

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: P534306

Luminaire Tested: **GALN-SA9D-740-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534306
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-SA9D-740-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 1200mA 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: 61901 lumens
Efficiency: N/A
Efficacy: 112.1 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

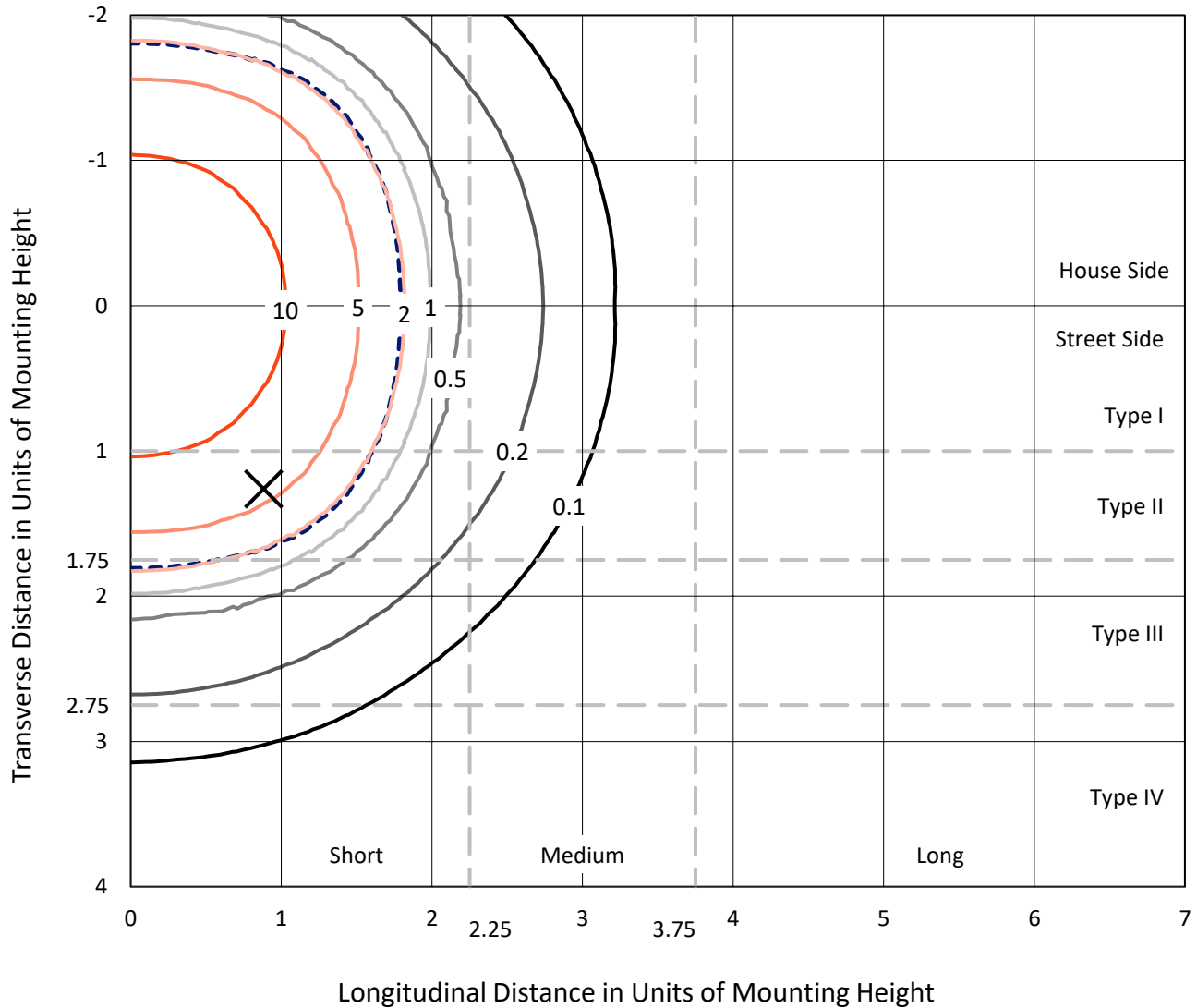
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

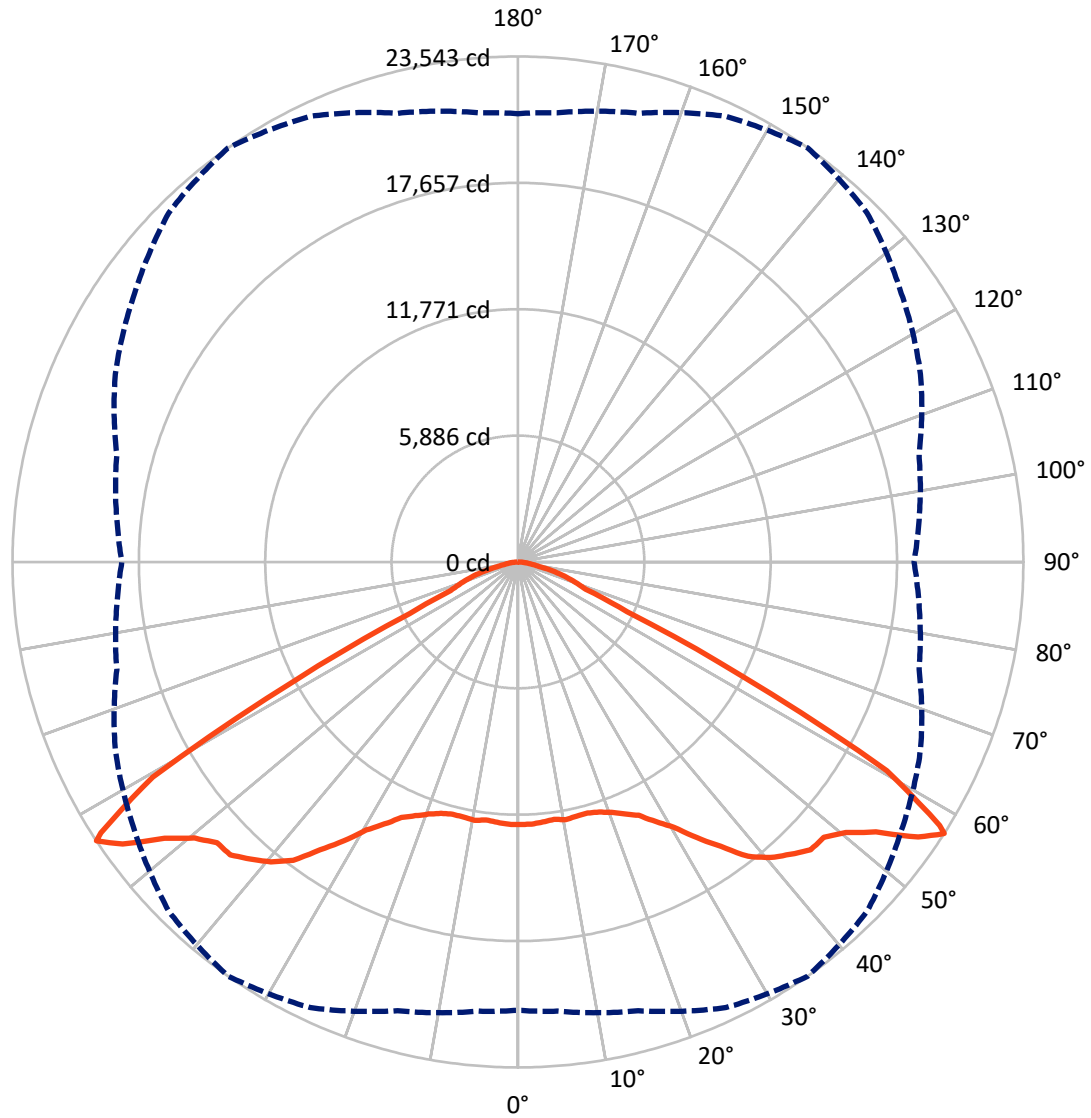
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.6 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	30950.5	0.0	30950.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	30950.5	0.0	30950.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	61901.0	0.0	61901.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1159.0	1.9
10°-20°	3432.5	5.5
20°-30°	5994.9	9.7
30°-40°	9822.8	15.9
40°-50°	14402.6	23.3
50°-60°	18141.2	29.3
60°-70°	6822.7	11.0
70°-80°	1814.1	2.9
80°-90°	311.1	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°	61901.0	100.0
0°-180°	61901.0	100.0

Coefficient of Utilization



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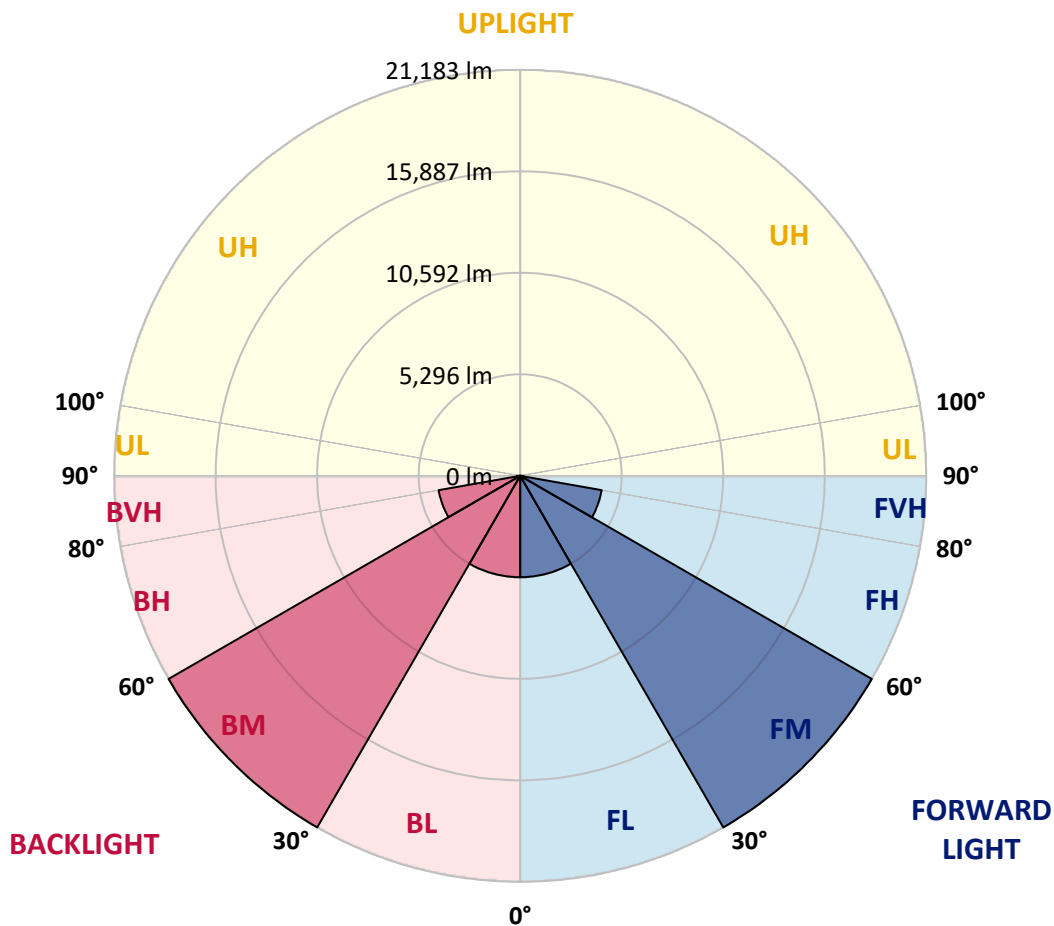
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5293.2	8.6			
FM (30°-60°)	21183.3	34.2			
FH (60°-80°)	4318.4	7.0			G2/5000
FVH (80°-90°)	155.5	0.3			G2/225
BL (0°-30°)	5293.2	8.6	B5		
BM (30°-60°)	21183.3	34.2	B5		
BH (60°-80°)	4318.4	7.0	B4/5000		G2/5000
BVH (80°-90°)	155.5	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°	12225.0	12225.0	12225.0	12225.0	12225.0	12225.0	12225.0	12225.0	12225.0	12225.0	12225.0
2.5°	12164.0	12286.0	12232.6	12202.1	12225.0	12186.9	12125.8	12194.5	12179.2	12118.2	12095.3
5°	12133.5	12225.0	12164.0	12225.0	12164.0	12270.7	12240.2	12125.8	12263.1	12133.5	12179.2
7.5°	12110.6	12141.1	12156.4	12125.8	12103.0	12232.6	12164.0	12110.6	12034.3	12011.5	12049.6
10°	12057.2	12133.5	12019.1	12171.6	12202.1	12110.6	12110.6	12011.5	11950.4	11912.3	12042.0
12.5°	12194.5	12064.8	12049.6	12125.8	12148.7	12186.9	12080.1	12026.7	11912.3	11927.6	11904.7
15°	12034.3	12087.7	12095.3	12110.6	12133.5	12225.0	12125.8	12011.5	11965.7	11805.5	11820.8
17.5°	12095.3	12042.0	12095.3	12270.7	12240.2	12308.9	12202.1	12026.7	11919.9	11828.4	11950.4
20°	12202.1	12179.2	12202.1	12415.6	12453.8	12514.8	12423.3	12263.1	12057.2	11950.4	12011.5
22.5°	12316.5	12301.3	12316.5	12522.4	12743.6	12819.8	12728.3	12354.6	12247.9	12049.6	11980.9
25°	12522.4	12537.7	12697.8	12926.6	13071.5	13216.4	13048.6	12781.7	12438.5	12316.5	12171.6
27.5°	12980.0	13018.1	13109.6	13445.2	13696.9	13826.5	13590.1	13224.0	13010.5	12758.8	12720.7
30°	13544.3	13544.3	13704.5	13994.3	14337.5	14535.8	14246.0	13811.3	13552.0	13414.7	13330.8
32.5°	14291.7	14207.8	14268.8	14779.8	15313.7	15481.4	15092.5	14558.6	14146.8	13963.8	13902.8
35°	14932.3	14985.7	15123.0	15672.1	16266.9	16655.9	16045.8	15351.8	14932.3	14764.6	14734.1
37.5°	15763.6	15855.1	15923.8	16678.8	17395.6	17540.5	16953.3	16396.6	15885.6	15748.4	15672.1
40°	16938.1	16877.0	16899.9	17456.6	18104.9	18196.4	17616.8	17220.2	16800.8	16716.9	16716.9
42.5°	17906.6	17838.0	17914.2	18120.1	18615.8	18547.2	18226.9	17937.1	17761.7	17670.2	17761.7
45°	18493.8	18478.6	18615.8	18768.4	19119.2	18890.4	18638.7	18684.5	18516.7	18364.2	18356.6
47.5°	19134.4	19035.3	19203.1	19431.9	19164.9	19058.2	19042.9	19142.1	19088.7	18821.8	18737.9
50°	19447.1	19409.0	19675.9	19942.8	19797.9	19553.9	19607.3	19767.4	19081.1	18722.6	18516.7
52.5°	20286.0	20293.6	20804.6	20949.5	20888.5	20530.1	20644.4	20209.7	19401.4	18898.0	18920.9
55°	21605.4	21552.0	22124.0	22551.0	22619.7	22162.1	21613.0	21002.9	19988.6	19477.6	19325.1
57°	20880.9	21002.9	21635.9	22901.8	23542.5	23001.0	21803.6	20690.2	19340.3	18722.6	18448.1
57.5°	19912.3	20110.6	21208.8	22482.4	23153.5	23107.8	21567.2	20110.6	18905.6	17944.7	17967.6
60°	14589.2	14627.3	15618.7	17639.7	19736.9	19782.7	17906.6	15977.1	14634.9	13590.1	13735.0
62.5°	7695.0	7870.4	8266.9	9891.3	11706.4	12148.7	11012.4	10021.0	8861.8	8068.6	8144.9
65°	4072.5	4049.6	4240.2	4697.8	5590.1	5818.9	5666.4	4880.8	4476.7	4347.0	4354.6
67.5°	3309.8	3348.0	3325.1	3348.0	3409.0	3508.1	3485.2	3515.7	3538.6	3576.7	3569.1
70°	2806.5	2806.5	2821.7	2829.4	2829.4	2875.1	2928.5	3027.6	3035.3	3073.4	3088.7
72.5°	2211.6	2196.4	2219.3	2272.6	2280.3	2318.4	2394.7	2455.7	2478.6	2478.6	2432.8
75°	1502.4	1517.6	1548.1	1593.9	1639.7	1708.3	1769.3	1807.4	1822.7	1799.8	1776.9
77.5°	846.5	861.8	884.7	953.3	1006.7	1067.7	1136.3	1174.5	1212.6	1220.2	1174.5
80°	503.3	503.3	541.5	594.9	655.9	716.9	777.9	823.6	838.9	838.9	816.0
82.5°	305.1	312.7	343.2	396.6	450.0	488.1	541.5	579.6	610.1	602.5	587.2
85°	160.2	160.2	190.7	236.4	274.5	312.7	312.7	289.8	274.5	236.4	221.2
87.5°	53.4	45.8	61.0	61.0	53.4	61.0	61.0	68.6	68.6	68.6	68.6
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)