

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: P453570

Luminaire Tested: **GALN-SA4C-760-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453570
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-SA4C-760-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27763 lumens
Efficiency: N/A
Efficacy: 130.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

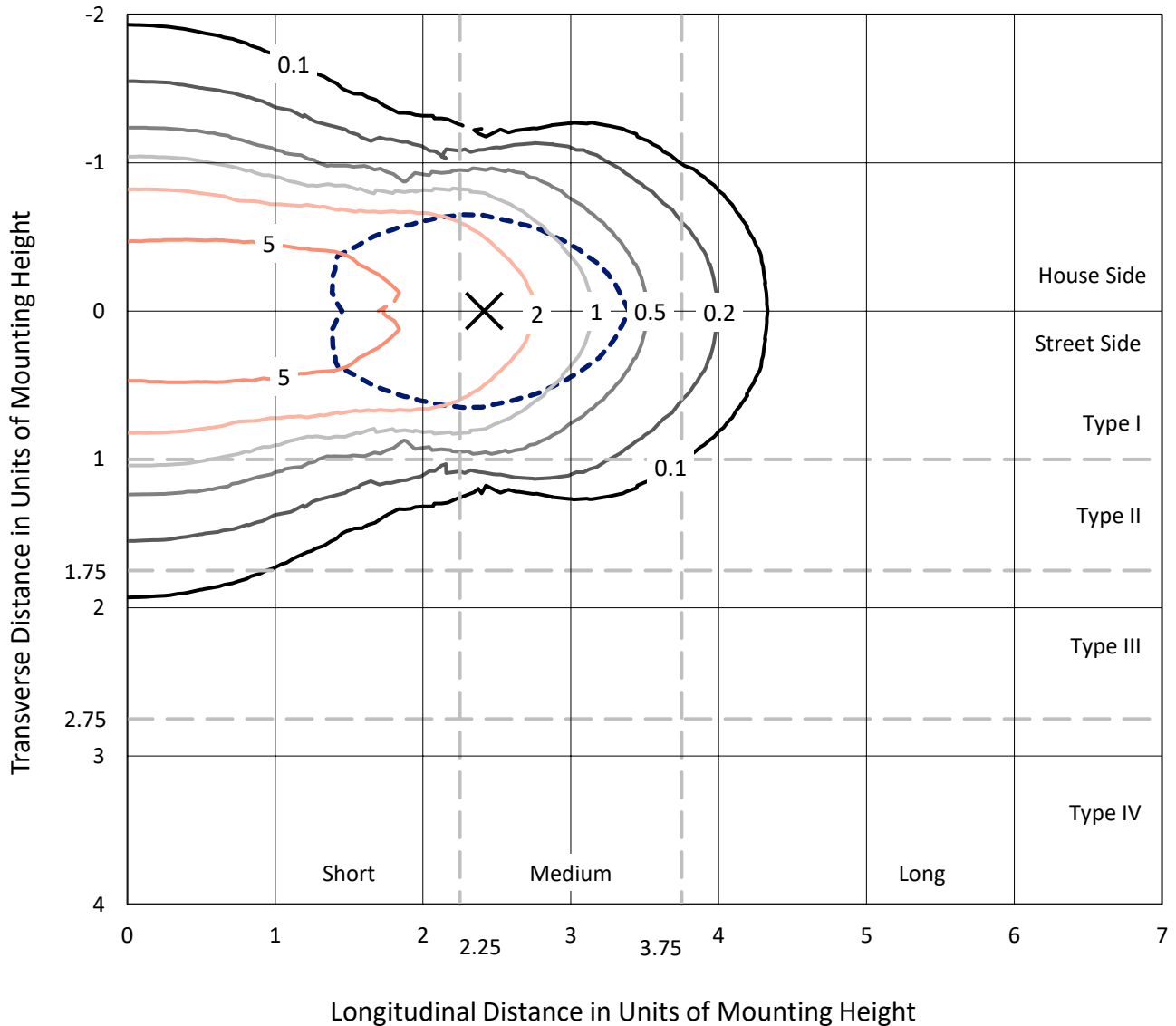
Input Watts (W): 213
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

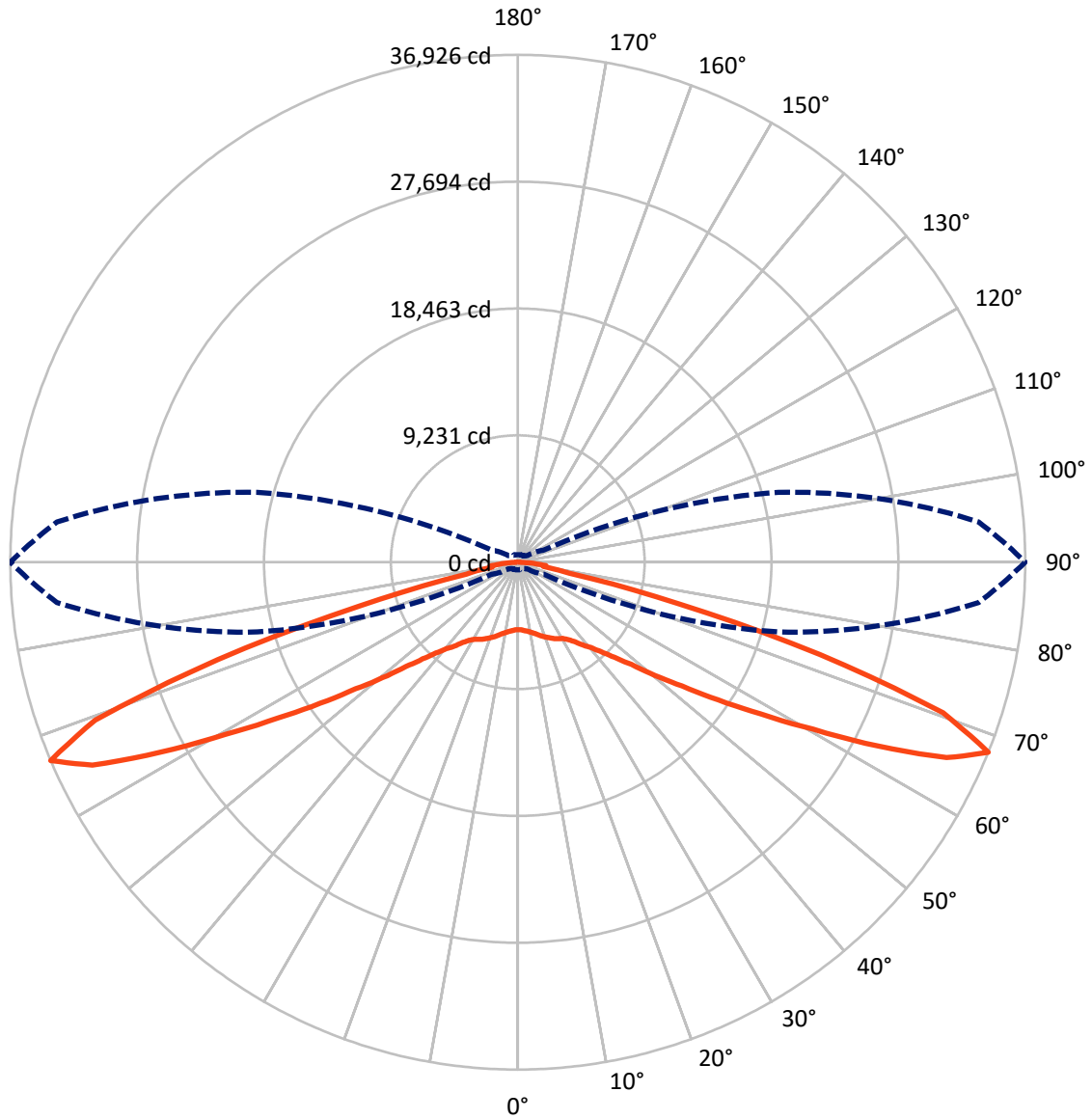
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 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	13881.5	0.0	13881.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13881.5	0.0	13881.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	27763.0	0.0	27763.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	490.0	1.8
10°-20°	1567.8	5.6
20°-30°	2624.1	9.5
30°-40°	3554.9	12.8
40°-50°	4502.9	16.2
50°-60°	5625.3	20.3
60°-70°	6612.3	23.8
70°-80°	2529.5	9.1
80°-90°	256.3	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°	27763.0	100.0
0°-180°	27763.0	100.0

Coefficient of Utilization



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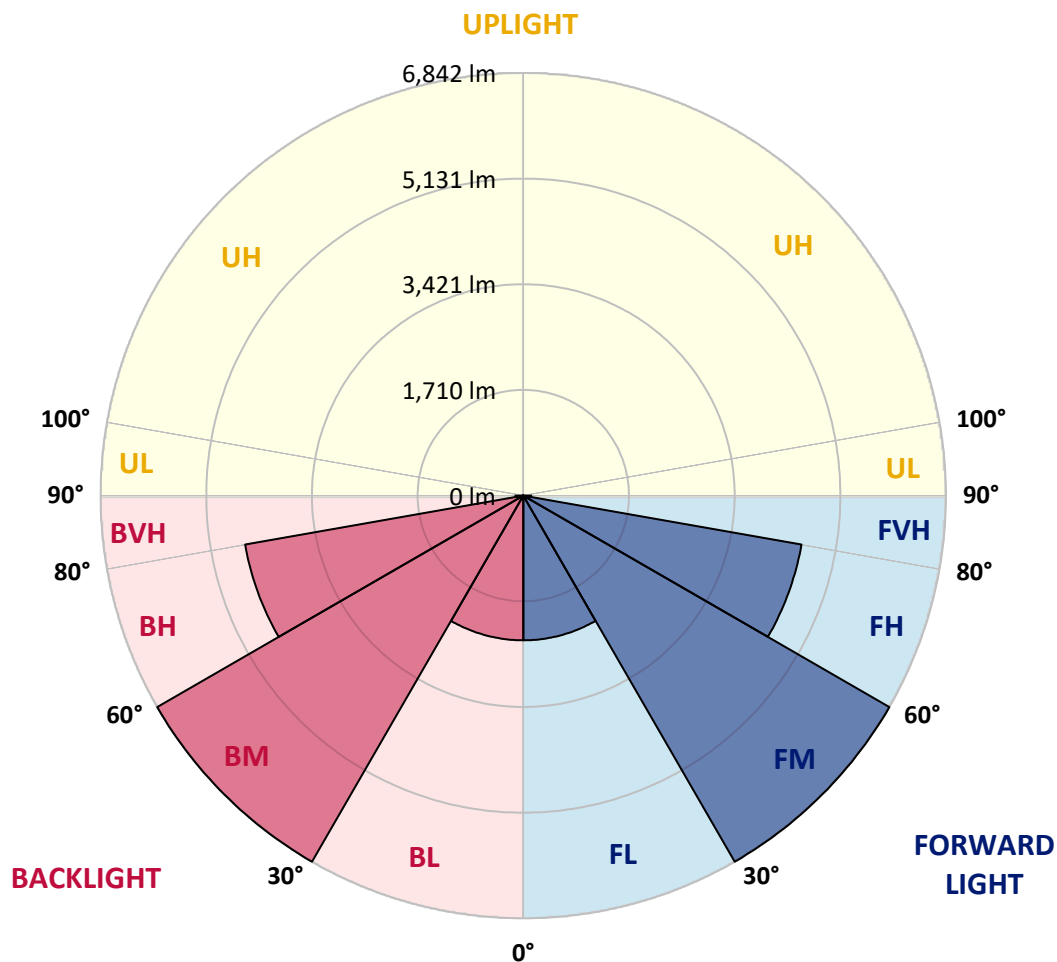
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2340.9	8.4			
FM (30°-60°)	6841.6	24.6			
FH (60°-80°)	4570.9	16.5			G2/5000
FVH (80°-90°)	128.1	0.5			G2/225
BL (0°-30°)	2340.9	8.4	B3/2500		
BM (30°-60°)	6841.6	24.6	B4/8500		
BH (60°-80°)	4570.9	16.5	B4/5000		G4/5000
BVH (80°-90°)	128.1	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°	4914.9	4914.9	4914.9	4914.9	4914.9	4914.9	4914.9	4914.9	4914.9	4914.9	4914.9
2.5°	4977.9	4974.9	4976.4	4974.9	4979.5	4976.4	4958.0	4942.6	4930.3	4931.8	4927.2
5°	5084.0	5085.6	5087.1	5079.4	5090.2	5084.0	5054.8	5030.2	5005.6	4996.4	4993.3
7.5°	5171.7	5179.3	5184.0	5191.6	5210.1	5210.1	5194.7	5159.4	5105.5	5074.8	5073.3
10°	5259.3	5265.4	5279.3	5303.9	5334.6	5363.8	5357.7	5310.0	5240.8	5188.6	5176.3
12.5°	5290.0	5297.7	5343.8	5414.6	5483.7	5540.6	5540.6	5502.2	5413.0	5333.1	5310.0
15°	5182.4	5196.3	5279.3	5429.9	5611.3	5735.9	5763.5	5709.7	5614.4	5491.4	5463.8
17.5°	4968.7	5002.5	5124.0	5346.9	5648.2	5906.5	5986.4	5960.3	5837.3	5680.5	5648.2
20°	4739.7	4776.6	4905.7	5200.9	5617.5	6006.4	6238.6	6244.7	6092.5	5865.0	5817.3
22.5°	4487.5	4515.2	4681.2	5027.1	5525.2	6029.5	6455.3	6561.4	6355.4	6049.5	5981.8
25°	4204.7	4235.4	4409.1	4782.7	5351.5	6003.4	6653.7	6887.3	6630.6	6246.3	6160.2
27.5°	3934.1	3946.4	4132.4	4512.1	5122.5	5935.7	6799.7	7187.1	6935.0	6409.2	6300.1
30°	3674.3	3703.5	3868.0	4243.1	4859.6	5803.5	6925.8	7528.4	7262.5	6579.9	6440.0
32.5°	3399.1	3434.4	3612.8	3992.5	4596.7	5605.2	7002.6	7902.0	7719.0	6856.6	6707.5
35°	3134.7	3157.7	3337.6	3706.6	4339.9	5374.6	7016.5	8323.2	8307.9	7276.3	7078.0
37.5°	2864.1	2897.9	3079.3	3432.9	4067.8	5130.1	6947.3	8770.6	9018.1	7858.9	7645.3
40°	2604.3	2633.5	2811.8	3168.5	3758.8	4831.9	6782.8	9179.5	9846.7	8458.5	8155.7
42.5°	2321.4	2329.1	2524.3	2887.1	3456.0	4486.0	6546.0	9543.9	10770.7	9262.5	8885.9
45°	2000.1	2020.1	2201.5	2558.2	3108.5	4098.6	6224.7	9845.2	11942.2	10377.1	9863.7
47.5°	1678.8	1695.7	1861.7	2213.8	2728.8	3654.3	5729.7	10109.6	13144.4	11793.0	11119.7
50°	1365.2	1374.4	1509.7	1821.8	2301.4	3186.9	5116.3	10194.2	14503.4	13797.7	12938.4
52.5°	1079.2	1093.1	1196.1	1440.5	1844.8	2635.0	4453.7	9985.1	16089.9	16174.5	14963.1
55°	874.8	879.4	956.2	1136.1	1442.0	2057.0	3654.3	9402.4	17796.4	19220.0	17674.9
57.5°	753.3	756.4	799.4	899.4	1110.0	1551.2	2834.9	8300.2	19329.1	22788.2	20801.9
60°	684.1	685.7	710.3	768.7	879.4	1189.9	2030.8	6744.4	20841.9	26759.2	24688.3
62.5°	641.1	641.1	658.0	690.3	744.1	913.2	1471.2	4865.7	21878.1	30788.6	29478.7
65°	599.6	599.6	611.9	634.9	664.1	747.2	1086.9	3173.1	21851.9	33723.4	34296.8
67.5°	551.9	551.9	561.1	584.2	601.1	642.6	839.4	2078.5	19628.9	33658.8	36925.7
70°	495.0	495.0	507.3	527.3	541.1	567.3	662.6	1422.1	14420.4	28739.3	32839.4
72.5°	438.1	439.7	447.4	467.4	478.1	493.5	550.4	996.2	8845.9	19569.0	22961.9
75°	375.1	378.2	385.9	405.9	415.1	421.2	464.3	710.3	4475.2	10550.8	12012.9
77.5°	302.9	309.0	313.6	335.1	341.3	350.5	382.8	513.5	1964.7	3791.1	3824.9
80°	221.4	229.1	242.9	262.9	267.5	273.6	292.1	364.4	890.1	1731.1	1880.2
82.5°	163.0	173.7	156.8	182.9	182.9	175.3	206.0	244.4	408.9	1714.1	2050.8
85°	89.2	90.7	81.5	93.8	99.9	98.4	109.2	119.9	198.3	1143.8	1179.1
87.5°	21.5	23.1	24.6	29.2	35.4	35.4	38.4	33.8	64.6	370.5	212.2
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)