

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: P456252

Luminaire Tested: **GALN-SA7C-730-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456252
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-730-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46541 lumens
Efficiency: N/A
Efficacy: 123.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

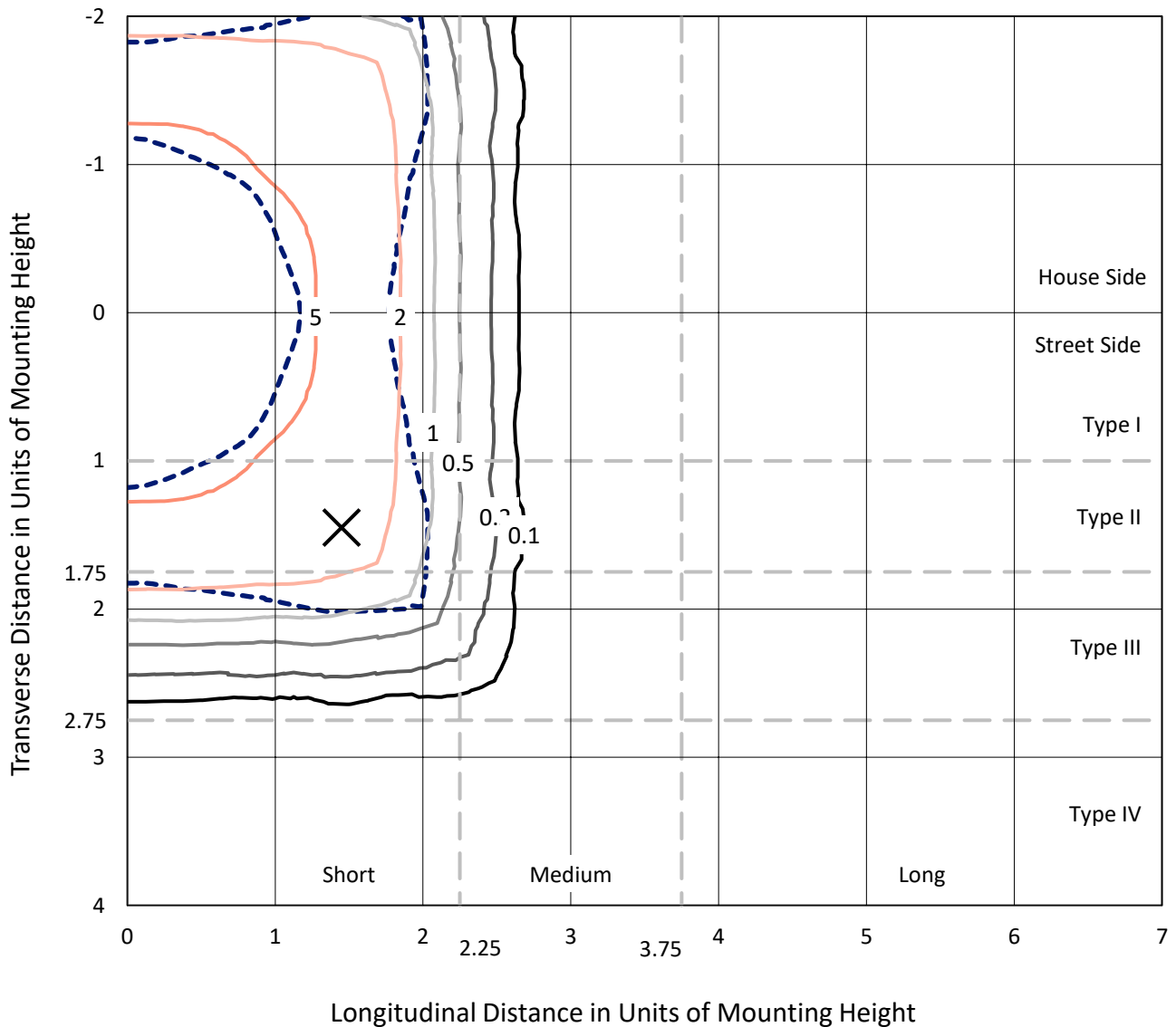
Input Watts (W): 377
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P456252
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Iso-Footcandle Lines of Horizontal Illumination

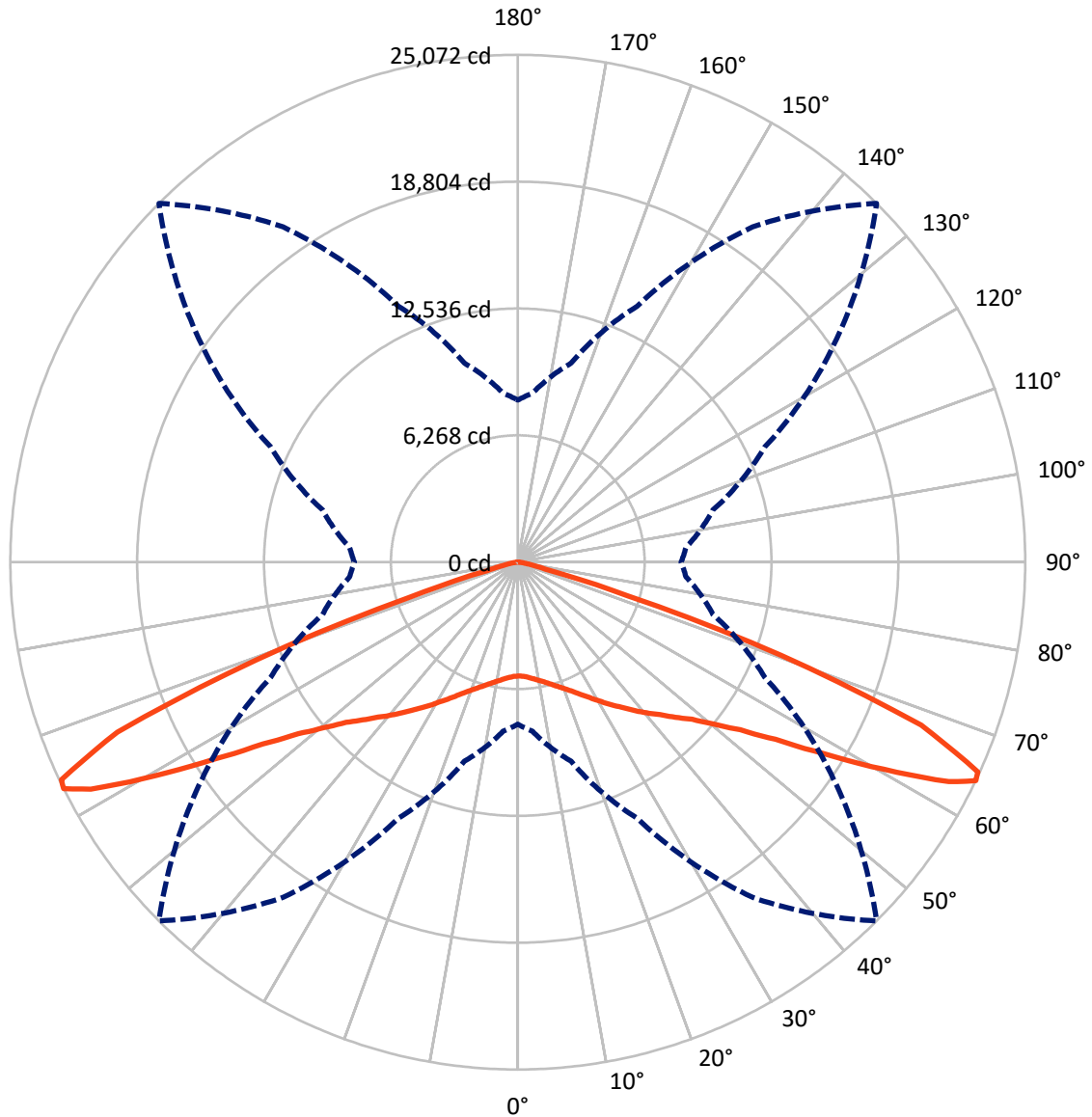
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	23270.5	0.0	23270.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	23270.5	0.0	23270.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	46541.0	0.0	46541.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	552.6	1.2
10°-20°	1782.6	3.8
20°-30°	3368.7	7.2
30°-40°	5578.9	12.0
40°-50°	8709.5	18.7
50°-60°	13464.7	28.9
60°-70°	11610.5	24.9
70°-80°	1315.8	2.8
80°-90°	157.6	0.3
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°	46541.0	100.0
0°-180°	46541.0	100.0

Coefficient of Utilization



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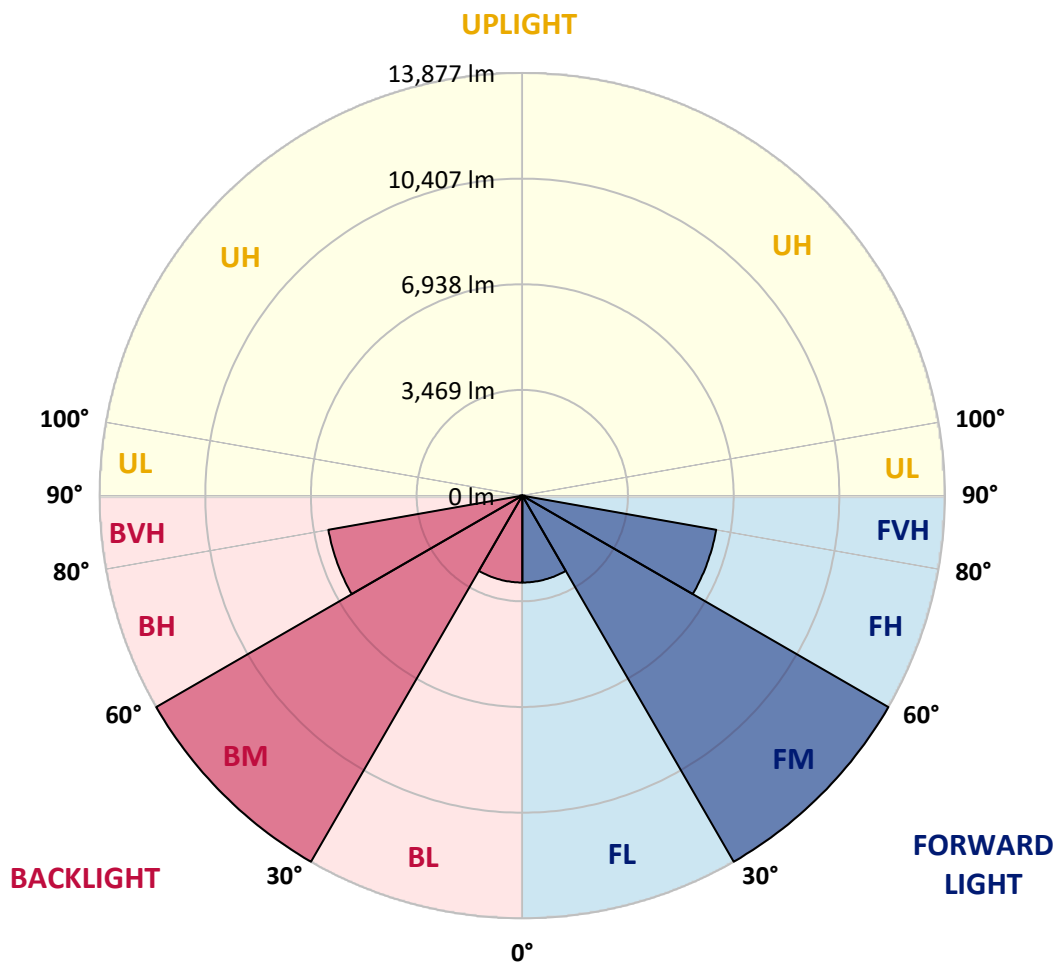
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2852.0	6.1			
FM (30°-60°)	13876.6	29.8			
FH (60°-80°)	6463.1	13.9			G3/7500
FVH (80°-90°)	78.8	0.2			G1/100
BL (0°-30°)	2852.0	6.1	B4/5000		
BM (30°-60°)	13876.6	29.8	B5		
BH (60°-80°)	6463.1	13.9	B5		G3/7500
BVH (80°-90°)	78.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5625.3	5625.3	5625.3	5625.3	5625.3	5625.3	5625.3	5625.3	5625.3	5625.3	5625.3
2.5°	5647.4	5659.8	5649.9	5647.4	5645.0	5645.0	5645.0	5647.4	5657.3	5664.7	5659.8
5°	5718.9	5728.8	5723.9	5721.4	5718.9	5718.9	5716.5	5714.0	5721.4	5721.4	5718.9
7.5°	5807.7	5820.0	5815.1	5820.0	5822.5	5824.9	5812.6	5802.7	5800.3	5807.7	5802.7
10°	5928.5	5938.3	5940.8	5943.3	5948.2	5945.7	5930.9	5913.7	5911.2	5908.7	5906.3
12.5°	6064.0	6071.4	6073.9	6083.8	6091.2	6093.6	6076.4	6061.6	6036.9	6041.9	6032.0
15°	6216.9	6231.7	6229.2	6244.0	6263.7	6268.6	6251.4	6226.7	6204.6	6192.2	6184.8
17.5°	6404.2	6414.1	6409.2	6423.9	6448.6	6460.9	6446.1	6414.1	6391.9	6364.8	6350.0
20°	6626.1	6643.3	6648.3	6648.3	6670.4	6682.8	6660.6	6650.7	6616.2	6596.5	6584.2
22.5°	6877.5	6884.9	6899.7	6914.5	6936.7	6931.7	6924.3	6909.6	6877.5	6860.3	6840.5
25°	7161.0	7168.4	7205.4	7237.4	7244.8	7239.9	7230.0	7222.6	7193.0	7153.6	7138.8
27.5°	7491.3	7506.1	7555.4	7585.0	7585.0	7587.4	7567.7	7592.4	7528.3	7481.5	7476.5
30°	7905.4	7915.3	7957.2	7986.8	7972.0	7959.7	7954.7	7979.4	7910.4	7826.6	7806.8
32.5°	8314.6	8349.2	8386.1	8450.2	8398.5	8376.3	8371.3	8388.6	8309.7	8216.0	8188.9
35°	8753.4	8778.1	8847.1	8901.3	8854.5	8802.7	8824.9	8879.1	8785.5	8659.7	8654.8
37.5°	9239.0	9261.2	9350.0	9406.7	9372.2	9283.4	9320.4	9384.5	9290.8	9135.5	9103.5
40°	9744.4	9791.2	9902.1	9961.3	9904.6	9786.3	9855.3	9924.3	9840.5	9660.6	9589.1
42.5°	10311.3	10385.3	10545.5	10575.1	10466.6	10306.4	10427.2	10538.1	10479.0	10271.9	10244.8
45°	10974.4	11018.8	11216.0	11280.1	11129.7	10930.1	11080.4	11282.6	11238.2	10999.1	10947.3
47.5°	11716.4	11758.3	11962.9	12059.1	11869.3	11600.6	11871.7	12135.5	12108.4	11852.0	11827.3
50°	12594.0	12603.8	12887.3	12995.8	12806.0	12574.3	12815.8	13143.7	13035.2	12707.4	12702.4
52.5°	13555.4	13567.7	13925.1	14134.6	14028.6	13767.3	14053.3	14253.0	13976.9	13548.0	13515.9
55°	14388.5	14450.2	14938.3	15495.4	15640.8	15451.0	15537.3	15443.6	14763.2	14161.8	14068.1
57.5°	14728.7	14849.5	15591.5	16631.7	17578.3	17859.3	17193.8	16301.4	15076.3	14225.8	14134.6
60°	13898.0	14028.6	15179.8	17154.3	19570.1	20790.3	18919.3	16446.9	14363.9	13168.3	13025.4
62.5°	11129.7	11166.7	12860.2	15924.3	20731.1	23891.3	19646.5	15206.9	12290.8	10666.3	10609.6
64°	8009.0	8388.6	10183.2	13962.1	20223.3	25072.1	19227.5	13469.1	9983.5	8339.3	8073.1
65°	5990.1	6093.6	8208.6	11923.5	19328.5	24983.4	18414.0	11807.6	8267.8	6382.0	6086.2
67.5°	2262.9	2275.2	3029.6	5943.3	13760.0	21495.3	14053.3	6423.9	3483.1	2519.3	2428.1
70°	939.2	956.4	1111.7	1999.2	5913.7	13801.9	6776.4	2317.2	1274.4	1032.9	1018.1
72.5°	687.8	697.6	744.4	887.4	1819.2	5667.2	2228.4	983.6	746.9	668.0	660.6
75°	539.8	544.8	579.3	653.2	848.0	1570.2	926.9	675.4	569.4	512.7	507.8
77.5°	411.7	424.0	448.6	497.9	569.4	744.4	613.8	505.3	438.8	391.9	384.5
80°	283.5	298.3	345.1	364.8	382.1	483.2	419.1	382.1	342.6	285.9	268.7
82.5°	175.0	184.9	231.7	249.0	241.6	271.2	268.7	273.6	244.0	177.5	165.2
85°	91.2	96.1	125.7	130.6	120.8	110.9	138.0	160.2	150.4	101.1	98.6
87.5°	19.7	22.2	27.1	24.7	27.1	27.1	34.5	51.8	54.2	34.5	32.0
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)