

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: P457179

Luminaire Tested: **GALN-SA8C-730-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457179
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-SA8C-730-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 54226 lumens
Efficiency: N/A
Efficacy: 126.4 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

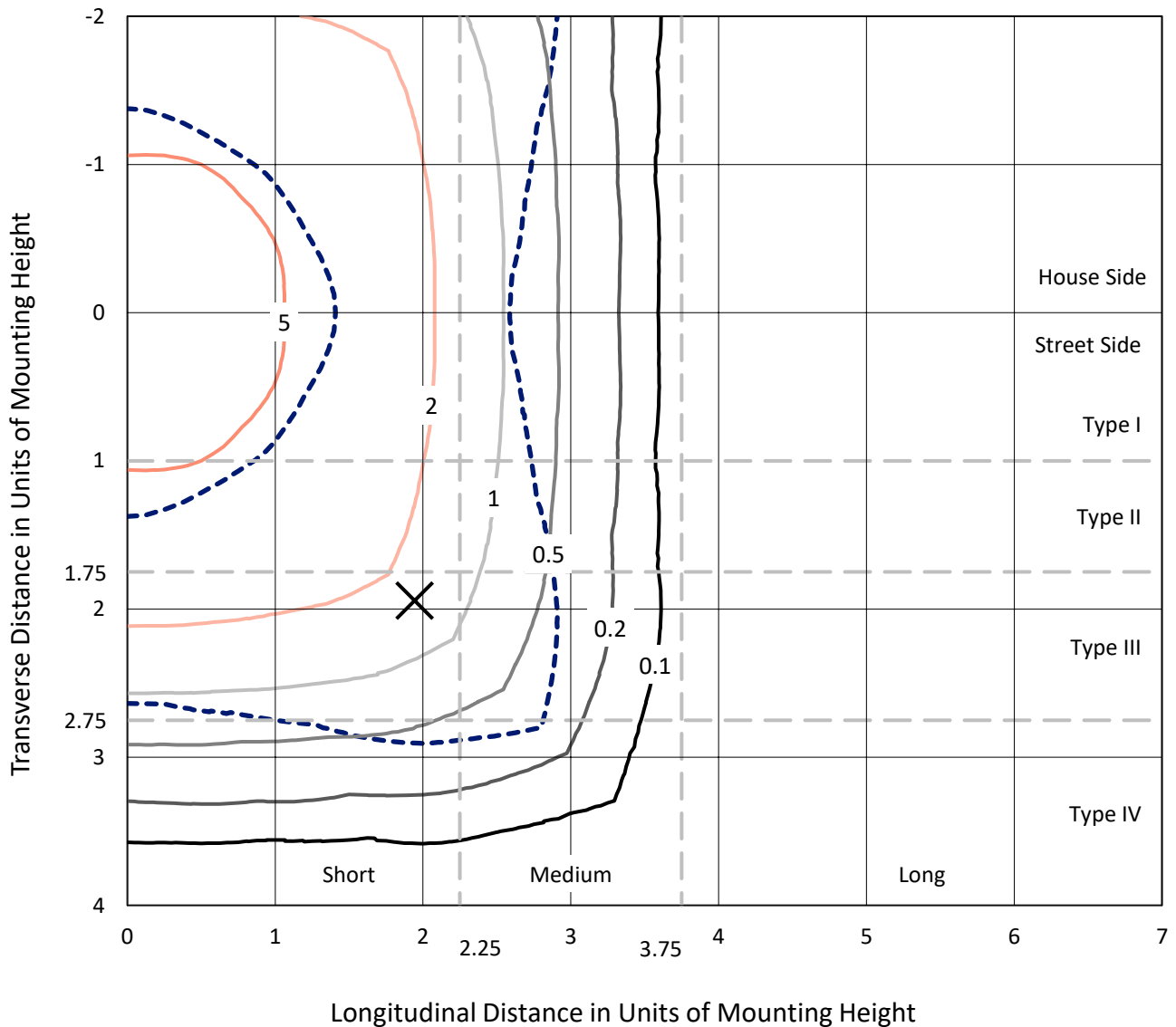
Input Watts (W): 429
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

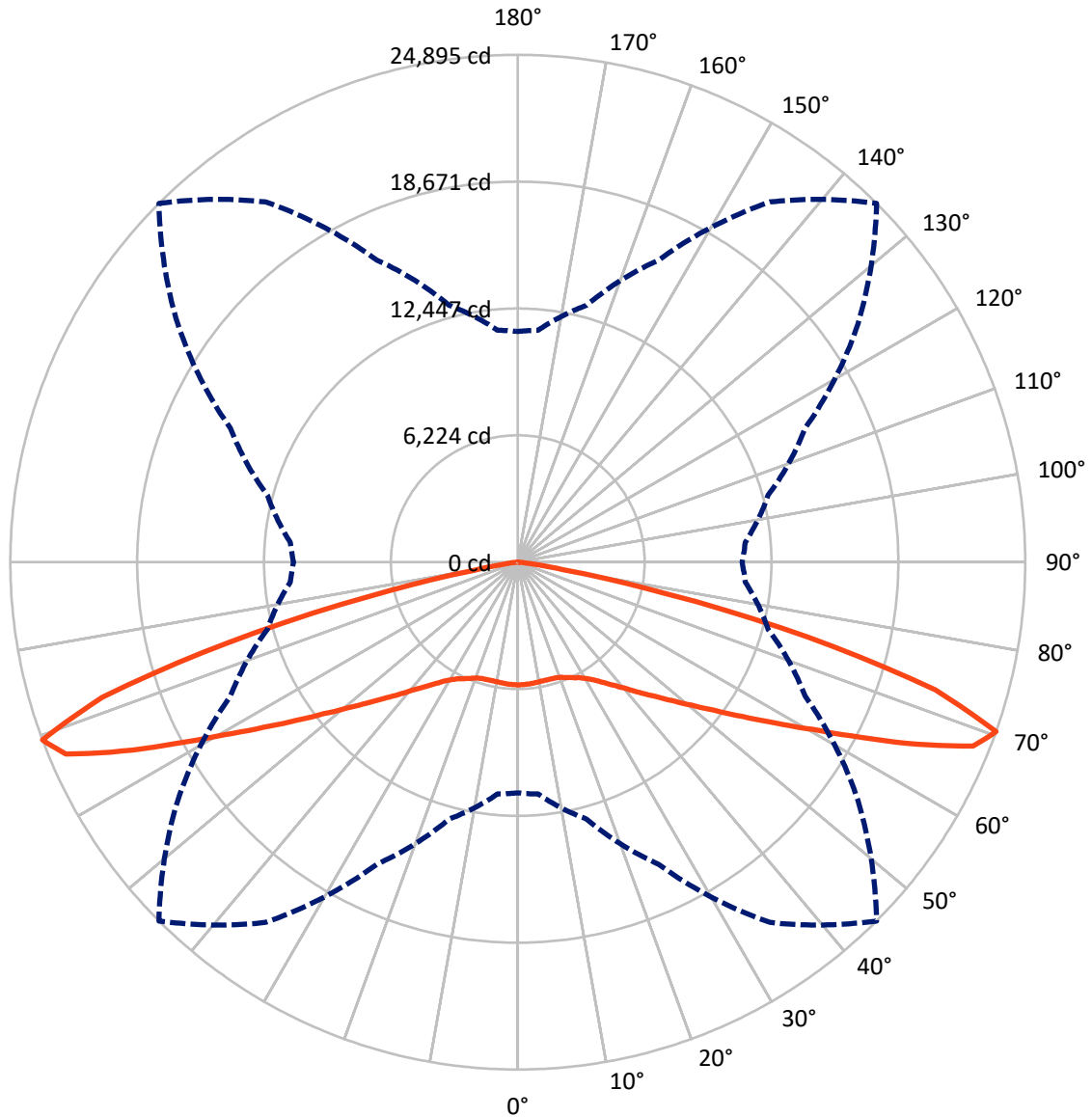
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 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	27113.0	0.0	27113.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	27113.0	0.0	27113.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	54226.0	0.0	54226.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	571.0	1.1
10°-20°	1675.6	3.1
20°-30°	2865.8	5.3
30°-40°	4548.6	8.4
40°-50°	7338.1	13.5
50°-60°	11939.3	22.0
60°-70°	17307.7	31.9
70°-80°	7677.1	14.2
80°-90°	302.8	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°	54226.0	100.0
0°-180°	54226.0	100.0



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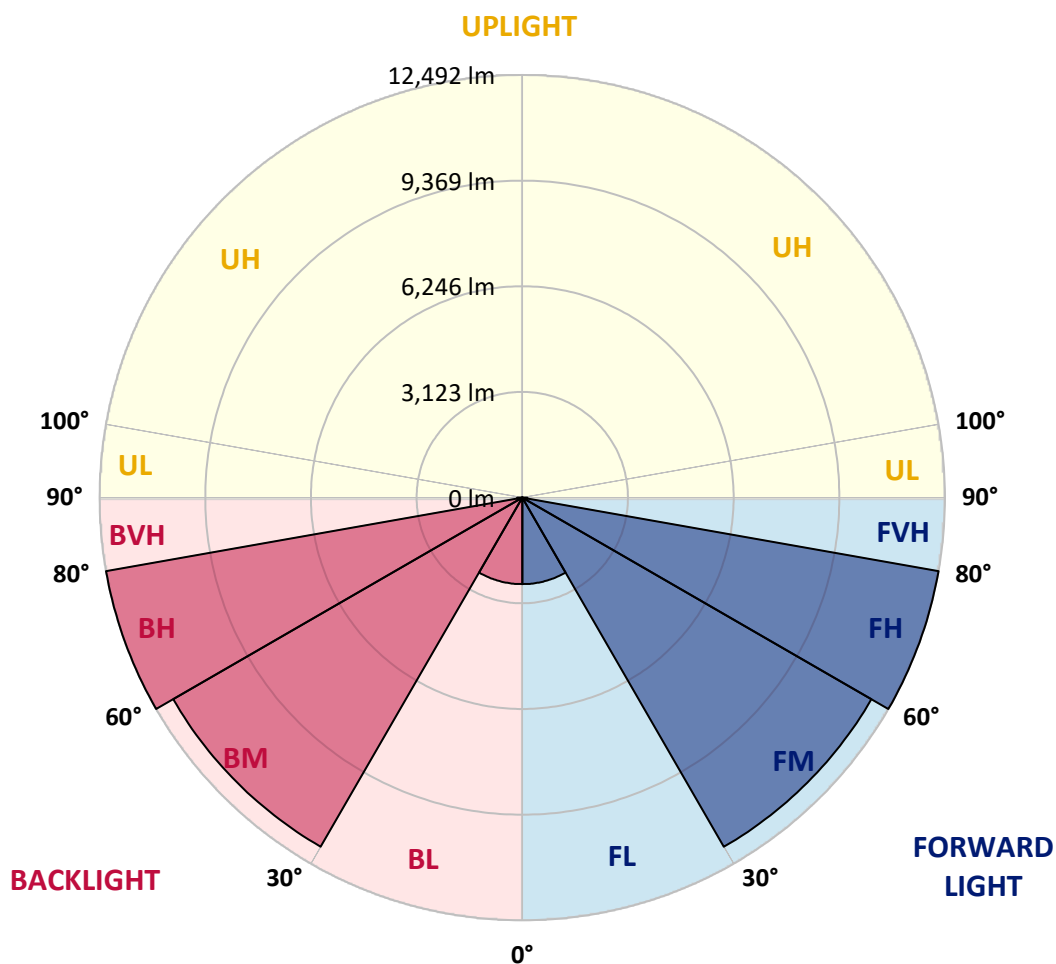
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2556.2	4.7			
FM (30°-60°)	11913.0	22.0			
FH (60°-80°)	12492.4	23.0			G5
FVH (80°-90°)	151.4	0.3			G2/225
BL (0°-30°)	2556.2	4.7	B4/5000		
BM (30°-60°)	11913.0	22.0	B5		
BH (60°-80°)	12492.4	23.0	B5		G5
BVH (80°-90°)	151.4	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°	6021.5	6021.5	6021.5	6021.5	6021.5	6021.5	6021.5	6021.5	6021.5	6021.5	6021.5
2.5°	6021.5	6027.3	6018.7	6013.0	6010.1	6010.1	6007.3	6010.1	6027.3	6030.1	6021.5
5°	6004.4	6010.1	6007.3	6001.5	5998.7	5998.7	5995.8	5993.0	6007.3	6013.0	6010.1
7.5°	5981.5	5984.4	5981.5	5978.7	5981.5	5978.7	5970.1	5964.4	5975.8	5975.8	5973.0
10°	5941.5	5947.2	5944.4	5947.2	5953.0	5953.0	5941.5	5930.1	5932.9	5927.2	5927.2
12.5°	5892.9	5901.5	5904.4	5915.8	5930.1	5947.2	5921.5	5895.8	5890.1	5887.2	5884.4
15°	5861.5	5870.1	5881.5	5892.9	5918.7	5955.8	5918.7	5878.6	5867.2	5855.8	5850.1
17.5°	5852.9	5864.4	5881.5	5898.7	5932.9	5970.1	5938.7	5898.7	5870.1	5852.9	5847.2
20°	5875.8	5884.4	5910.1	5941.5	5990.1	6027.3	5995.8	5953.0	5910.1	5884.4	5875.8
22.5°	5921.5	5935.8	5967.2	6024.4	6093.0	6147.3	6104.4	6033.0	5964.4	5930.1	5918.7
25°	6021.5	6033.0	6070.1	6147.3	6227.3	6278.8	6233.0	6150.1	6055.8	6010.1	5995.8
27.5°	6173.0	6190.2	6230.2	6321.6	6387.3	6415.9	6384.5	6327.3	6258.7	6210.2	6198.7
30°	6387.3	6407.4	6467.4	6564.5	6607.4	6624.6	6610.3	6573.1	6524.5	6473.1	6461.7
32.5°	6676.0	6687.4	6756.0	6847.5	6887.5	6893.2	6876.0	6858.9	6778.9	6693.1	6687.4
35°	6998.9	7018.9	7101.8	7210.4	7247.6	7250.4	7216.1	7190.4	7096.1	7027.5	7027.5
37.5°	7427.6	7436.2	7516.2	7639.1	7679.1	7667.7	7650.5	7627.7	7527.6	7439.0	7441.9
40°	7930.6	7947.7	8016.3	8159.2	8159.2	8144.9	8156.4	8139.2	8039.2	7953.5	7956.3
42.5°	8527.9	8536.5	8619.3	8770.8	8759.4	8730.8	8742.2	8719.4	8656.5	8559.3	8525.0
45°	9165.2	9199.5	9342.4	9488.1	9465.3	9373.8	9419.6	9413.8	9356.7	9210.9	9219.5
47.5°	9934.0	9991.1	10128.3	10302.6	10276.9	10134.0	10185.5	10219.8	10139.7	9979.7	9951.1
50°	10799.9	10837.1	11040.0	11202.9	11180.0	11028.5	11145.7	11151.4	10951.4	10725.6	10725.6
52.5°	11723.0	11760.2	12034.5	12288.9	12303.2	12083.1	12177.4	12171.7	11845.9	11548.7	11491.5
55°	12757.6	12774.7	13129.1	13503.5	13583.5	13369.1	13380.6	13266.3	12843.3	12497.5	12466.0
57.5°	13826.4	13889.3	14280.8	14766.6	15003.8	14872.4	14812.4	14506.6	14097.9	13700.7	13680.6
60°	15009.6	15012.4	15521.1	16095.5	16575.7	16664.3	16418.5	16009.8	15481.1	14955.3	14932.4
62.5°	15829.8	15952.7	16595.7	17567.4	18427.6	18924.8	18276.1	17418.7	16378.5	15529.7	15444.0
65°	15998.4	16081.3	17061.5	18707.6	20465.2	21536.9	20036.6	18213.2	16438.5	15306.8	15249.6
67.5°	14635.2	14723.8	16044.1	18570.5	21894.2	24091.9	21179.7	17830.3	15421.1	14020.7	13909.3
70°	11320.0	11420.1	13051.9	16347.0	21577.0	24894.9	20365.2	15552.6	12717.5	11205.7	11002.8
72.5°	6018.7	6387.3	7782.0	11220.0	17513.1	21434.1	16698.6	11348.6	8202.1	6704.6	6435.9
75°	2197.7	2243.4	3020.8	4975.6	10188.3	14698.0	10579.9	5412.8	3112.2	2403.5	2280.6
77.5°	908.8	905.9	994.5	1503.2	3700.9	7527.6	4129.6	1589.0	991.7	917.4	905.9
80°	537.3	537.3	591.6	625.9	974.5	2272.0	1088.9	708.8	594.4	543.0	551.6
82.5°	240.1	254.4	374.4	394.4	471.5	623.0	525.8	451.5	388.7	268.6	242.9
85°	131.5	114.3	197.2	205.8	225.8	231.5	248.6	245.8	225.8	131.5	134.3
87.5°	25.7	31.4	57.2	42.9	48.6	42.9	57.2	80.0	82.9	45.7	37.2
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)