

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: P534020

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534020
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-730-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51233 lumens
Efficiency: N/A
Efficacy: 106.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

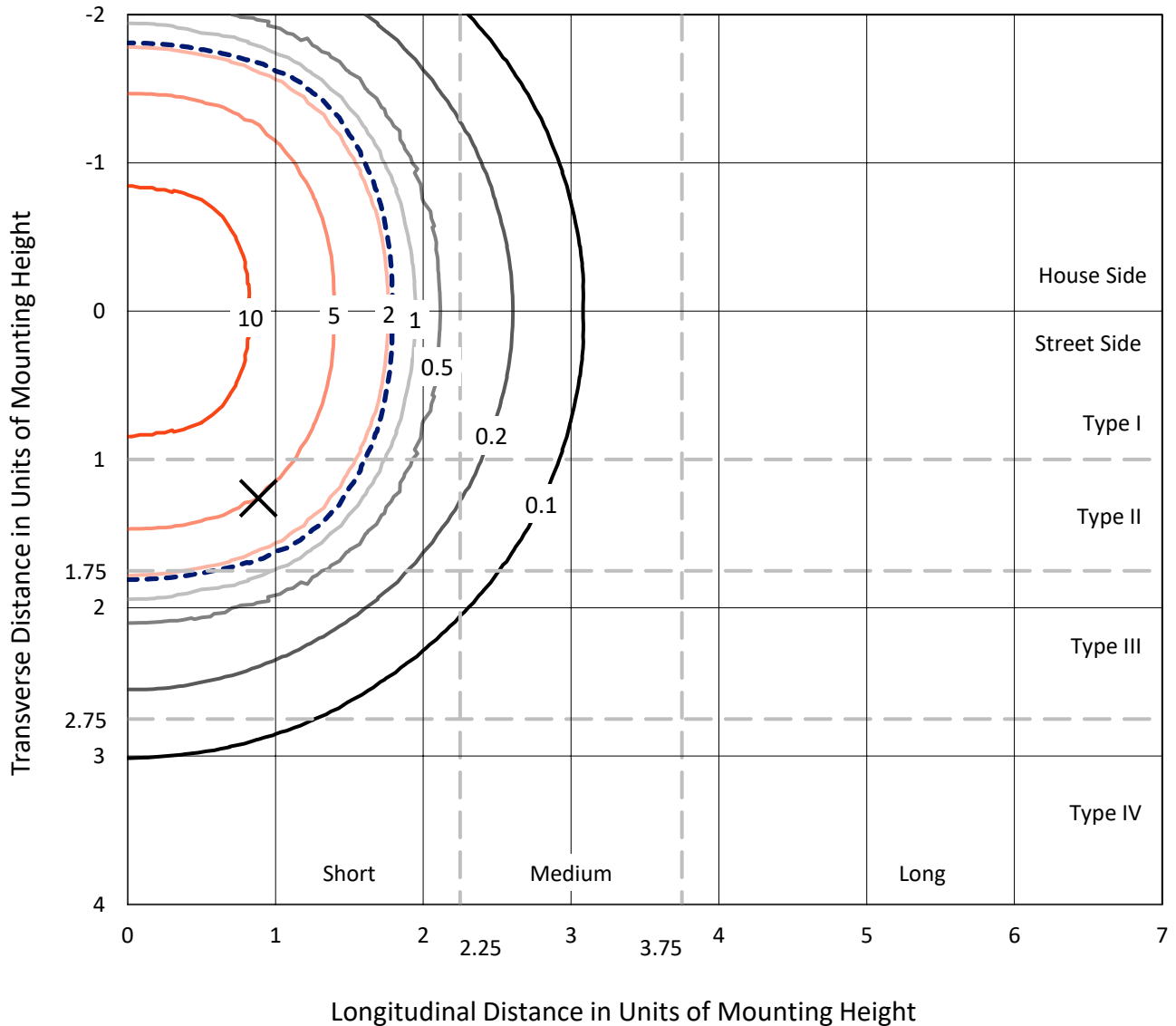
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

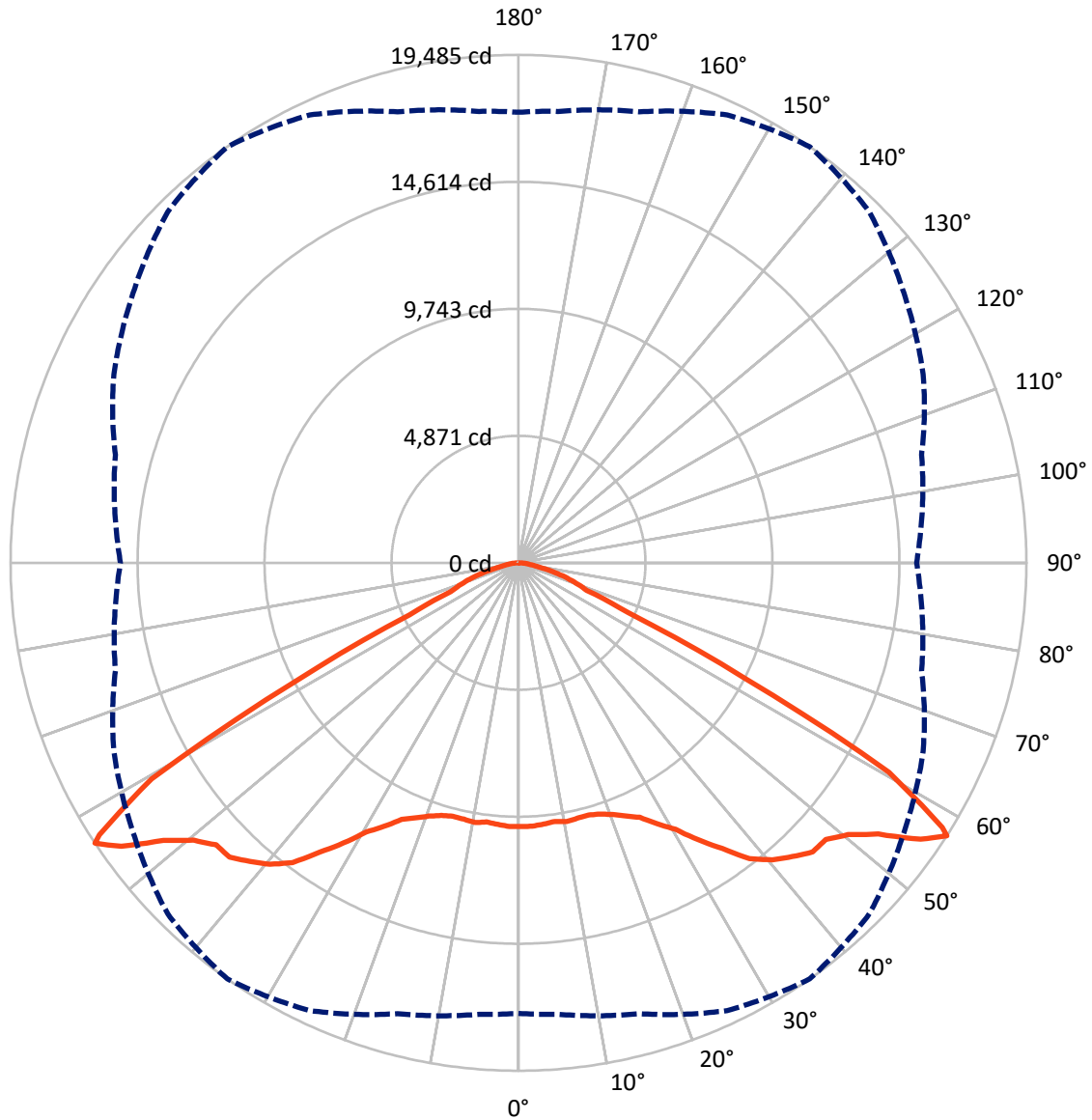
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	25616.5	0.0	25616.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	25616.5	0.0	25616.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	51233.0	0.0	51233.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	959.2	1.9
10°-20°	2841.0	5.5
20°-30°	4961.7	9.7
30°-40°	8130.0	15.9
40°-50°	11920.5	23.3
50°-60°	15014.8	29.3
60°-70°	5646.9	11.0
70°-80°	1501.5	2.9
80°-90°	257.4	0.5
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°	51233.0	100.0
0°-180°	51233.0	100.0

Coefficient of Utilization



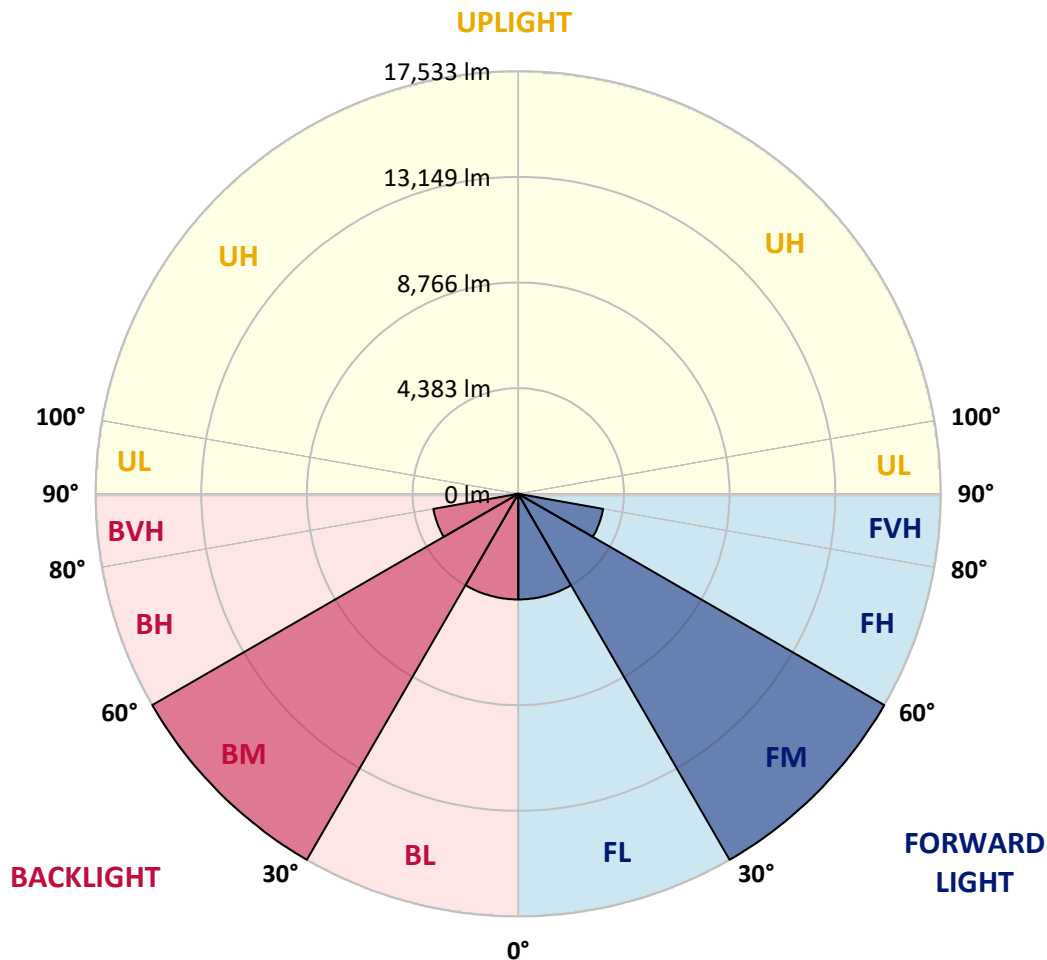
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4381.0	8.6			
FM (30°-60°)	17532.6	34.2			
FH (60°-80°)	3574.2	7.0			G2/5000
FVH (80°-90°)	128.7	0.3			G2/225
BL (0°-30°)	4381.0	8.6	B4/5000		
BM (30°-60°)	17532.6	34.2	B5		
BH (60°-80°)	3574.2	7.0	B4/5000		G2/5000
BVH (80°-90°)	128.7	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-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	10118.1	10118.1	10118.1	10118.1	10118.1	10118.1	10118.1	10118.1	10118.1	10118.1	10118.1
2.5°	10067.6	10168.6	10124.5	10099.2	10118.1	10086.6	10036.1	10092.9	10080.3	10029.8	10010.8
5°	10042.4	10118.1	10067.6	10118.1	10067.6	10156.0	10130.8	10036.1	10149.7	10042.4	10080.3
7.5°	10023.5	10048.7	10061.3	10036.1	10017.1	10124.5	10067.6	10023.5	9960.3	9941.4	9973.0
10°	9979.3	10042.4	9947.7	10074.0	10099.2	10023.5	10023.5	9941.4	9890.9	9859.3	9966.7
12.5°	10092.9	9985.6	9973.0	10036.1	10055.0	10086.6	9998.2	9954.0	9859.3	9872.0	9853.0
15°	9960.3	10004.5	10010.8	10023.5	10042.4	10118.1	10036.1	9941.4	9903.5	9771.0	9783.6
17.5°	10010.8	9966.7	10010.8	10156.0	10130.8	10187.6	10099.2	9954.0	9865.7	9789.9	9890.9
20°	10099.2	10080.3	10099.2	10275.9	10307.5	10358.0	10282.3	10149.7	9979.3	9890.9	9941.4
22.5°	10193.9	10181.3	10193.9	10364.3	10547.4	10610.5	10534.7	10225.4	10137.1	9973.0	9916.2
25°	10364.3	10376.9	10509.5	10698.8	10818.8	10938.7	10799.8	10578.9	10294.9	10193.9	10074.0
27.5°	10743.0	10774.6	10850.3	11128.1	11336.4	11443.7	11248.0	10945.0	10768.3	10560.0	10528.4
30°	11210.1	11210.1	11342.7	11582.5	11866.6	12030.7	11790.8	11431.0	11216.4	11102.8	11033.4
32.5°	11828.7	11759.3	11809.8	12232.7	12674.5	12813.4	12491.5	12049.6	11708.8	11557.3	11506.8
35°	12358.9	12403.1	12516.7	12971.2	13463.5	13785.4	13280.5	12706.1	12358.9	12220.0	12194.8
37.5°	13046.9	13122.7	13179.5	13804.3	14397.7	14517.6	14031.6	13570.8	13147.9	13034.3	12971.2
40°	14019.0	13968.5	13987.4	14448.2	14984.7	15060.4	14580.7	14252.5	13905.3	13835.9	13835.9
42.5°	14820.6	14763.8	14826.9	14997.3	15407.6	15350.8	15085.7	14845.8	14700.7	14624.9	14700.7
45°	15306.6	15294.0	15407.6	15533.8	15824.2	15634.8	15426.5	15464.4	15325.5	15199.3	15193.0
47.5°	15836.8	15754.8	15893.6	16083.0	15862.1	15773.7	15761.1	15843.1	15798.9	15578.0	15508.6
50°	16095.6	16064.0	16285.0	16505.9	16386.0	16184.0	16228.2	16360.7	15792.6	15496.0	15325.5
52.5°	16789.9	16796.2	17219.1	17339.1	17288.6	16991.9	17086.6	16726.8	16057.7	15641.1	15660.1
55°	17881.9	17837.7	18311.1	18664.6	18721.4	18342.7	17888.2	17383.3	16543.8	16120.9	15994.6
57°	17282.3	17383.3	17907.2	18954.9	19485.2	19037.0	18046.0	17124.5	16007.2	15496.0	15268.7
57.5°	16480.6	16644.8	17553.7	18607.8	19163.2	19125.4	17850.3	16644.8	15647.5	14852.1	14871.1
60°	12074.9	12106.4	12927.0	14599.7	16335.5	16373.3	14820.6	13223.6	12112.7	11248.0	11367.9
62.5°	6368.8	6514.0	6842.2	8186.7	9688.9	10055.0	9114.5	8294.0	7334.5	6678.1	6741.2
65°	3370.6	3351.7	3509.5	3888.2	4626.7	4816.1	4689.8	4039.7	3705.1	3597.8	3604.2
67.5°	2739.4	2771.0	2752.0	2771.0	2821.5	2903.5	2884.6	2909.8	2928.8	2960.3	2954.0
70°	2322.8	2322.8	2335.4	2341.8	2341.8	2379.6	2423.8	2505.9	2512.2	2543.7	2556.4
72.5°	1830.5	1817.9	1836.8	1881.0	1887.3	1918.8	1982.0	2032.5	2051.4	2051.4	2013.5
75°	1243.5	1256.1	1281.3	1319.2	1357.1	1413.9	1464.4	1495.9	1508.6	1489.6	1470.7
77.5°	700.6	713.3	732.2	789.0	833.2	883.7	940.5	972.0	1003.6	1009.9	972.0
80°	416.6	416.6	448.2	492.3	542.8	593.3	643.8	681.7	694.3	694.3	675.4
82.5°	252.5	258.8	284.0	328.2	372.4	404.0	448.2	479.7	505.0	498.6	486.0
85°	132.6	132.6	157.8	195.7	227.2	258.8	258.8	239.9	227.2	195.7	183.0
87.5°	44.2	37.9	50.5	50.5	44.2	50.5	50.5	56.8	56.8	56.8	56.8
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)