

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: P534279

Luminaire Tested: **GALN-SA9D-735-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534279
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-735-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39208 lumens
Efficiency: N/A
Efficacy: 71.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

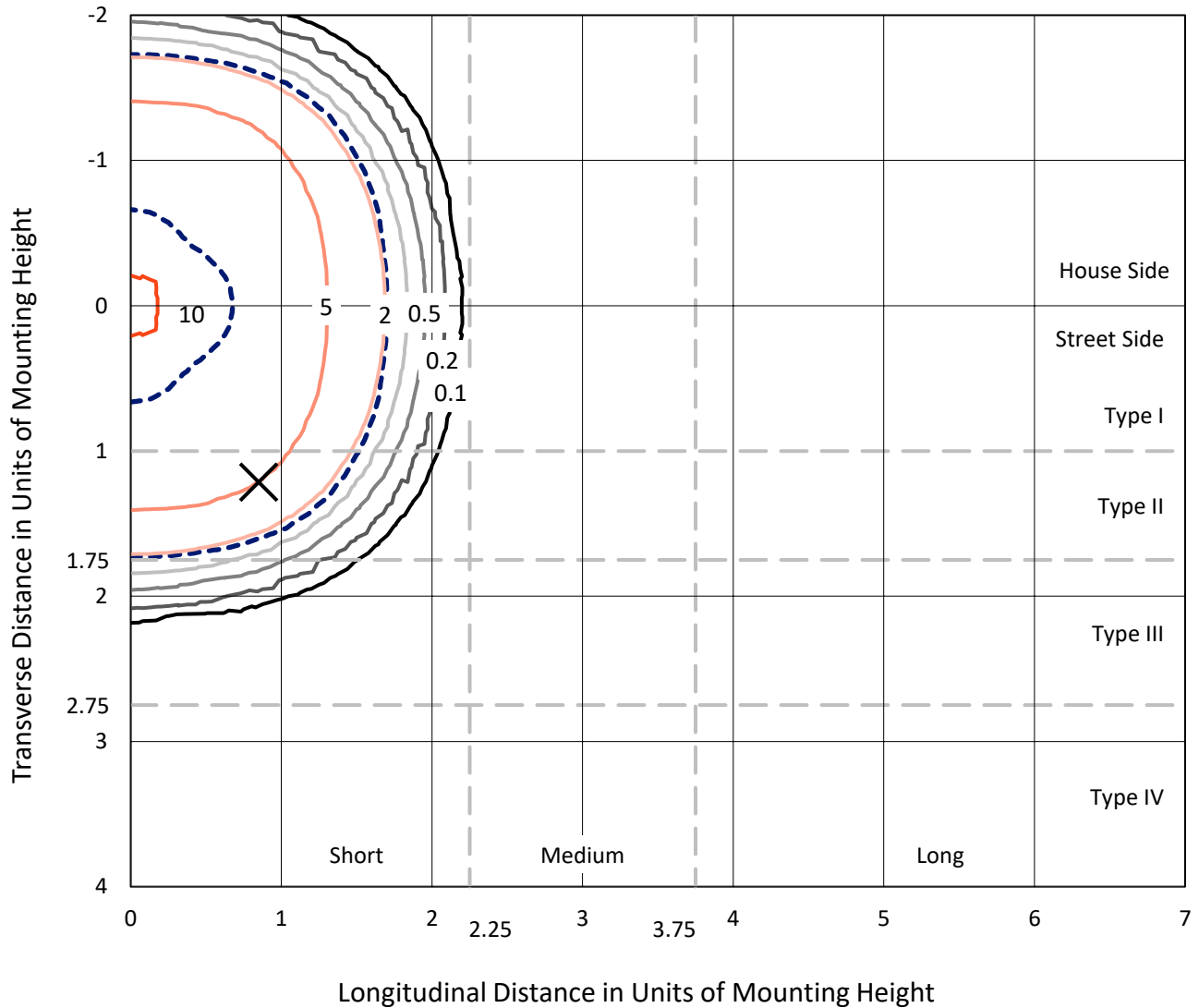
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P534279
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Iso-Footcandle Lines of Horizontal Illumination

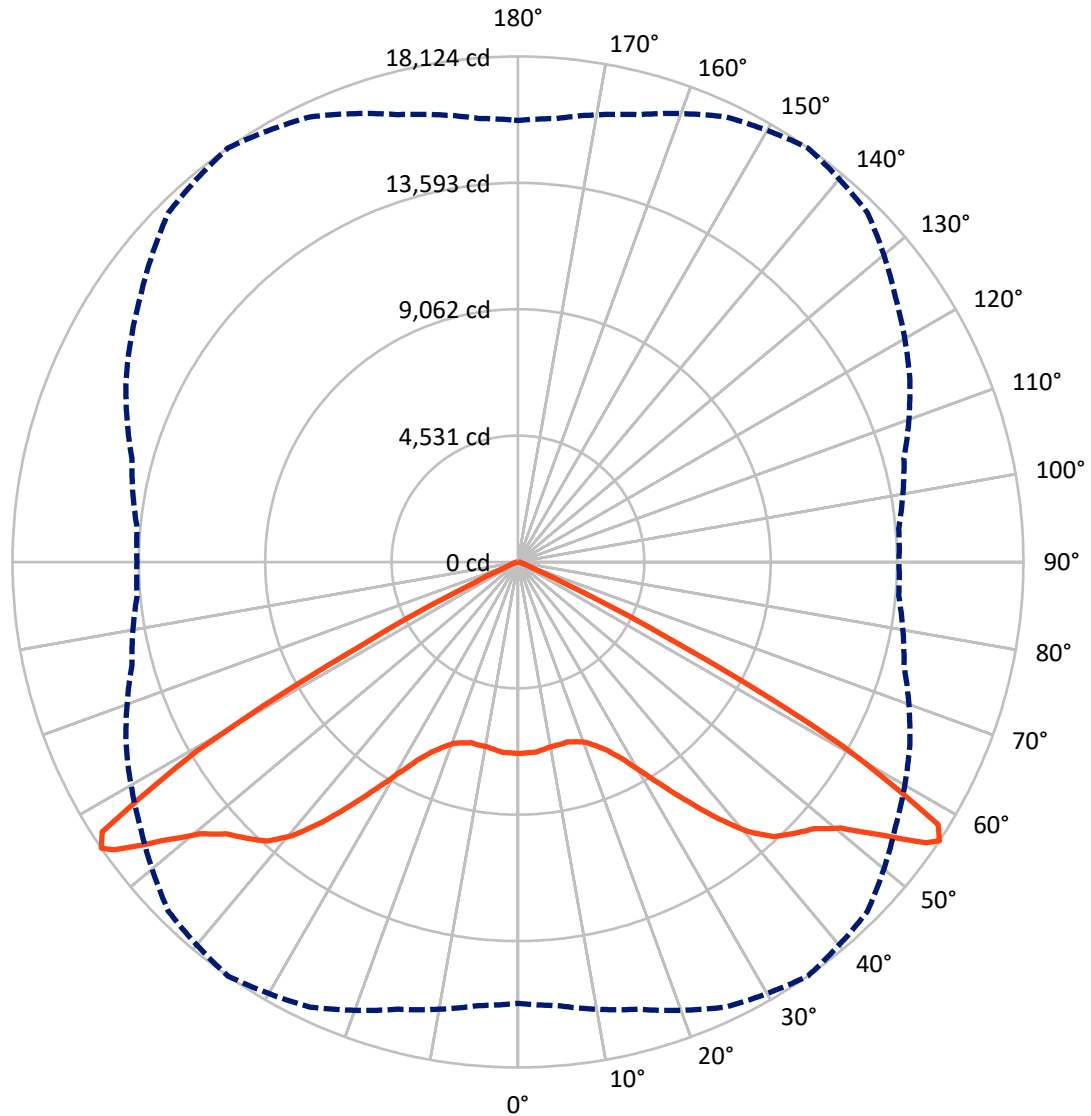
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 fc
 Type V - Short - N/A

REPORT NUMBER: P534279
CATALOG NUMBER: GALN-SA9D-735-U-5MQ-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19604.0	0.0	19604.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19604.0	0.0	19604.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	39208.0	0.0	39208.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	645.7	1.6
10°-20°	1885.1	4.8
20°-30°	3413.6	8.7
30°-40°	6330.1	16.1
40°-50°	10390.4	26.5
50°-60°	13385.9	34.1
60°-70°	2950.1	7.5
70°-80°	171.2	0.4
80°-90°	36.0	0.1
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°	39208.0	100.0
0°-180°	39208.0	100.0

Coefficient of Utilization



REPORT NUMBER: P534279

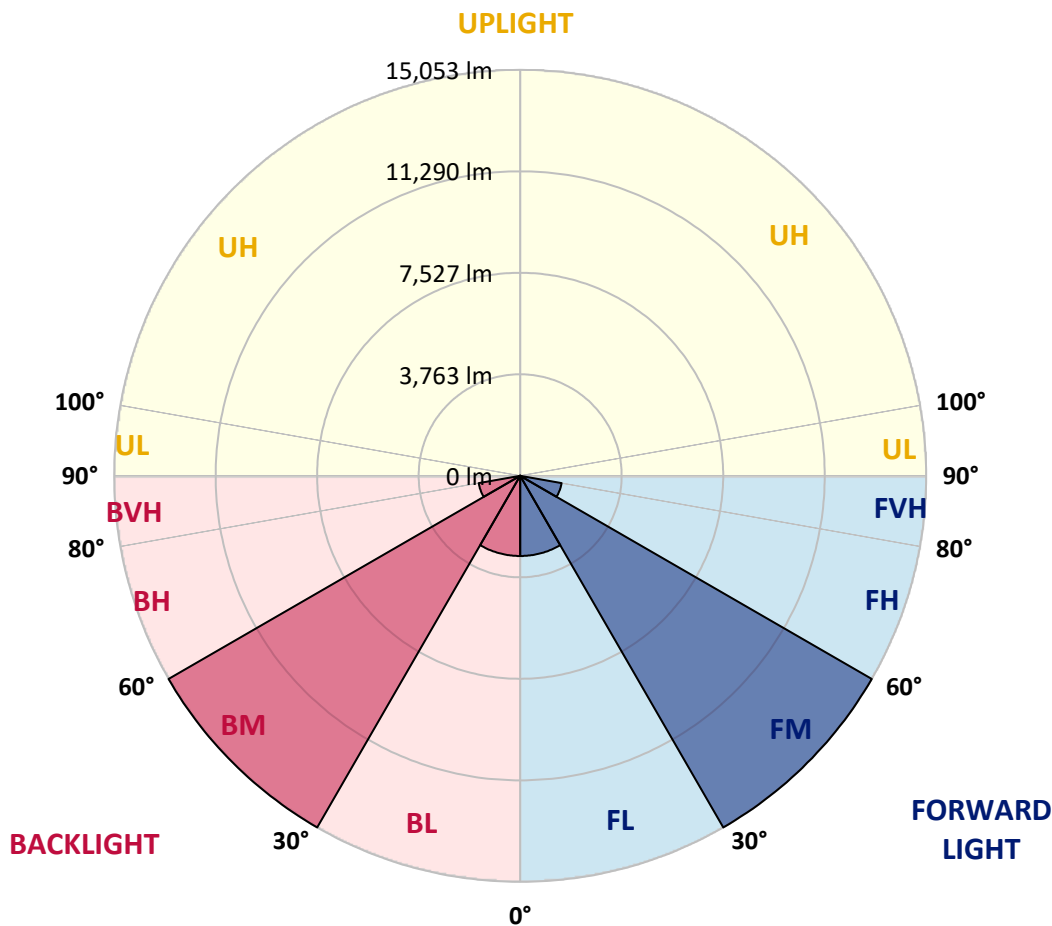
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2972.2	7.6			
FM (30°-60°)	15053.2	38.4			
FH (60°-80°)	1560.6	4.0			G1/1800
FVH (80°-90°)	18.0	0.0			G1/100
BL (0°-30°)	2972.2	7.6	B4/5000		
BM (30°-60°)	15053.2	38.4	B5		
BH (60°-80°)	1560.6	4.0	B3/2500		G1/1800
BVH (80°-90°)	18.0	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6870.1	6870.1	6870.1	6870.1	6870.1	6870.1	6870.1	6870.1	6870.1	6870.1	6870.1
2.5°	6884.3	6884.3	6891.4	6898.5	6848.8	6827.5	6834.6	6820.4	6813.2	6834.6	6834.6
5°	6863.0	6863.0	6841.7	6848.8	6848.8	6784.8	6784.8	6799.0	6799.0	6756.4	6742.2
7.5°	6806.1	6791.9	6763.5	6799.0	6777.7	6777.7	6728.0	6692.5	6678.3	6706.7	6678.3
10°	6685.4	6692.5	6720.9	6735.1	6720.9	6763.5	6678.3	6628.5	6578.8	6557.5	6557.5
12.5°	6628.5	6671.2	6628.5	6664.1	6713.8	6678.3	6628.5	6593.0	6522.0	6493.5	6493.5
15°	6621.4	6649.8	6664.1	6713.8	6692.5	6706.7	6607.2	6564.6	6458.0	6408.3	6387.0
17.5°	6614.3	6649.8	6671.2	6763.5	6777.7	6784.8	6706.7	6578.8	6486.4	6436.7	6387.0
20°	6692.5	6706.7	6749.3	6841.7	6898.5	6998.0	6855.9	6720.9	6522.0	6465.1	6443.8
22.5°	6791.9	6863.0	6905.6	7005.1	7154.3	7239.5	7054.8	6884.3	6678.3	6607.2	6522.0
25°	7111.6	7097.4	7168.5	7374.5	7495.3	7559.2	7410.0	7161.4	6891.4	6806.1	6820.4
27.5°	7509.5	7523.7	7587.6	7815.0	7992.6	8092.1	7914.5	7587.6	7324.8	7182.7	7168.5
30°	8028.1	8013.9	8085.0	8390.5	8710.2	8859.4	8546.8	8163.1	7907.3	7722.6	7765.3
32.5°	8575.2	8582.3	8781.2	9058.3	9576.9	9868.2	9363.8	8894.9	8511.2	8383.4	8319.4
35°	9385.1	9420.6	9576.9	10003.2	10578.7	10955.2	10401.0	9839.8	9399.3	9164.8	9193.3
37.5°	10386.8	10351.3	10614.2	11076.0	11679.9	11956.9	11488.0	10848.6	10401.0	10244.7	10344.2
40°	11452.5	11488.0	11623.0	12042.2	12717.1	12901.8	12205.6	11857.5	11466.7	11388.6	11509.3
42.5°	12518.2	12496.9	12596.3	12972.9	13463.1	13335.2	12923.1	12717.1	12440.0	12283.7	12447.1
45°	13299.7	13264.2	13448.9	13704.6	13882.3	13640.7	13456.0	13384.9	13242.9	13072.3	13221.5
47.5°	14059.9	14031.5	14209.1	14280.1	14294.3	13974.6	14010.1	14138.0	13782.8	13427.6	13598.1
50°	14706.4	14656.7	14876.9	15033.2	14997.7	14486.1	14614.0	14486.1	13932.0	13512.8	13448.9
52.5°	15786.3	15807.6	16042.0	16326.2	16241.0	15814.7	15630.0	15047.4	14337.0	13960.4	13740.2
55°	16468.3	16361.7	16766.7	17669.0	17768.4	17328.0	16510.9	15651.3	14585.6	14123.8	14067.0
56°	15828.9	15963.9	16603.3	17612.1	18123.7	17718.7	16532.3	15502.1	14329.8	13704.6	13662.0
57.5°	14202.0	14130.9	14997.7	16376.0	17768.4	17597.9	15949.7	14436.4	13072.3	12369.0	12283.7
60°	8838.0	9044.1	9804.3	11509.3	13370.7	13456.0	11821.9	10521.8	8930.4	8305.2	8454.4
62.5°	3459.9	3282.3	3758.3	5030.0	6308.8	6593.0	5974.9	4966.1	4078.0	3459.9	3417.3
65°	802.8	781.5	881.0	1214.9	1698.0	1968.0	1868.5	1342.8	987.5	937.8	866.8
67.5°	454.7	454.7	433.4	433.4	476.0	504.4	483.1	476.0	497.3	518.6	511.5
70°	319.7	312.6	298.4	305.5	291.3	291.3	312.6	348.1	376.5	376.5	383.6
72.5°	191.8	191.8	191.8	213.1	213.1	213.1	234.4	262.9	270.0	262.9	255.8
75°	85.3	85.3	99.5	120.8	135.0	142.1	163.4	177.6	191.8	177.6	163.4
77.5°	21.3	21.3	35.5	49.7	63.9	78.1	106.6	127.9	135.0	127.9	106.6
80°	7.1	7.1	14.2	35.5	63.9	78.1	106.6	113.7	120.8	106.6	85.3
82.5°	7.1	7.1	14.2	35.5	49.7	63.9	85.3	99.5	106.6	92.4	85.3
85°	0.0	7.1	14.2	28.4	42.6	56.8	56.8	42.6	35.5	21.3	28.4
87.5°	0.0	0.0	7.1	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)