

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: P534227

Luminaire Tested: **GALN-SA9D-727-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534227
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-727-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 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: 35199 lumens
Efficiency: N/A
Efficacy: 63.8 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

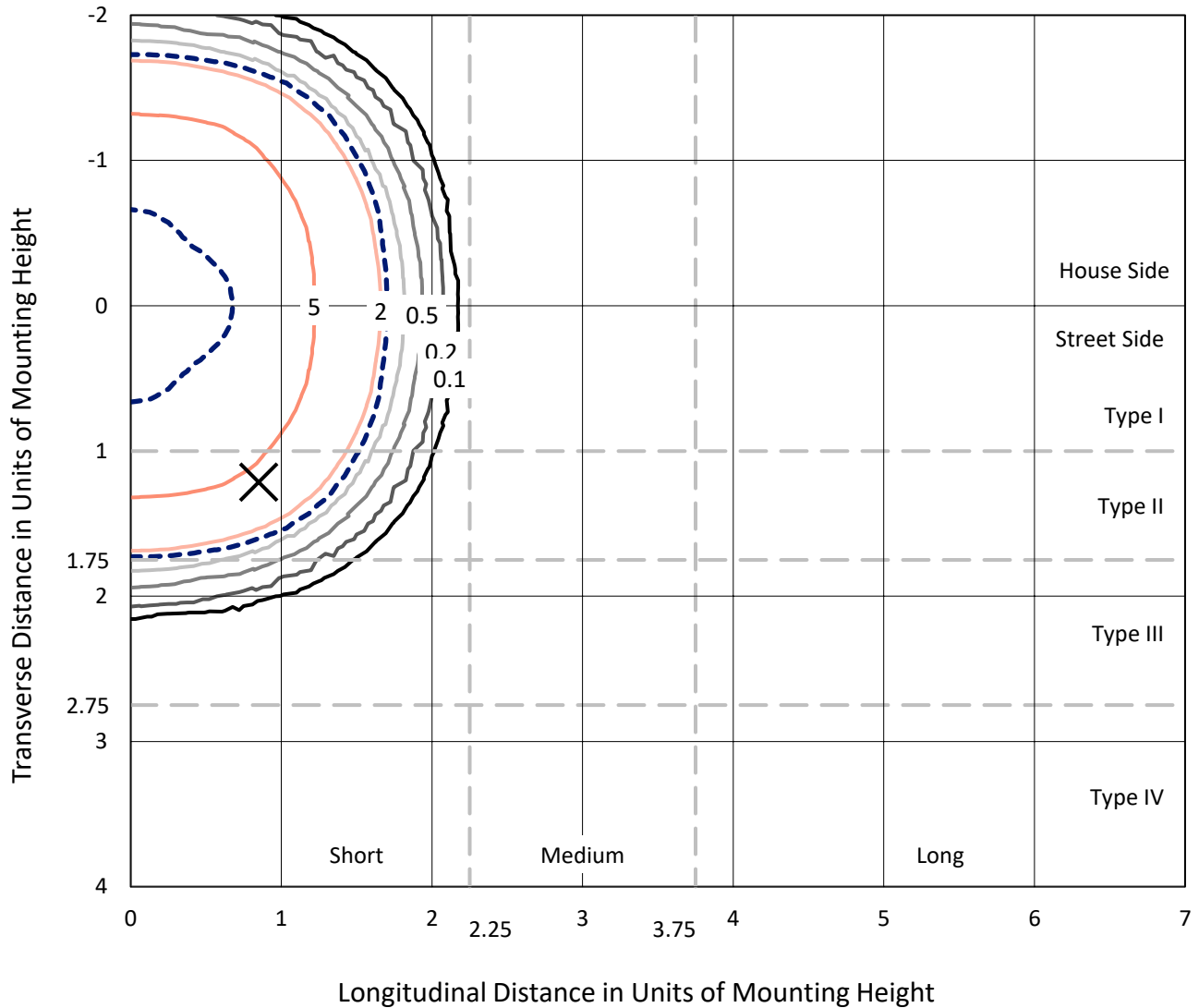
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P534227
 CATALOG NUMBER: GALN-SA9D-727-U-5MQ-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

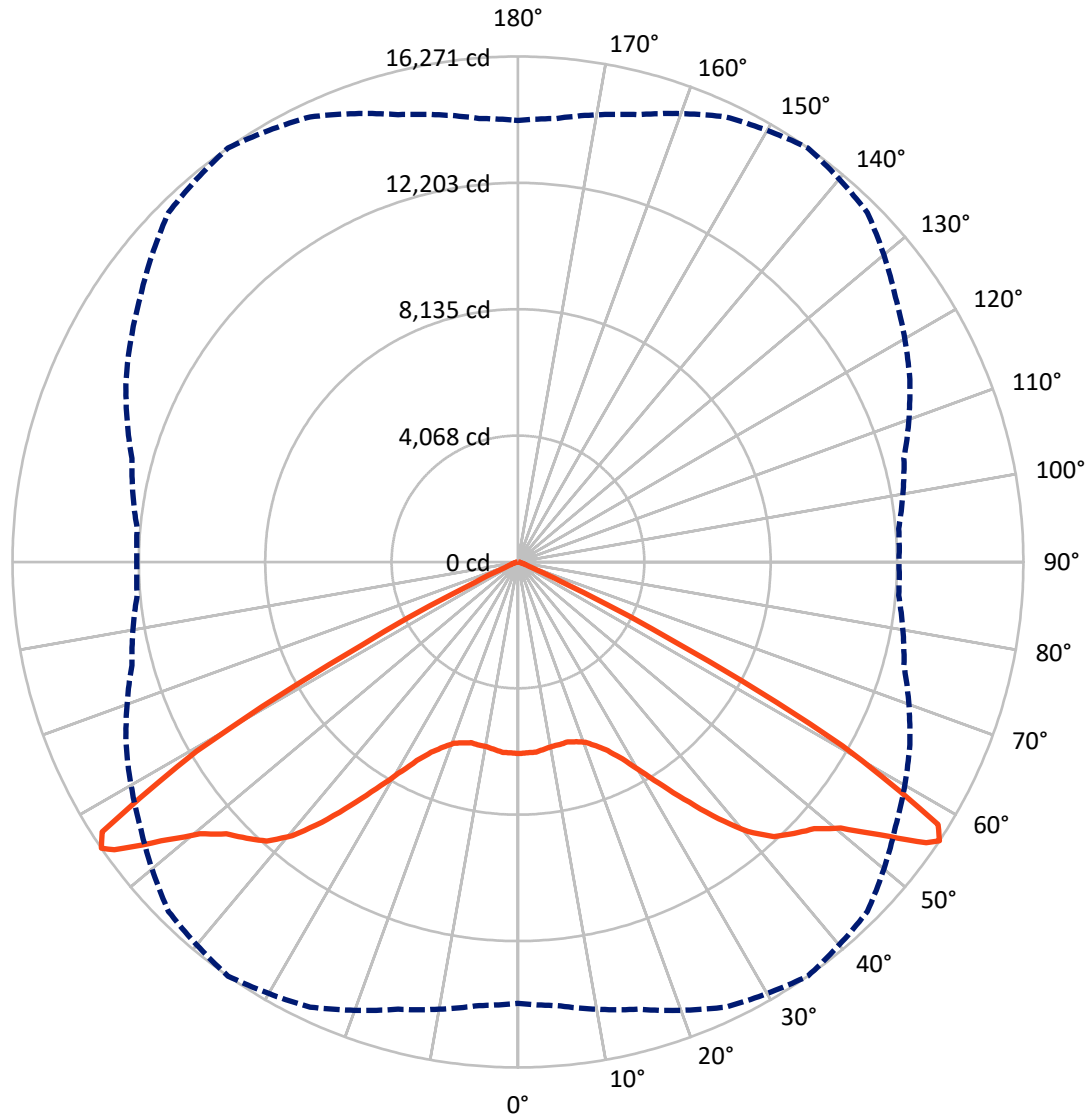
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc
 Type V - Short - N/A

REPORT NUMBER: P534227
CATALOG NUMBER: GALN-SA9D-727-U-5MQ-GRSBK

Luminous Intensity Polar Plot



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

REPORT NUMBER: P534227
 CATALOG NUMBER: GALN-SA9D-727-U-5MQ-GRSBK

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17599.5	0.0	17599.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17599.5	0.0	17599.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	35199.0	0.0	35199.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	579.7	1.6
10°-20°	1692.3	4.8
20°-30°	3064.6	8.7
30°-40°	5682.8	16.1
40°-50°	9328.0	26.5
50°-60°	12017.2	34.1
60°-70°	2648.5	7.5
70°-80°	153.7	0.4
80°-90°	32.3	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°	35199.0	100.0
0°-180°	35199.0	100.0

Coefficient of Utilization



REPORT NUMBER: P534227

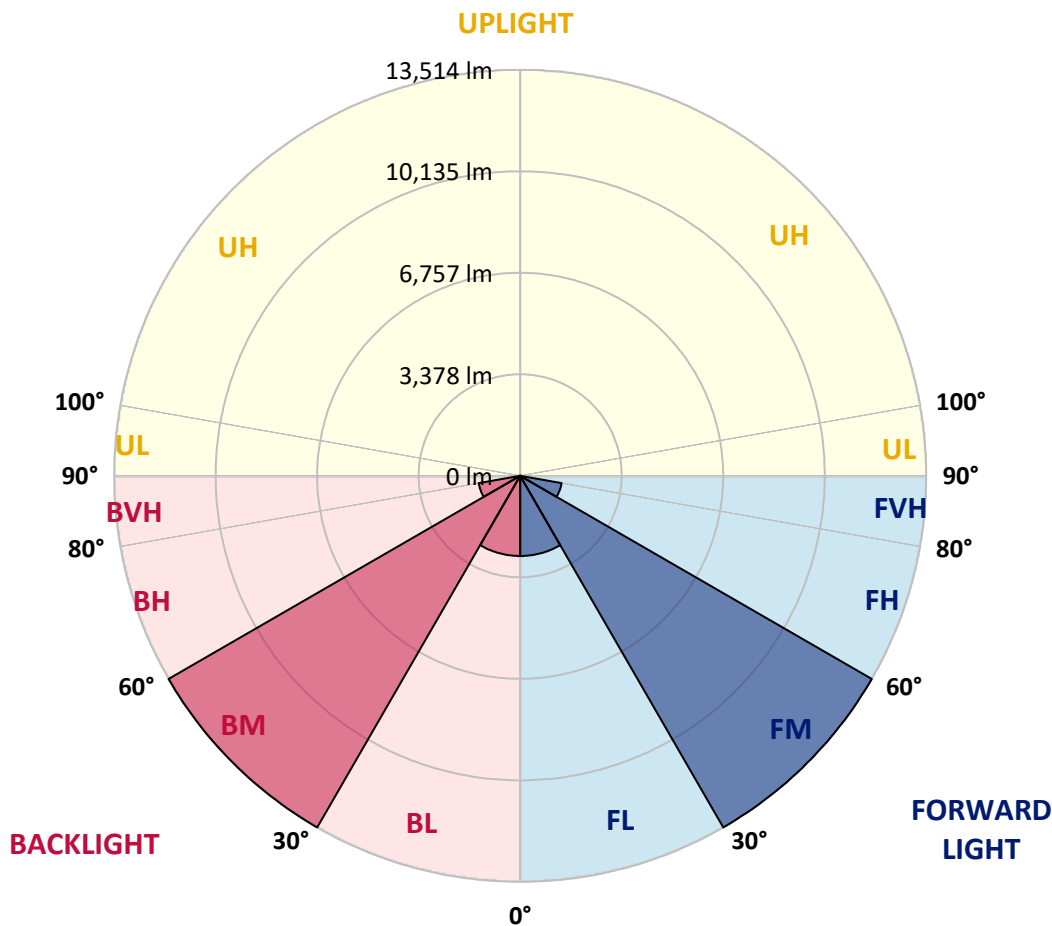
CATALOG NUMBER: GALN-SA9D-727-U-5MQ-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2668.3	7.6			
FM (30°-60°)	13514.0	38.4			
FH (60°-80°)	1401.1	4.0			G1/1800
FVH (80°-90°)	16.2	0.0			G1/100
BL (0°-30°)	2668.3	7.6	B4/5000		
BM (30°-60°)	13514.0	38.4	B5		
BH (60°-80°)	1401.1	4.0	B3/2500		G1/1800
BVH (80°-90°)	16.2	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





REPORT NUMBER: P534227

CATALOG NUMBER: GALN-SA9D-727-U-5MQ-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6167.6	6167.6	6167.6	6167.6	6167.6	6167.6	6167.6	6167.6	6167.6	6167.6	6167.6
2.5°	6180.4	6180.4	6186.8	6193.1	6148.5	6129.4	6135.7	6123.0	6116.6	6135.7	6135.7
5°	6161.2	6161.2	6142.1	6148.5	6148.5	6091.1	6091.1	6103.8	6103.8	6065.6	6052.8
7.5°	6110.2	6097.5	6072.0	6103.8	6084.7	6084.7	6040.1	6008.2	5995.4	6020.9	5995.4
10°	6001.8	6008.2	6033.7	6046.4	6033.7	6072.0	5995.4	5950.8	5906.1	5887.0	5887.0
12.5°	5950.8	5989.0	5950.8	5982.7	6027.3	5995.4	5950.8	5918.9	5855.1	5829.6	5829.6
15°	5944.4	5969.9	5982.7	6027.3	6008.2	6020.9	5931.6	5893.4	5797.7	5753.0	5733.9
17.5°	5938.0	5969.9	5989.0	6072.0	6084.7	6091.1	6020.9	5906.1	5823.2	5778.6	5733.9
20°	6008.2	6020.9	6059.2	6142.1	6193.1	6282.4	6154.9	6033.7	5855.1	5804.1	5784.9
22.5°	6097.5	6161.2	6199.5	6288.8	6422.7	6499.3	6333.5	6180.4	5995.4	5931.6	5855.1
25°	6384.5	6371.7	6435.5	6620.5	6728.9	6786.3	6652.4	6429.1	6186.8	6110.2	6123.0
27.5°	6741.7	6754.4	6811.8	7015.9	7175.4	7264.7	7105.2	6811.8	6575.8	6448.3	6435.5
30°	7207.3	7194.5	7258.3	7532.5	7819.5	7953.5	7672.9	7328.4	7098.8	6933.0	6971.3
32.5°	7698.4	7704.7	7883.3	8132.1	8597.7	8859.2	8406.3	7985.4	7641.0	7526.2	7468.8
35°	8425.5	8457.4	8597.7	8980.4	9497.0	9835.0	9337.5	8833.7	8438.2	8227.7	8253.3
37.5°	9324.8	9292.9	9528.9	9943.5	10485.6	10734.3	10313.4	9739.4	9337.5	9197.2	9286.5
40°	10281.5	10313.4	10434.6	10810.9	11416.8	11582.6	10957.6	10645.0	10294.3	10224.1	10332.5
42.5°	11238.2	11219.1	11308.4	11646.4	12086.5	11971.7	11601.8	11416.8	11168.1	11027.7	11174.4
45°	11939.8	11907.9	12073.7	12303.4	12462.8	12246.0	12080.1	12016.3	11888.8	11735.7	11869.6
47.5°	12622.3	12596.7	12756.2	12820.0	12832.7	12545.7	12577.6	12692.4	12373.5	12054.6	12207.7
50°	13202.7	13158.0	13355.7	13496.1	13464.2	13004.9	13119.7	13004.9	12507.5	12131.1	12073.7
52.5°	14172.1	14191.3	14401.7	14656.9	14580.3	14197.6	14031.8	13508.8	12871.0	12533.0	12335.2
55°	14784.4	14688.8	15052.3	15862.3	15951.6	15556.2	14822.7	14051.0	13094.2	12679.7	12628.6
56°	14210.4	14331.6	14905.6	15811.3	16270.5	15907.0	14841.8	13917.0	12864.6	12303.4	12265.1
57.5°	12749.8	12686.0	13464.2	14701.5	15951.6	15798.6	14318.8	12960.3	11735.7	11104.3	11027.7
60°	7934.4	8119.3	8801.8	10332.5	12003.6	12080.1	10613.2	9446.0	8017.3	7456.0	7589.9
62.5°	3106.1	2946.7	3374.0	4515.7	5663.8	5918.9	5364.0	4458.3	3661.0	3106.1	3067.9
65°	720.7	701.6	790.9	1090.7	1524.4	1766.7	1677.4	1205.5	886.6	841.9	778.1
67.5°	408.2	408.2	389.1	389.1	427.3	452.8	433.7	427.3	446.5	465.6	459.2
70°	287.0	280.6	267.9	274.3	261.5	261.5	280.6	312.5	338.0	338.0	344.4
72.5°	172.2	172.2	172.2	191.3	191.3	191.3	210.5	236.0	242.4	236.0	229.6
75°	76.5	76.5	89.3	108.4	121.2	127.6	146.7	159.5	172.2	159.5	146.7
77.5°	19.1	19.1	31.9	44.6	57.4	70.2	95.7	114.8	121.2	114.8	95.7
80°	6.4	6.4	12.8	31.9	57.4	70.2	95.7	102.0	108.4	95.7	76.5
82.5°	6.4	6.4	12.8	31.9	44.6	57.4	76.5	89.3	95.7	82.9	76.5
85°	0.0	6.4	12.8	25.5	38.3	51.0	51.0	38.3	31.9	19.1	25.5
87.5°	0.0	0.0	6.4	6.4	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)