	5833.3	5010.9	4831.5
42.5°	1375.2	1379.8	1495.4	1710.4	2047.3	2657.5	3877.9	5653.9	6380.6	5487.2	5264.1
45°	1184.9	1196.7	1304.2	1515.5	1841.5	2428.0	3687.6	5832.4	7074.6	6147.5	5843.3
47.5°	994.5	1004.5	1102.9	1311.5	1616.6	2164.8	3394.3	5989.0	7786.8	6986.3	6587.4
50°	808.7	814.2	894.3	1079.2	1363.4	1888.0	3030.9	6039.1	8591.9	8173.9	7664.8
52.5°	639.3	647.5	708.6	853.4	1092.9	1561.0	2638.4	5915.2	9531.8	9581.9	8864.2
55°	518.2	520.9	566.5	673.0	854.3	1218.6	2164.8	5570.1	10542.7	11386.1	10470.8
57.5°	446.3	448.1	473.6	532.8	657.6	918.9	1679.4	4917.1	11450.7	13499.9	12323.2
60°	405.3	406.2	420.8	455.4	520.9	704.9	1203.1	3995.4	12346.9	15852.3	14625.6
62.5°	379.8	379.8	389.8	408.9	440.8	541.0	871.6	2882.5	12960.7	18239.4	17463.4
65°	355.2	355.2	362.5	376.1	393.4	442.6	643.9	1879.8	12945.2	19978.0	20317.7
67.5°	327.0	327.0	332.4	346.1	356.1	380.7	497.3	1231.3	11628.3	19939.7	21875.0
70°	293.3	293.3	300.5	312.4	320.6	336.1	392.5	842.4	8542.7	17025.3	19454.3
72.5°	259.6	260.5	265.0	276.9	283.2	292.3	326.0	590.2	5240.4	11592.8	13602.8
75°	222.2	224.0	228.6	240.4	245.9	249.5	275.0	420.8	2651.2	6250.4	7116.5
77.5°	179.4	183.1	185.8	198.5	202.2	207.6	226.8	304.2	1163.9	2245.9	2265.9
80°	131.1	135.7	143.9	155.7	158.5	162.1	173.0	215.8	527.3	1025.5	1113.8
82.5°	96.5	102.9	92.9	108.4	108.4	103.8	122.0	144.8	242.3	1015.5	1214.9
85°	52.8	53.7	48.3	55.6	59.2	58.3	64.7	71.0	117.5	677.6	698.5
87.5°	12.8	13.7	14.6	17.3	20.9	20.9	22.8	20.0	38.3	219.5	125.7
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)