

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: P457383

Luminaire Tested: **GALN-SA8D-727-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457383
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8D-727-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 54521 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

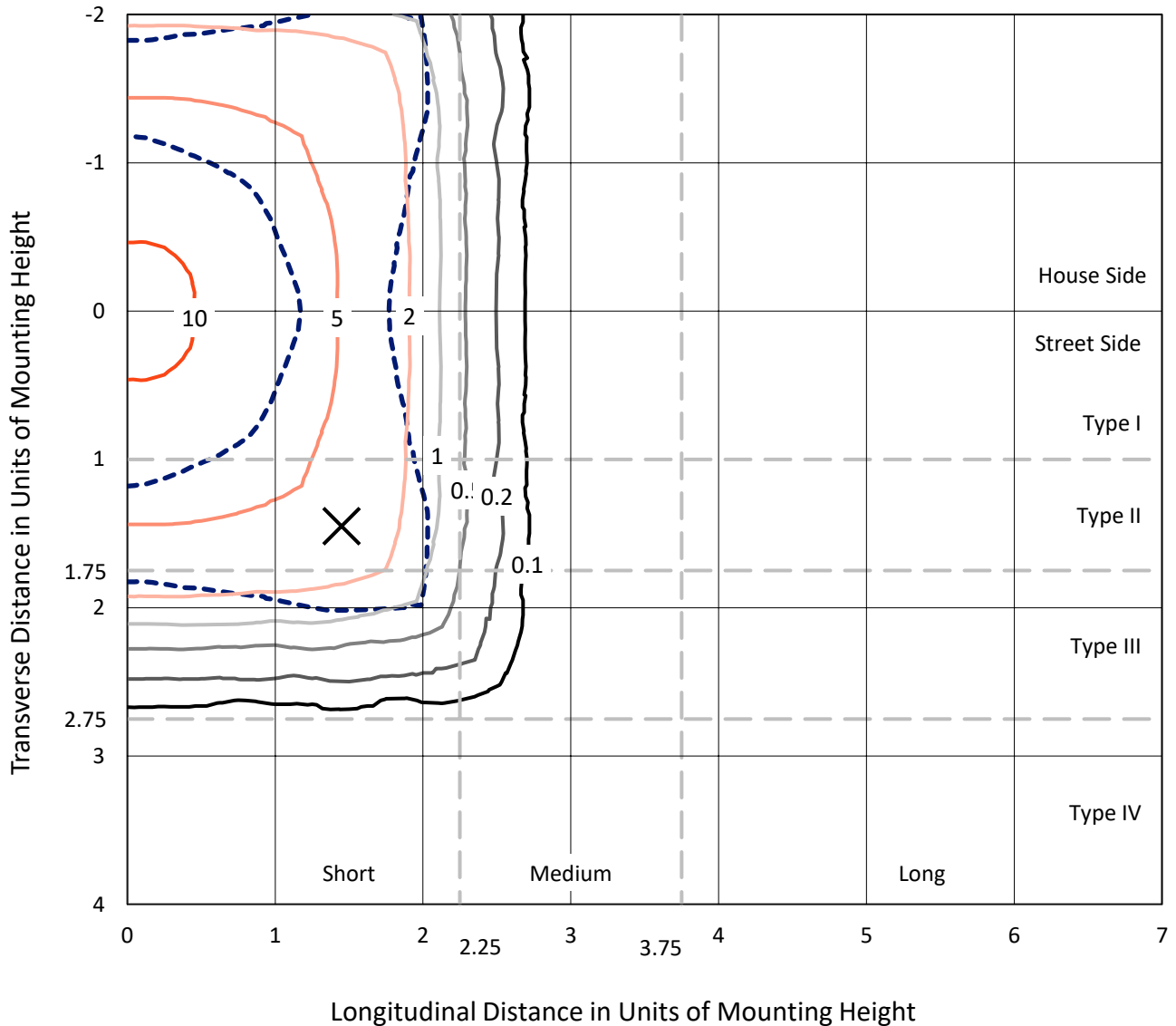
Input Watts (W): 493
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P457383
 CATALOG NUMBER: GALN-SA8D-727-U-5NQ

Iso-Footcandle Lines of Horizontal Illumination

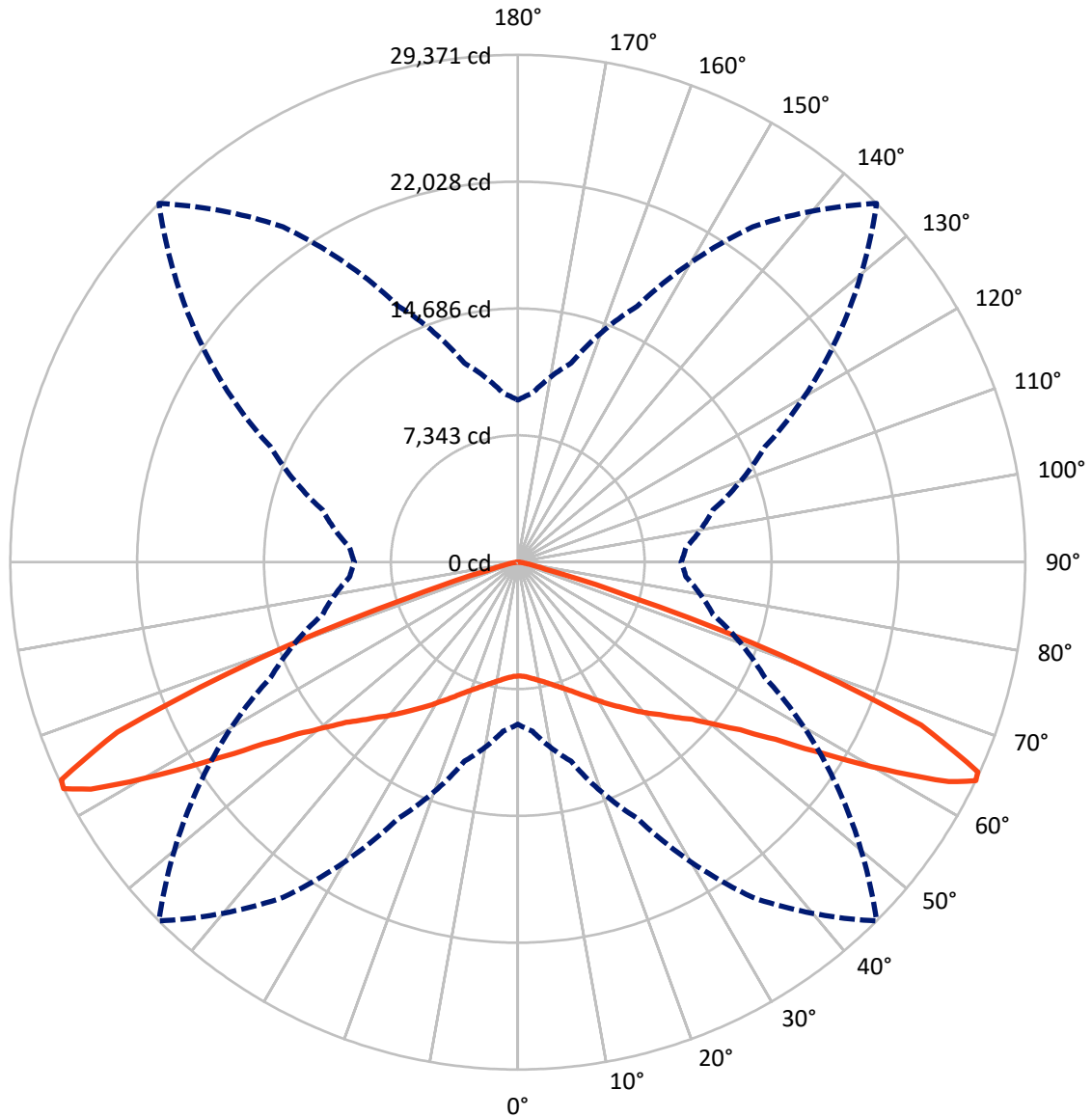
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 fc
 Type V - Short - N/A

REPORT NUMBER: P457383
CATALOG NUMBER: GALN-SA8D-727-U-5NQ

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

REPORT NUMBER: P457383

CATALOG NUMBER: GALN-SA8D-727-U-5NQ

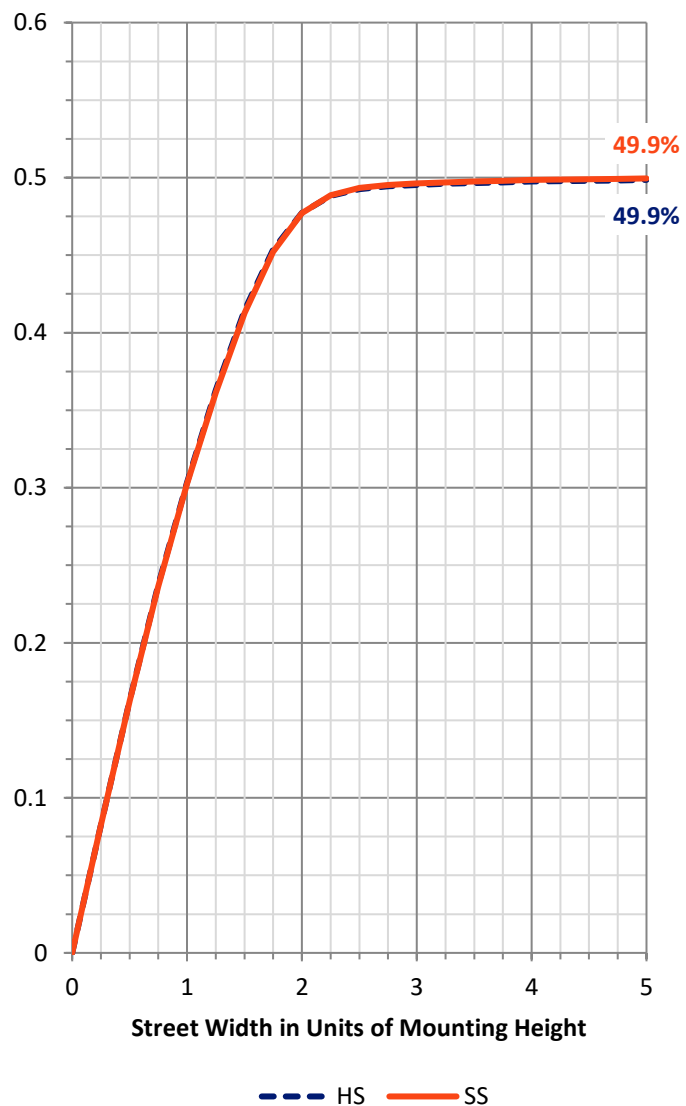
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	27260.5	0.0	27260.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	27260.5	0.0	27260.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	54521.0	0.0	54521.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	647.4	1.2
10°-20°	2088.3	3.8
20°-30°	3946.3	7.2
30°-40°	6535.5	12.0
40°-50°	10202.9	18.7
50°-60°	15773.4	28.9
60°-70°	13601.2	24.9
70°-80°	1541.4	2.8
80°-90°	184.7	0.3
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°	54521.0	100.0
0°-180°	54521.0	100.0

Coefficient of Utilization



REPORT NUMBER: P457383

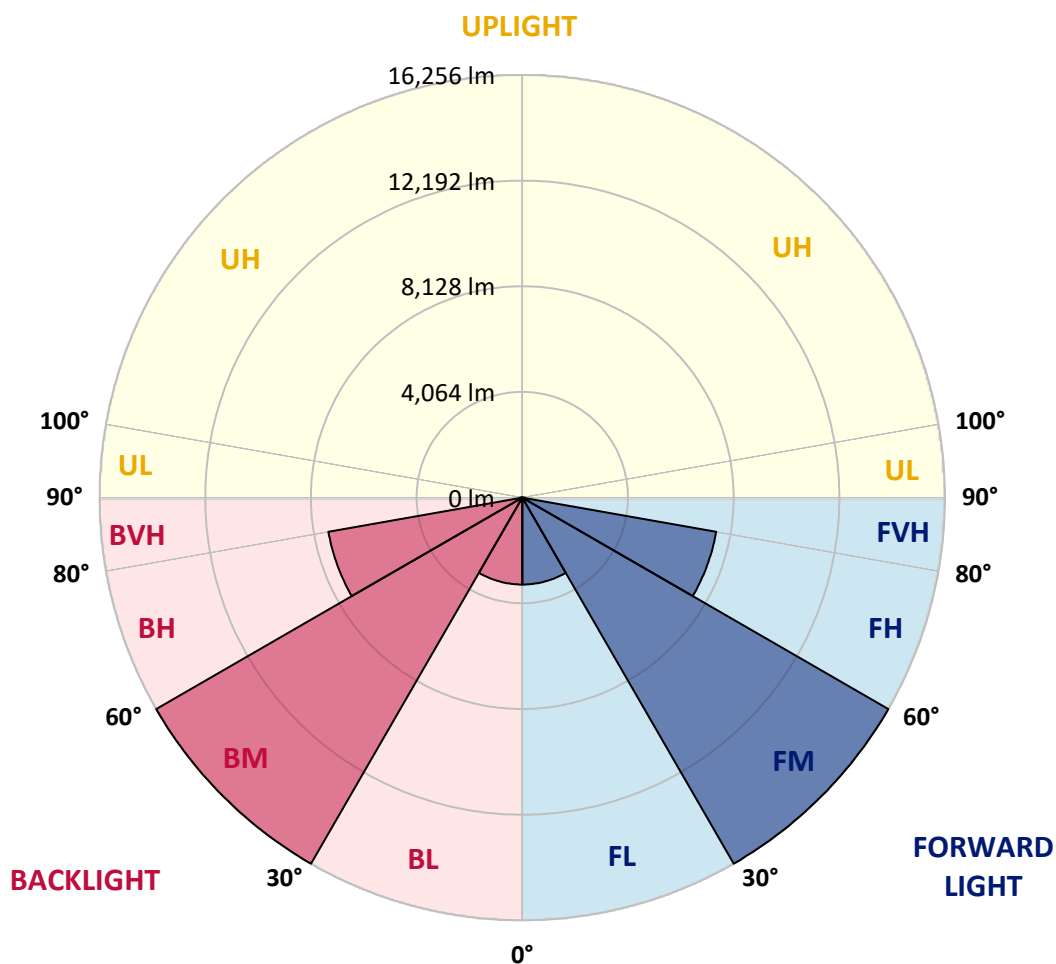
CATALOG NUMBER: GALN-SA8D-727-U-5NQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3341.0	6.1			
FM	(30°-60°)	16255.9	29.8			
FH	(60°-80°)	7571.3	13.9			G4/12000
FVH	(80°-90°)	92.3	0.2			G1/100
BL	(0°-30°)	3341.0	6.1	B4/5000		
BM	(30°-60°)	16255.9	29.8	B5		
BH	(60°-80°)	7571.3	13.9	B5		G4/12000
BVH	(80°-90°)	92.3	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6589.8	6589.8	6589.8	6589.8	6589.8	6589.8	6589.8	6589.8	6589.8	6589.8	6589.8
2.5°	6615.8	6630.2	6618.7	6615.8	6612.9	6612.9	6612.9	6615.8	6627.3	6636.0	6630.2
5°	6699.5	6711.1	6705.3	6702.4	6699.5	6702.4	6696.6	6693.7	6702.4	6702.4	6699.5
7.5°	6803.5	6817.9	6812.1	6817.9	6820.8	6823.7	6809.2	6797.7	6794.8	6803.5	6797.7
10°	6945.0	6956.5	6959.4	6962.3	6968.1	6965.2	6947.9	6927.6	6924.8	6921.9	6919.0
12.5°	7103.8	7112.5	7115.3	7126.9	7135.6	7138.4	7118.2	7100.9	7072.0	7077.8	7066.3
15°	7282.8	7300.2	7297.3	7314.6	7337.7	7343.5	7323.3	7294.4	7268.4	7254.0	7245.3
17.5°	7502.3	7513.9	7508.1	7525.4	7554.3	7568.7	7551.4	7513.9	7487.9	7456.1	7438.8
20°	7762.2	7782.4	7788.2	7788.2	7814.2	7828.6	7802.6	7791.1	7750.6	7727.5	7713.1
22.5°	8056.7	8065.4	8082.7	8100.1	8126.0	8120.3	8111.6	8094.3	8056.7	8036.5	8013.4
25°	8388.8	8397.5	8440.8	8478.3	8487.0	8481.2	8469.7	8461.0	8426.4	8380.2	8362.8
27.5°	8775.8	8793.1	8850.9	8885.5	8885.5	8888.4	8865.3	8894.2	8819.1	8764.2	8758.5
30°	9260.9	9272.5	9321.6	9356.2	9338.9	9324.5	9318.7	9347.6	9266.7	9168.5	9145.4
32.5°	9740.3	9780.7	9824.0	9899.1	9838.5	9812.5	9806.7	9826.9	9734.5	9624.8	9593.0
35°	10254.3	10283.2	10364.0	10427.6	10372.7	10312.1	10338.0	10401.6	10291.8	10144.6	10138.8
37.5°	10823.2	10849.2	10953.1	11019.5	10979.1	10875.2	10918.5	10993.6	10883.8	10701.9	10664.4
40°	11415.2	11470.0	11600.0	11669.3	11602.9	11464.3	11545.1	11626.0	11527.8	11317.0	11233.2
42.5°	12079.3	12166.0	12353.7	12388.3	12261.3	12073.6	12215.1	12345.0	12275.7	12033.1	12001.4
45°	12856.1	12908.1	13139.1	13214.2	13038.1	12804.2	12980.3	13217.1	13165.1	12885.0	12824.4
47.5°	13725.3	13774.4	14014.1	14126.7	13904.4	13589.6	13907.3	14216.3	14184.5	13884.2	13855.3
50°	14753.4	14764.9	15097.0	15224.1	15001.7	14730.3	15013.3	15397.3	15270.3	14886.2	14880.4
52.5°	15879.6	15894.0	16312.7	16558.2	16434.0	16127.9	16462.9	16696.8	16373.4	15870.9	15833.4
55°	16855.6	16927.8	17499.6	18152.2	18322.6	18100.2	18201.3	18091.6	17294.6	16590.0	16480.2
57.5°	17254.1	17395.6	18264.8	19483.5	20592.3	20921.5	20141.9	19096.5	17661.3	16665.0	16558.2
60°	16281.0	16434.0	17782.6	20095.7	22925.6	24355.0	22163.3	19266.9	16826.8	15426.2	15258.7
62.5°	13038.1	13081.4	15065.2	18654.7	24285.7	27987.8	23015.1	17814.4	14398.2	12495.2	12428.8
64°	9382.2	9826.9	11929.2	16356.1	23690.9	29371.0	22524.2	15778.5	11695.3	9769.2	9457.3
65°	7017.2	7138.4	9616.1	13967.9	22642.6	29267.1	21571.3	13832.2	9685.4	7476.3	7129.8
67.5°	2650.9	2665.4	3549.0	6962.3	16119.3	25180.9	16462.9	7525.4	4080.3	2951.3	2844.4
70°	1100.2	1120.4	1302.4	2341.9	6927.6	16168.4	7938.3	2714.5	1493.0	1210.0	1192.6
72.5°	805.7	817.2	872.1	1039.6	2131.1	6638.9	2610.5	1152.2	875.0	782.6	773.9
75°	632.4	638.2	678.6	765.2	993.4	1839.5	1085.8	791.2	667.1	600.6	594.9
77.5°	482.2	496.7	525.6	583.3	667.1	872.1	719.0	592.0	514.0	459.1	450.5
80°	332.1	349.4	404.3	427.4	447.6	566.0	490.9	447.6	401.4	335.0	314.8
82.5°	205.0	216.6	271.4	291.7	283.0	317.6	314.8	320.5	285.9	207.9	193.5
85°	106.8	112.6	147.3	153.0	141.5	129.9	161.7	187.7	176.2	118.4	115.5
87.5°	23.1	26.0	31.8	28.9	31.8	31.8	40.4	60.6	63.5	40.4	37.5
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)