

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: P453251

Luminaire Tested: **GALN-SA4B-730-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453251
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-SA4B-730-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20464 lumens
Efficiency: N/A
Efficacy: 124.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

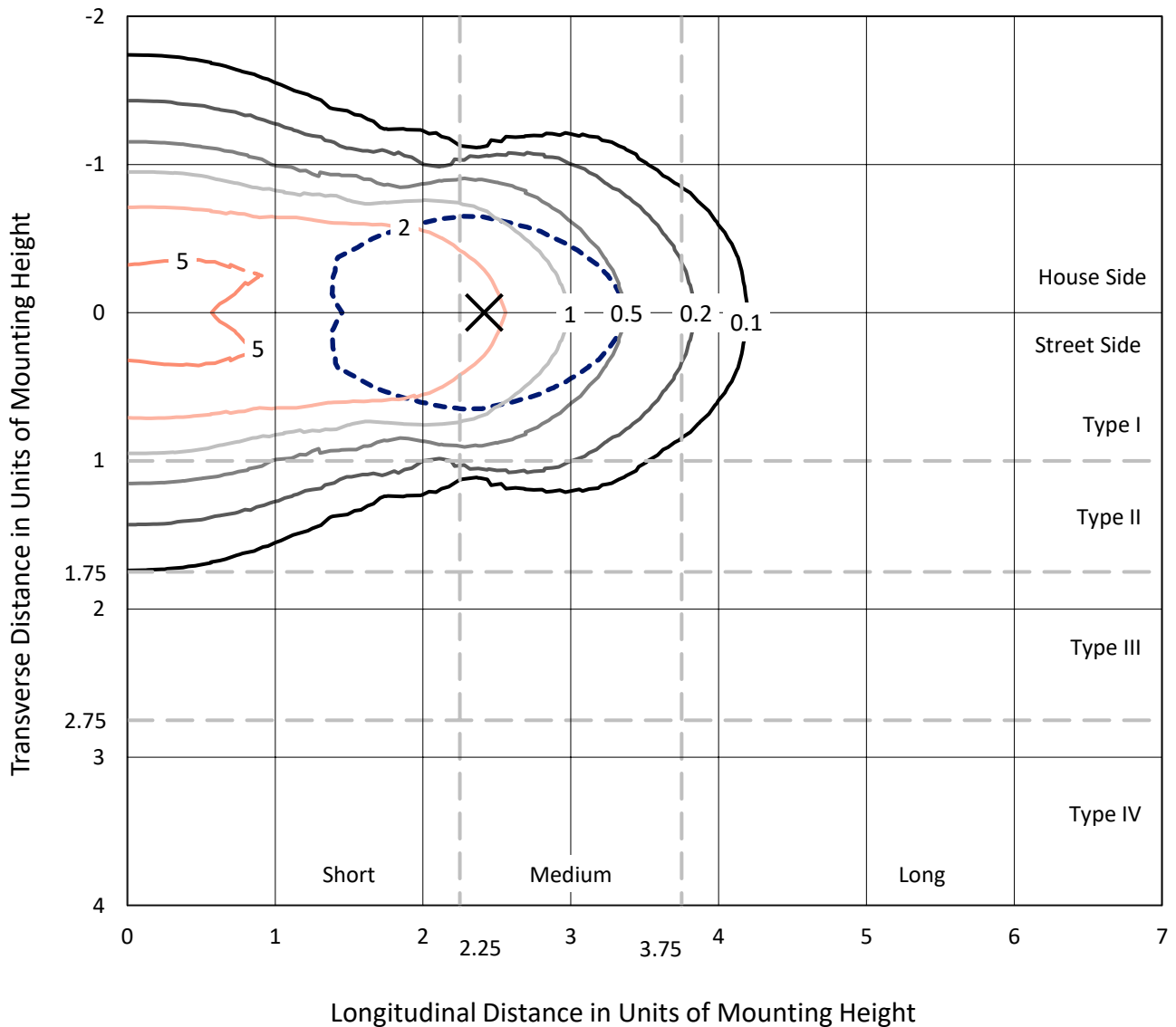
Input Watts (W): 164
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

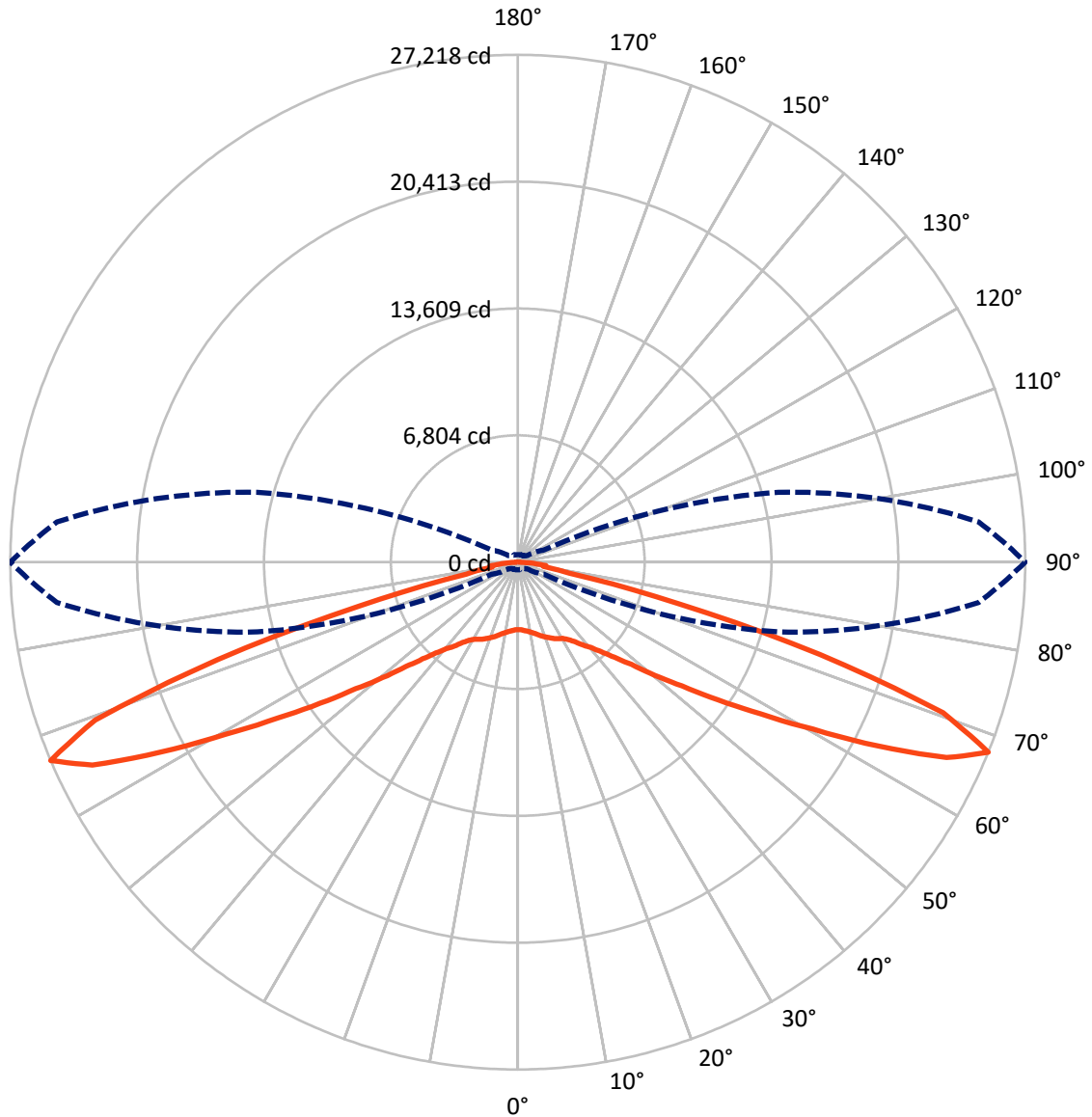
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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	10232.0	0.0	10232.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10232.0	0.0	10232.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	20464.0	0.0	20464.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	361.2	1.8
10°-20°	1155.6	5.6
20°-30°	1934.2	9.5
30°-40°	2620.3	12.8
40°-50°	3319.1	16.2
50°-60°	4146.4	20.3
60°-70°	4873.9	23.8
70°-80°	1864.5	9.1
80°-90°	188.9	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°	20464.0	100.0
0°-180°	20464.0	100.0

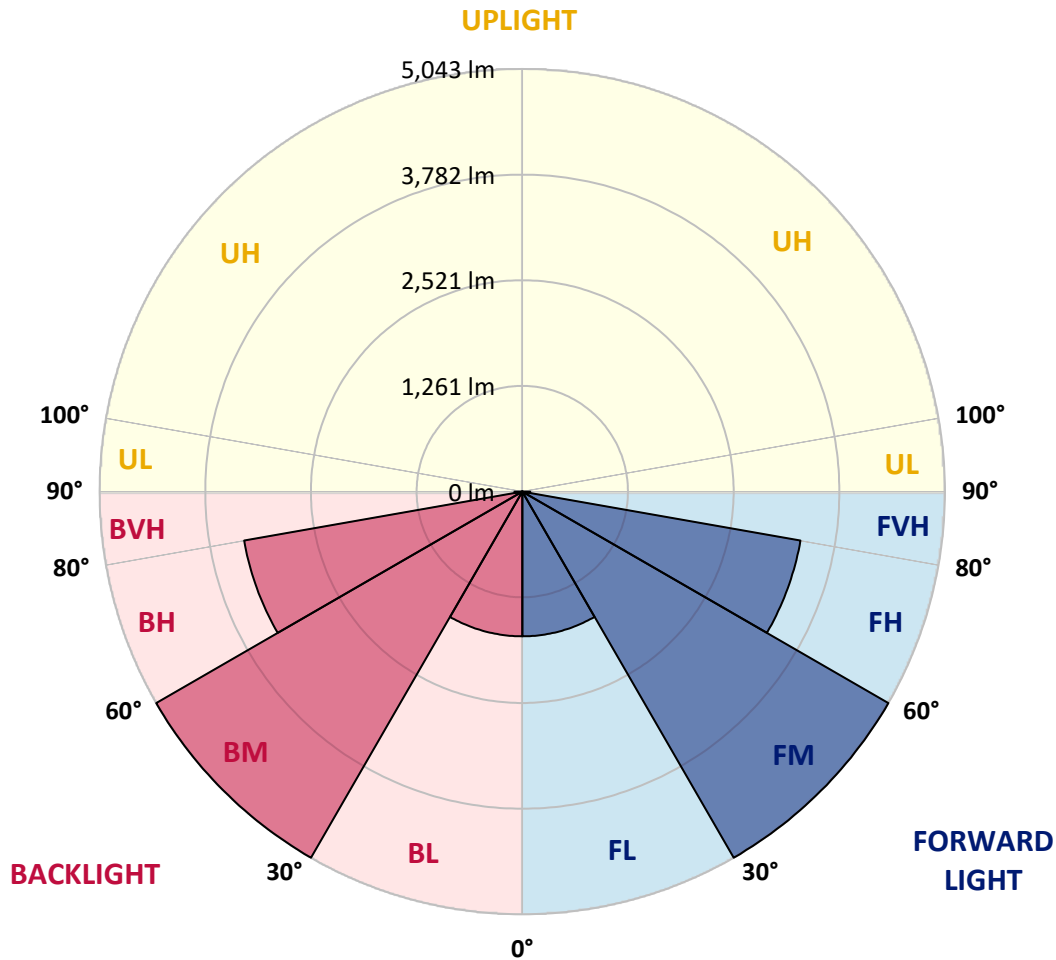


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1725.5	8.4			
FM (30°-60°)	5042.9	24.6			
FH (60°-80°)	3369.2	16.5			G2/5000
FVH (80°-90°)	94.4	0.5			G1/100
BL (0°-30°)	1725.5	8.4	B3/2500		
BM (30°-60°)	5042.9	24.6	B4/8500		
BH (60°-80°)	3369.2	16.5	B4/5000		G4/5000
BVH (80°-90°)	94.4	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°	3622.8	3622.8	3622.8	3622.8	3622.8	3622.8	3622.8	3622.8	3622.8	3622.8	3622.8
2.5°	3669.2	3667.0	3668.1	3667.0	3670.4	3668.1	3654.5	3643.2	3634.1	3635.2	3631.8
5°	3747.4	3748.5	3749.7	3744.0	3751.9	3747.4	3725.9	3707.8	3689.6	3682.8	3680.6
7.5°	3812.0	3817.7	3821.1	3826.7	3840.3	3840.3	3829.0	3802.9	3763.3	3740.6	3739.5
10°	3876.6	3881.1	3891.3	3909.5	3932.1	3953.7	3949.1	3914.0	3863.0	3824.5	3815.4
12.5°	3899.3	3904.9	3938.9	3991.0	4042.0	4084.0	4084.0	4055.6	3989.9	3931.0	3914.0
15°	3819.9	3830.1	3891.3	4002.4	4136.1	4227.9	4248.3	4208.6	4138.4	4047.7	4027.3
17.5°	3662.4	3687.4	3776.9	3941.2	4163.3	4353.7	4412.6	4393.3	4302.7	4187.1	4163.3
20°	3493.6	3520.8	3616.0	3833.5	4140.6	4427.3	4598.4	4603.0	4490.8	4323.1	4287.9
22.5°	3307.7	3328.1	3450.5	3705.5	4072.6	4444.3	4758.2	4836.4	4684.6	4459.0	4409.2
25°	3099.2	3121.9	3250.0	3525.3	3944.6	4425.1	4904.4	5076.6	4887.4	4604.1	4540.6
27.5°	2899.8	2908.9	3046.0	3325.9	3775.7	4375.2	5012.0	5297.6	5111.8	4724.2	4643.8
30°	2708.3	2729.8	2851.1	3127.6	3582.0	4277.7	5105.0	5549.2	5353.1	4850.0	4746.9
32.5°	2505.5	2531.5	2663.0	2942.9	3388.2	4131.6	5161.6	5824.5	5689.7	5054.0	4944.0
35°	2310.5	2327.5	2460.1	2732.1	3199.0	3961.6	5171.8	6135.0	6123.7	5363.3	5217.1
37.5°	2111.1	2136.0	2269.8	2530.4	2998.4	3781.4	5120.8	6464.8	6647.2	5792.8	5635.3
40°	1919.6	1941.1	2072.6	2335.5	2770.6	3561.6	4999.6	6766.2	7258.0	6234.7	6011.5
42.5°	1711.1	1716.8	1860.7	2128.1	2547.4	3306.6	4825.1	7034.8	7939.0	6827.4	6549.8
45°	1474.3	1489.0	1622.7	1885.6	2291.3	3021.0	4588.2	7256.9	8802.5	7648.9	7270.5
47.5°	1237.4	1249.9	1372.3	1631.8	2011.4	2693.6	4223.3	7451.8	9688.7	8692.6	8196.3
50°	1006.3	1013.1	1112.8	1342.8	1696.4	2349.1	3771.2	7514.1	10690.4	10170.3	9536.8
52.5°	795.5	805.7	881.6	1061.8	1359.8	1942.3	3282.8	7360.0	11859.8	11922.1	11029.2
55°	644.8	648.2	704.8	837.4	1062.9	1516.2	2693.6	6930.5	13117.7	14167.0	13028.1
57.5°	555.3	557.5	589.3	662.9	818.2	1143.4	2089.6	6118.0	14247.4	16797.1	15333.0
60°	504.3	505.4	523.5	566.6	648.2	877.1	1496.9	4971.2	15362.5	19724.1	18197.7
62.5°	472.5	472.5	485.0	508.8	548.5	673.1	1084.4	3586.5	16126.2	22694.1	21728.7
65°	441.9	441.9	451.0	468.0	489.5	550.7	801.2	2338.9	16107.0	24857.4	25280.0
67.5°	406.8	406.8	413.6	430.6	443.1	473.7	618.7	1532.1	14468.4	24809.8	27217.8
70°	364.9	364.9	373.9	388.7	398.9	418.1	488.4	1048.2	10629.2	21183.6	24205.8
72.5°	323.0	324.1	329.8	344.5	352.4	363.7	405.7	734.3	6520.3	14424.2	16925.1
75°	276.5	278.8	284.4	299.2	306.0	310.5	342.2	523.5	3298.7	7777.0	8854.6
77.5°	223.2	227.8	231.2	247.0	251.6	258.4	282.2	378.5	1448.2	2794.4	2819.3
80°	163.2	168.8	179.0	193.8	197.2	201.7	215.3	268.6	656.1	1276.0	1385.9
82.5°	120.1	128.0	115.6	134.8	134.8	129.2	151.8	180.2	301.4	1263.5	1511.7
85°	65.7	66.9	60.1	69.1	73.7	72.5	80.5	88.4	146.2	843.1	869.1
87.5°	15.9	17.0	18.1	21.5	26.1	26.1	28.3	24.9	47.6	273.1	156.4
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)