

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: P530562

Luminaire Tested: **GALN-SA5D-740-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530562
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-SA5D-740-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 34195 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

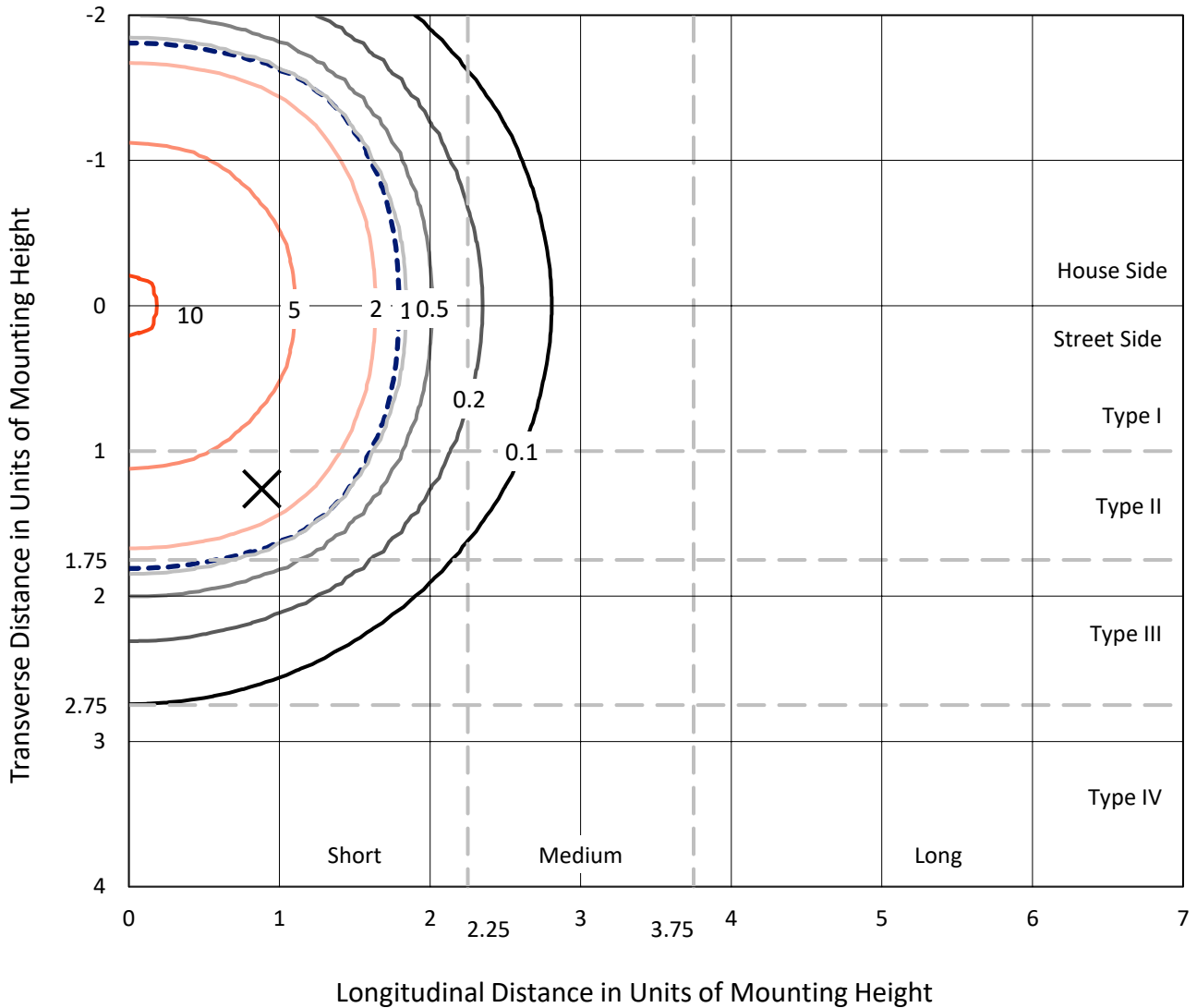
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

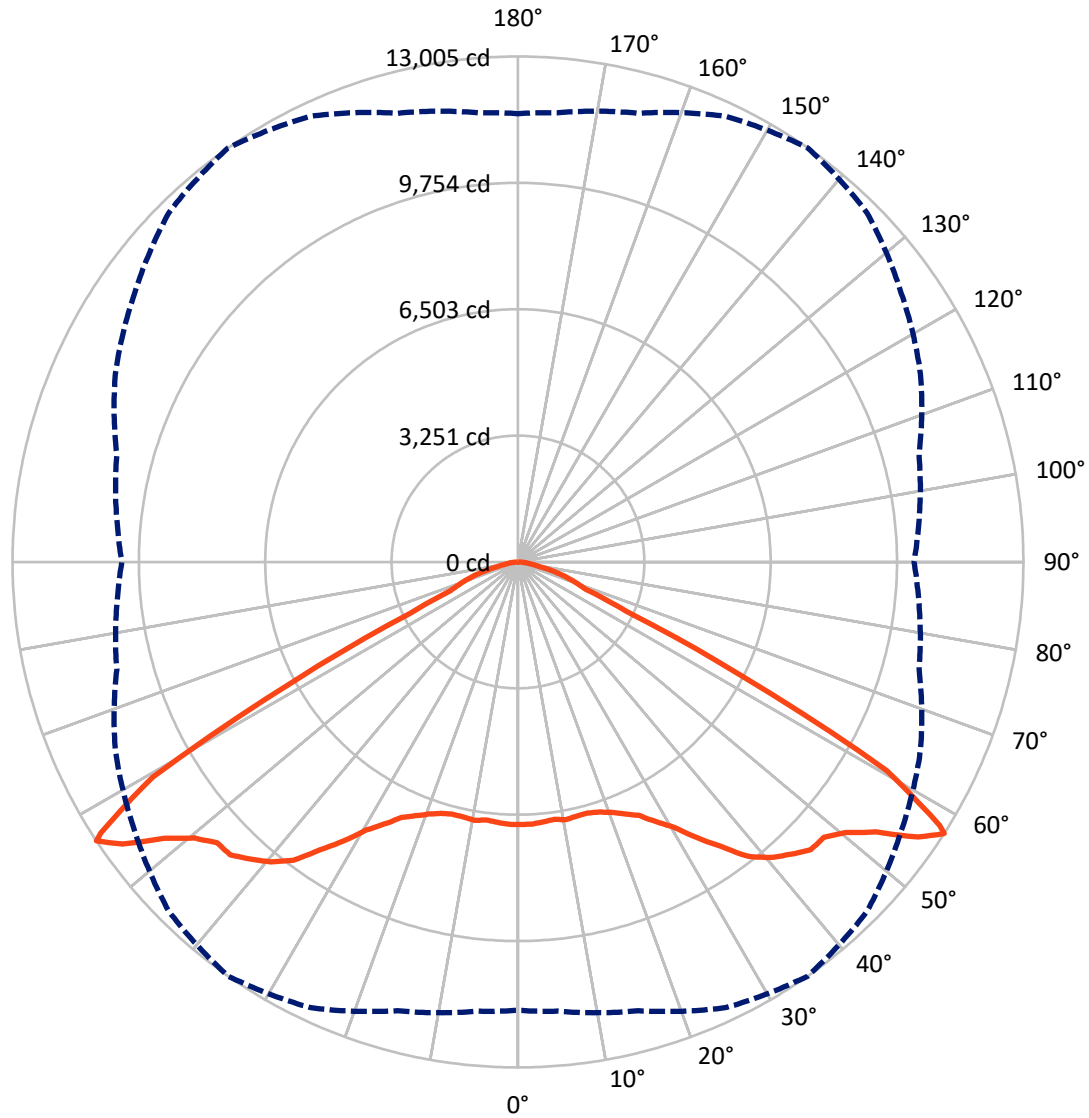
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 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	17097.5	0.0	17097.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17097.5	0.0	17097.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	34195.0	0.0	34195.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	640.2	1.9
10°-20°	1896.2	5.5
20°-30°	3311.7	9.7
30°-40°	5426.3	15.9
40°-50°	7956.2	23.3
50°-60°	10021.5	29.3
60°-70°	3769.0	11.0
70°-80°	1002.2	2.9
80°-90°	171.8	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°	34195.0	100.0
0°-180°	34195.0	100.0



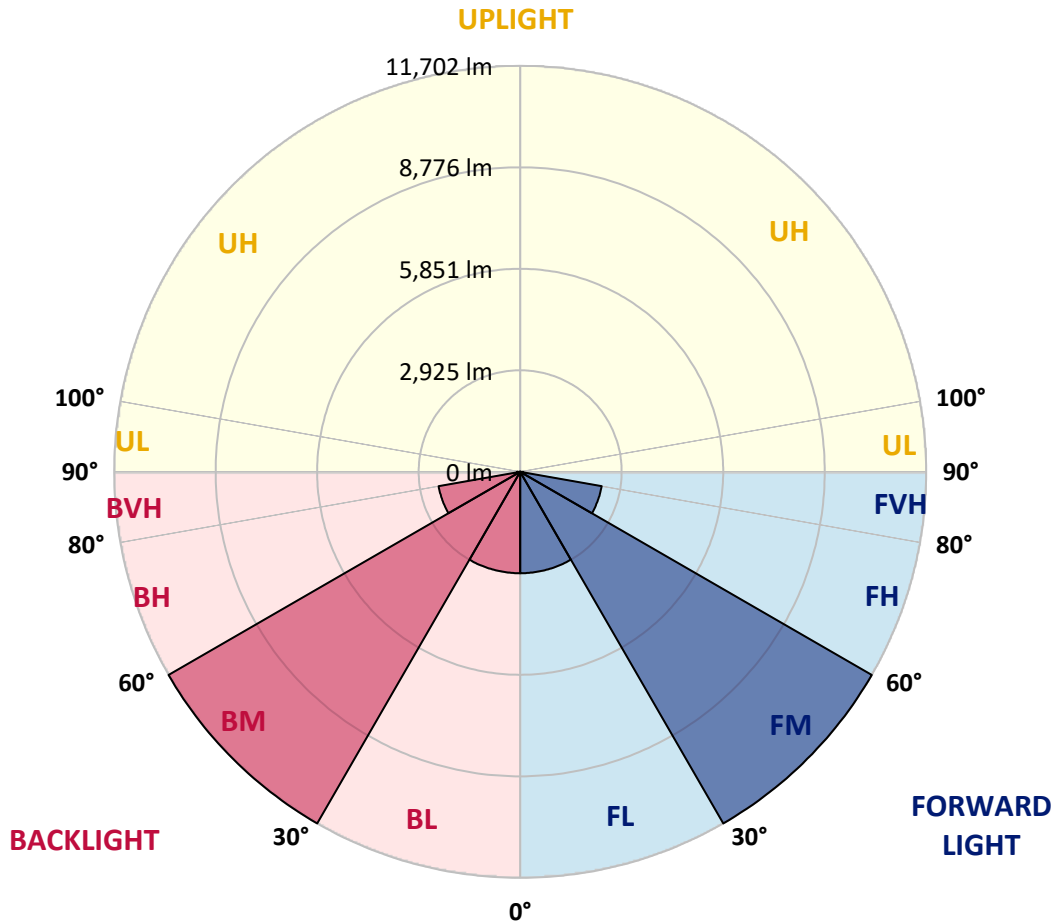
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2924.0	8.6			
FM (30°-60°)	11702.0	34.2			
FH (60°-80°)	2385.6	7.0			G2/5000
FVH (80°-90°)	85.9	0.3			G1/100
BL (0°-30°)	2924.0	8.6	B4/5000		
BM (30°-60°)	11702.0	34.2	B5		
BH (60°-80°)	2385.6	7.0	B3/2500		G2/5000
BVH (80°-90°)	85.9	0.3			G1/100
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°	6753.3	6753.3	6753.3	6753.3	6753.3	6753.3	6753.3	6753.3	6753.3	6753.3	6753.3
2.5°	6719.6	6787.0	6757.5	6740.6	6753.3	6732.2	6698.5	6736.4	6728.0	6694.3	6681.6
5°	6702.7	6753.3	6719.6	6753.3	6719.6	6778.5	6761.7	6698.5	6774.3	6702.7	6728.0
7.5°	6690.1	6706.9	6715.3	6698.5	6685.9	6757.5	6719.6	6690.1	6647.9	6635.3	6656.4
10°	6660.6	6702.7	6639.5	6723.8	6740.6	6690.1	6690.1	6635.3	6601.6	6580.5	6652.2
12.5°	6736.4	6664.8	6656.4	6698.5	6711.1	6732.2	6673.2	6643.7	6580.5	6589.0	6576.3
15°	6647.9	6677.4	6681.6	6690.1	6702.7	6753.3	6698.5	6635.3	6610.0	6521.6	6530.0
17.5°	6681.6	6652.2	6681.6	6778.5	6761.7	6799.6	6740.6	6643.7	6584.7	6534.2	6601.6
20°	6740.6	6728.0	6740.6	6858.6	6879.6	6913.4	6862.8	6774.3	6660.6	6601.6	6635.3
22.5°	6803.8	6795.4	6803.8	6917.6	7039.7	7081.9	7031.3	6824.9	6765.9	6656.4	6618.4
25°	6917.6	6926.0	7014.5	7140.8	7220.9	7300.9	7208.3	7060.8	6871.2	6803.8	6723.8
27.5°	7170.3	7191.4	7242.0	7427.3	7566.3	7638.0	7507.4	7305.1	7187.2	7048.2	7027.1
30°	7482.1	7482.1	7570.6	7730.7	7920.2	8029.8	7869.7	7629.5	7486.3	7410.5	7364.1
32.5°	7895.0	7848.6	7882.3	8164.6	8459.5	8552.2	8337.3	8042.4	7814.9	7713.8	7680.1
35°	8248.8	8278.3	8354.2	8657.5	8986.1	9200.9	8863.9	8480.5	8248.8	8156.2	8139.3
37.5°	8708.0	8758.6	8796.5	9213.6	9609.6	9689.6	9365.3	9057.7	8775.4	8699.6	8657.5
40°	9356.8	9323.1	9335.8	9643.3	10001.4	10052.0	9731.8	9512.7	9281.0	9234.7	9234.7
42.5°	9891.9	9853.9	9896.1	10009.8	10283.7	10245.7	10068.8	9908.7	9811.8	9761.3	9811.8
45°	10216.3	10207.8	10283.7	10367.9	10561.7	10435.3	10296.3	10321.6	10228.9	10144.6	10140.4
47.5°	10570.1	10515.4	10608.1	10734.4	10587.0	10528.0	10519.6	10574.4	10544.9	10397.4	10351.1
50°	10742.9	10721.8	10869.3	11016.7	10936.7	10801.8	10831.3	10919.8	10540.6	10342.6	10228.9
52.5°	11206.3	11210.5	11492.8	11572.8	11539.1	11341.1	11404.3	11164.2	10717.6	10439.5	10452.2
55°	11935.1	11905.6	12221.6	12457.5	12495.4	12242.7	11939.3	11602.3	11042.0	10759.7	10675.5
57°	11534.9	11602.3	11952.0	12651.3	13005.2	12706.1	12044.6	11429.6	10683.9	10342.6	10191.0
57.5°	10999.9	11109.4	11716.0	12419.6	12790.3	12765.1	11914.0	11109.4	10443.8	9912.9	9925.6
60°	8059.3	8080.3	8628.0	9744.4	10903.0	10928.2	9891.9	8826.0	8084.5	7507.4	7587.4
62.5°	4250.8	4347.7	4566.8	5464.1	6466.8	6711.1	6083.4	5535.7	4895.4	4457.2	4499.4
65°	2249.7	2237.0	2342.4	2595.1	3088.0	3214.4	3130.2	2696.2	2473.0	2401.3	2405.6
67.5°	1828.4	1849.5	1836.8	1849.5	1883.2	1937.9	1925.3	1942.1	1954.8	1975.8	1971.6
70°	1550.3	1550.3	1558.8	1563.0	1563.0	1588.3	1617.7	1672.5	1676.7	1697.8	1706.2
72.5°	1221.7	1213.3	1226.0	1255.4	1259.7	1280.7	1322.8	1356.6	1369.2	1369.2	1343.9
75°	829.9	838.4	855.2	880.5	905.8	943.7	977.4	998.5	1006.9	994.2	981.6
77.5°	467.6	476.1	488.7	526.6	556.1	589.8	627.7	648.8	669.8	674.1	648.8
80°	278.1	278.1	299.1	328.6	362.3	396.0	429.7	455.0	463.4	463.4	450.8
82.5°	168.5	172.7	189.6	219.1	248.6	269.6	299.1	320.2	337.0	332.8	324.4
85°	88.5	88.5	105.3	130.6	151.7	172.7	172.7	160.1	151.7	130.6	122.2
87.5°	29.5	25.3	33.7	33.7	29.5	33.7	33.7	37.9	37.9	37.9	37.9
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)