

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: P458107

Luminaire Tested: **GALN-SA9C-730-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458107
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-730-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 60878 lumens
Efficiency: N/A
Efficacy: 126.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

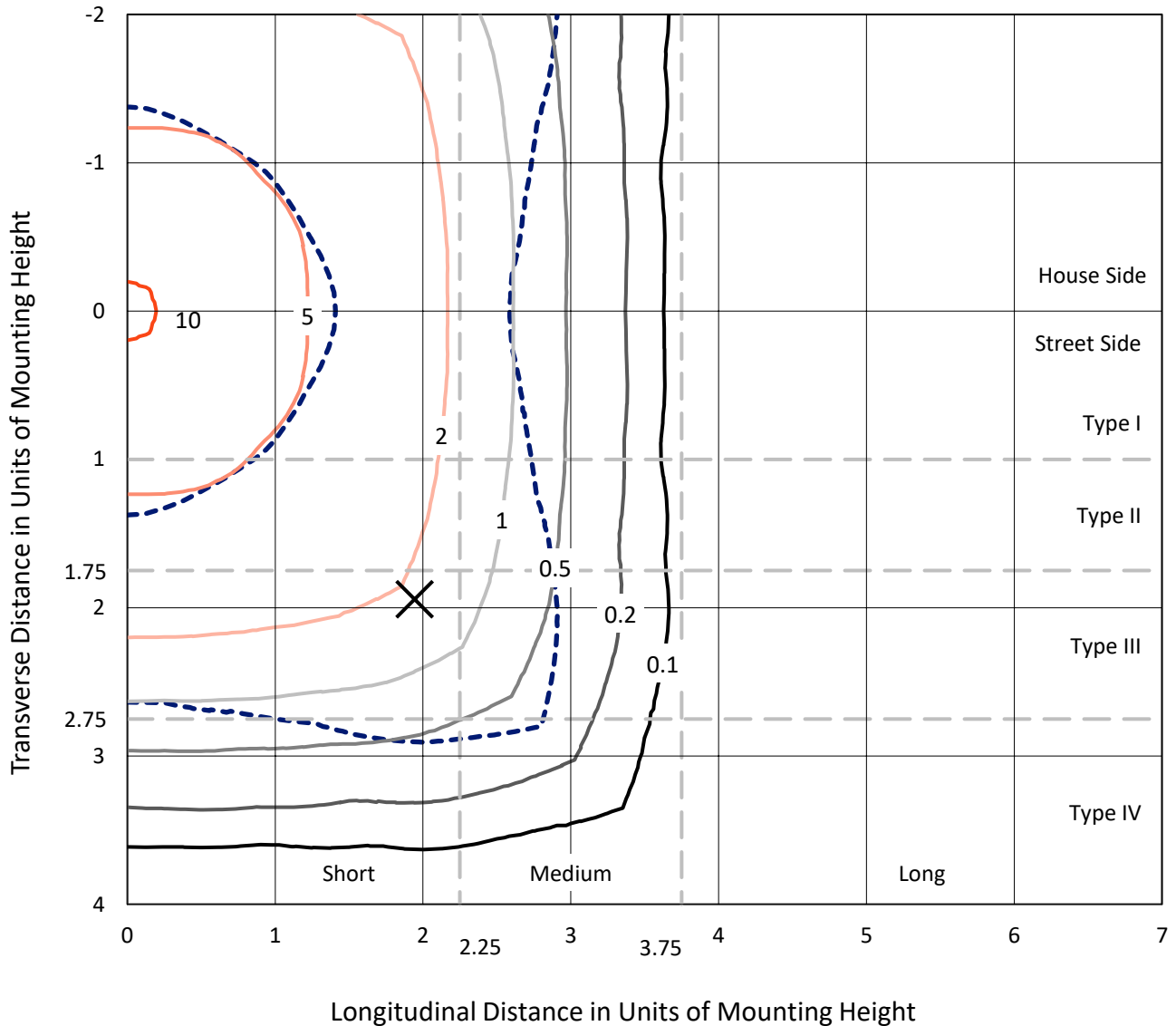
Input Watts (W): 481
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

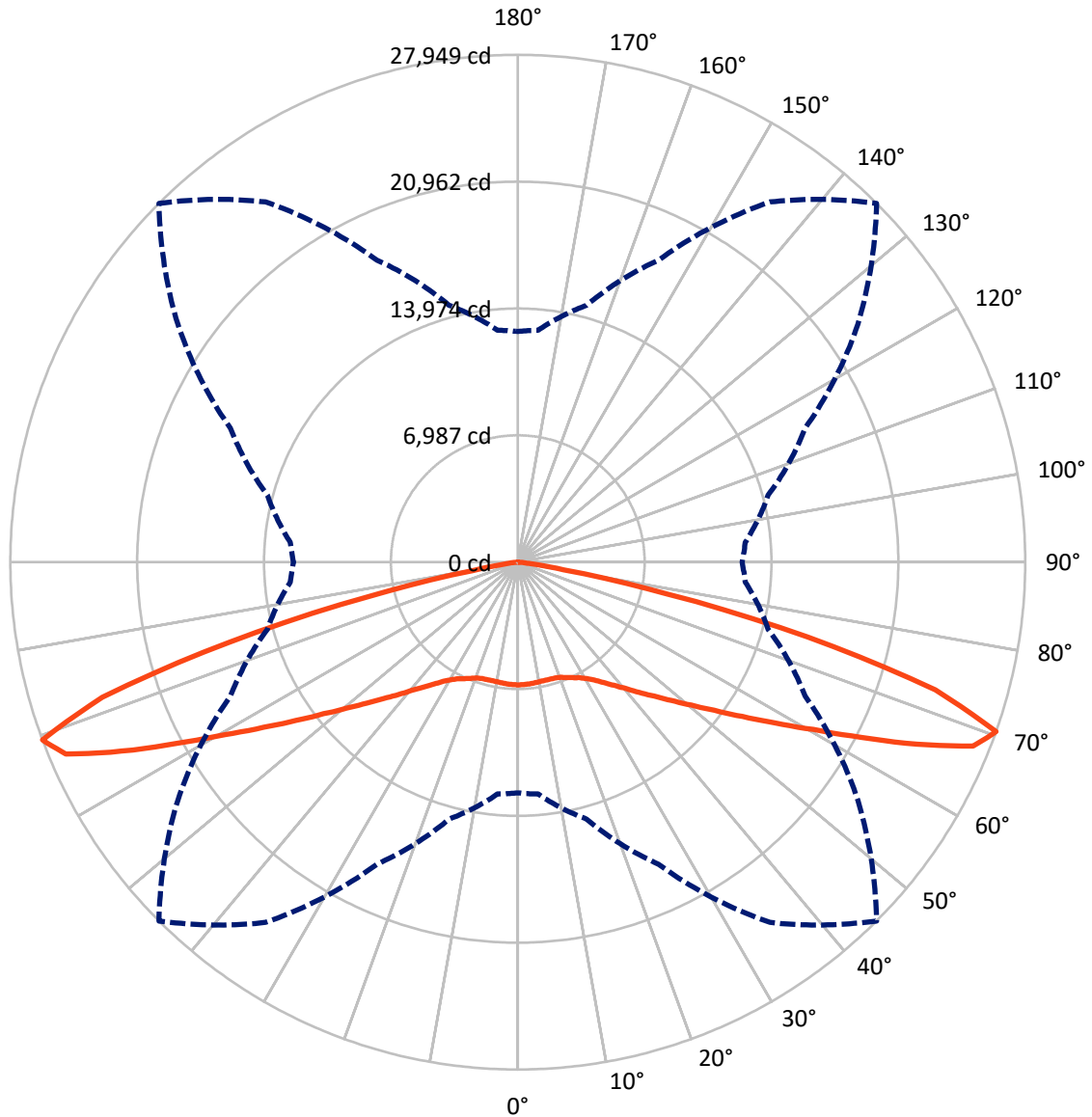
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	30439.0	0.0	30439.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	30439.0	0.0	30439.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	60878.0	0.0	60878.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	641.1	1.1
10°-20°	1881.2	3.1
20°-30°	3217.3	5.3
30°-40°	5106.6	8.4
40°-50°	8238.3	13.5
50°-60°	13403.9	22.0
60°-70°	19430.8	31.9
70°-80°	8618.8	14.2
80°-90°	339.9	0.6
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°	60878.0	100.0
0°-180°	60878.0	100.0

Coefficient of Utilization



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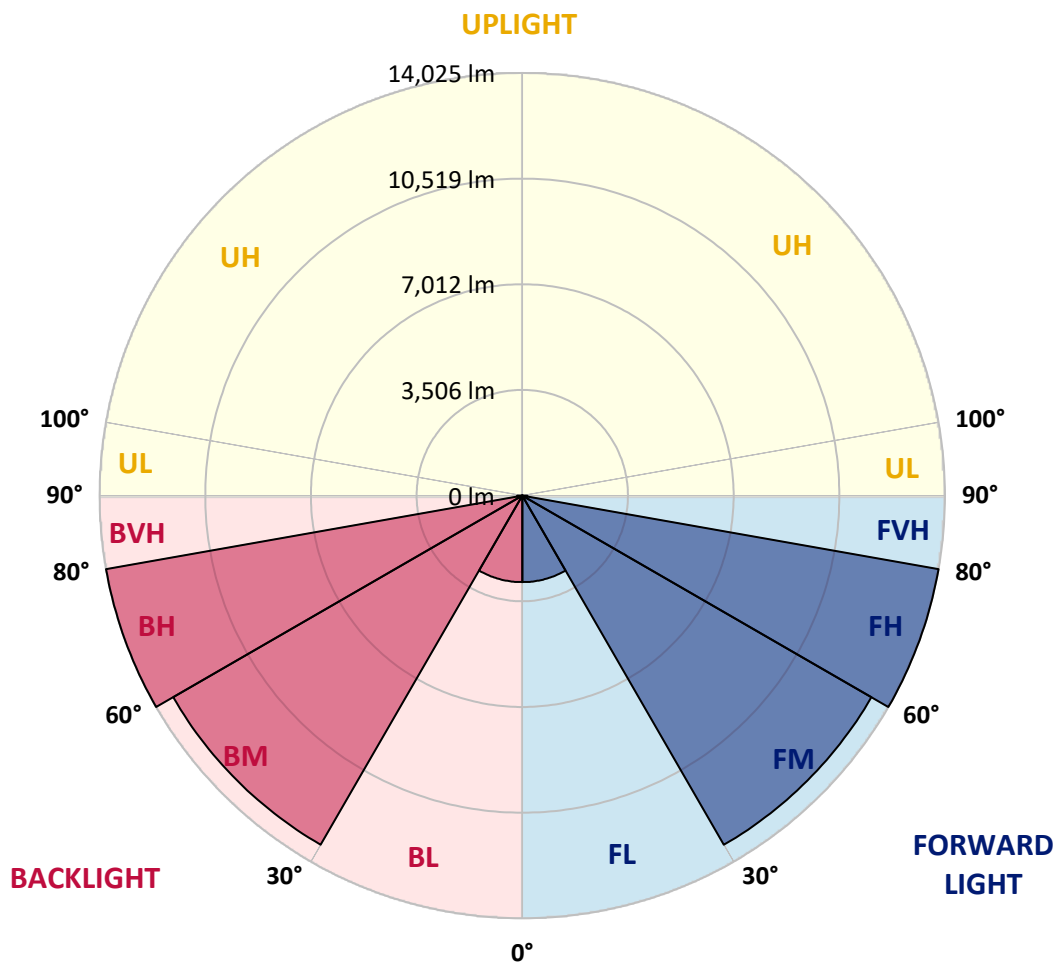
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2869.8	4.7			
FM (30°-60°)	13374.4	22.0			
FH (60°-80°)	14024.8	23.0			G5
FVH (80°-90°)	170.0	0.3			G2/225
BL (0°-30°)	2869.8	4.7	B4/5000		
BM (30°-60°)	13374.4	22.0	B5		
BH (60°-80°)	14024.8	23.0	B5		G5
BVH (80°-90°)	170.0	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6760.2	6760.2	6760.2	6760.2	6760.2	6760.2	6760.2	6760.2	6760.2	6760.2	6760.2
2.5°	6760.2	6766.6	6757.0	6750.6	6747.4	6747.4	6744.2	6747.4	6766.6	6769.8	6760.2
5°	6741.0	6747.4	6744.2	6737.8	6734.5	6734.5	6731.3	6728.1	6744.2	6750.6	6747.4
7.5°	6715.3	6718.5	6715.3	6712.1	6715.3	6712.1	6702.5	6696.0	6708.9	6708.9	6705.7
10°	6670.4	6676.8	6673.6	6676.8	6683.2	6683.2	6670.4	6657.5	6660.8	6654.3	6654.3
12.5°	6615.8	6625.5	6628.7	6641.5	6657.5	6676.8	6647.9	6619.0	6612.6	6609.4	6606.2
15°	6580.5	6590.2	6603.0	6615.8	6644.7	6686.4	6644.7	6599.8	6587.0	6574.1	6567.7
17.5°	6570.9	6583.7	6603.0	6622.3	6660.8	6702.5	6667.2	6622.3	6590.2	6570.9	6564.5
20°	6596.6	6606.2	6635.1	6670.4	6724.9	6766.6	6731.3	6683.2	6635.1	6606.2	6596.6
22.5°	6647.9	6664.0	6699.3	6763.4	6840.4	6901.4	6853.3	6773.0	6696.0	6657.5	6644.7
25°	6760.2	6773.0	6814.8	6901.4	6991.2	7049.0	6997.6	6904.6	6798.7	6747.4	6731.3
27.5°	6930.3	6949.5	6994.4	7097.1	7170.9	7203.0	7167.7	7103.5	7026.5	6972.0	6959.1
30°	7170.9	7193.4	7260.7	7369.8	7417.9	7437.2	7421.2	7379.4	7324.9	7267.2	7254.3
32.5°	7495.0	7507.8	7584.8	7687.5	7732.4	7738.8	7719.5	7700.3	7610.5	7514.2	7507.8
35°	7857.5	7880.0	7973.0	8094.9	8136.6	8139.9	8101.3	8072.5	7966.6	7889.6	7889.6
37.5°	8338.8	8348.4	8438.2	8576.2	8621.1	8608.3	8589.0	8563.4	8451.1	8351.6	8354.8
40°	8903.5	8922.7	8999.7	9160.1	9160.1	9144.1	9156.9	9137.7	9025.4	8929.1	8932.3
42.5°	9574.0	9583.7	9676.7	9846.7	9833.9	9801.8	9814.7	9789.0	9718.4	9609.3	9570.8
45°	10289.5	10328.0	10488.4	10652.1	10626.4	10523.7	10575.1	10568.7	10504.5	10340.9	10350.5
47.5°	11152.6	11216.8	11370.8	11566.5	11537.6	11377.2	11434.9	11473.4	11383.6	11203.9	11171.8
50°	12124.8	12166.5	12394.3	12577.1	12551.5	12381.4	12513.0	12519.4	12294.8	12041.3	12041.3
52.5°	13161.1	13202.8	13510.8	13796.4	13812.4	13565.3	13671.2	13664.8	13299.0	12965.4	12901.2
55°	14322.5	14341.8	14739.6	15160.0	15249.8	15009.2	15022.0	14893.6	14418.8	14030.6	13995.3
57.5°	15522.5	15593.1	16032.7	16578.1	16844.4	16696.8	16629.4	16286.1	15827.3	15381.3	15358.9
60°	16850.8	16854.0	17425.1	18070.0	18609.0	18708.5	18432.6	17973.8	17380.2	16789.8	16764.2
62.5°	17771.6	17909.6	18631.5	19722.4	20688.1	21246.4	20518.1	19555.5	18387.7	17434.7	17338.5
65°	17960.9	18054.0	19154.5	21002.5	22975.7	24178.9	22494.5	20447.5	18455.0	17184.5	17120.3
67.5°	16430.5	16530.0	18012.3	20848.5	24580.0	27047.3	23777.9	20017.6	17312.8	15740.7	15615.6
70°	12708.7	12821.0	14653.0	18352.4	24223.8	27948.9	22863.5	17460.4	14277.6	12580.4	12352.6
72.5°	6757.0	7170.9	8736.6	12596.4	19661.4	24063.4	18747.0	12740.8	9208.3	7527.0	7225.4
75°	2467.3	2518.6	3391.3	5585.9	11438.1	16501.1	11877.7	6076.8	3494.0	2698.3	2560.3
77.5°	1020.3	1017.1	1116.5	1687.6	4154.9	8451.1	4636.2	1783.9	1113.3	1029.9	1017.1
80°	603.2	603.2	664.2	702.7	1094.1	2550.7	1222.4	795.7	667.4	609.6	619.2
82.5°	269.5	285.6	420.3	442.8	529.4	699.4	590.4	506.9	436.3	301.6	272.7
85°	147.6	128.3	221.4	231.0	253.5	259.9	279.1	275.9	253.5	147.6	150.8
87.5°	28.9	35.3	64.2	48.1	54.5	48.1	64.2	89.8	93.0	51.3	41.7
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)