

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: P456599

Luminaire Tested: **GALN-SA7D-827-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456599
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7D-827-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41543 lumens
Efficiency: N/A
Efficacy: 95.9 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

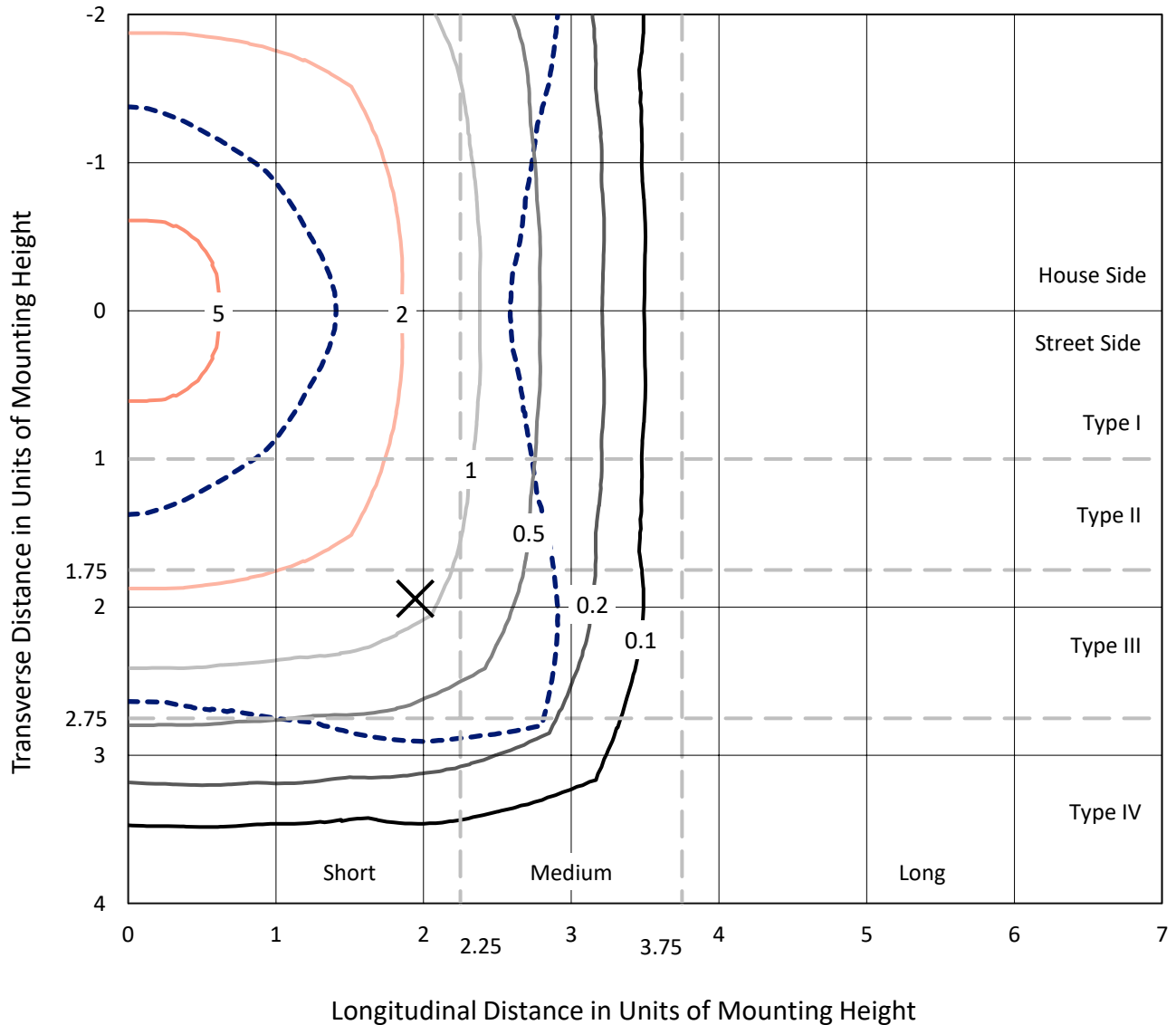
Input Watts (W): 433
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P456599
 CATALOG NUMBER: GALN-SA7D-827-U-5MQ

Iso-Footcandle Lines of Horizontal Illumination

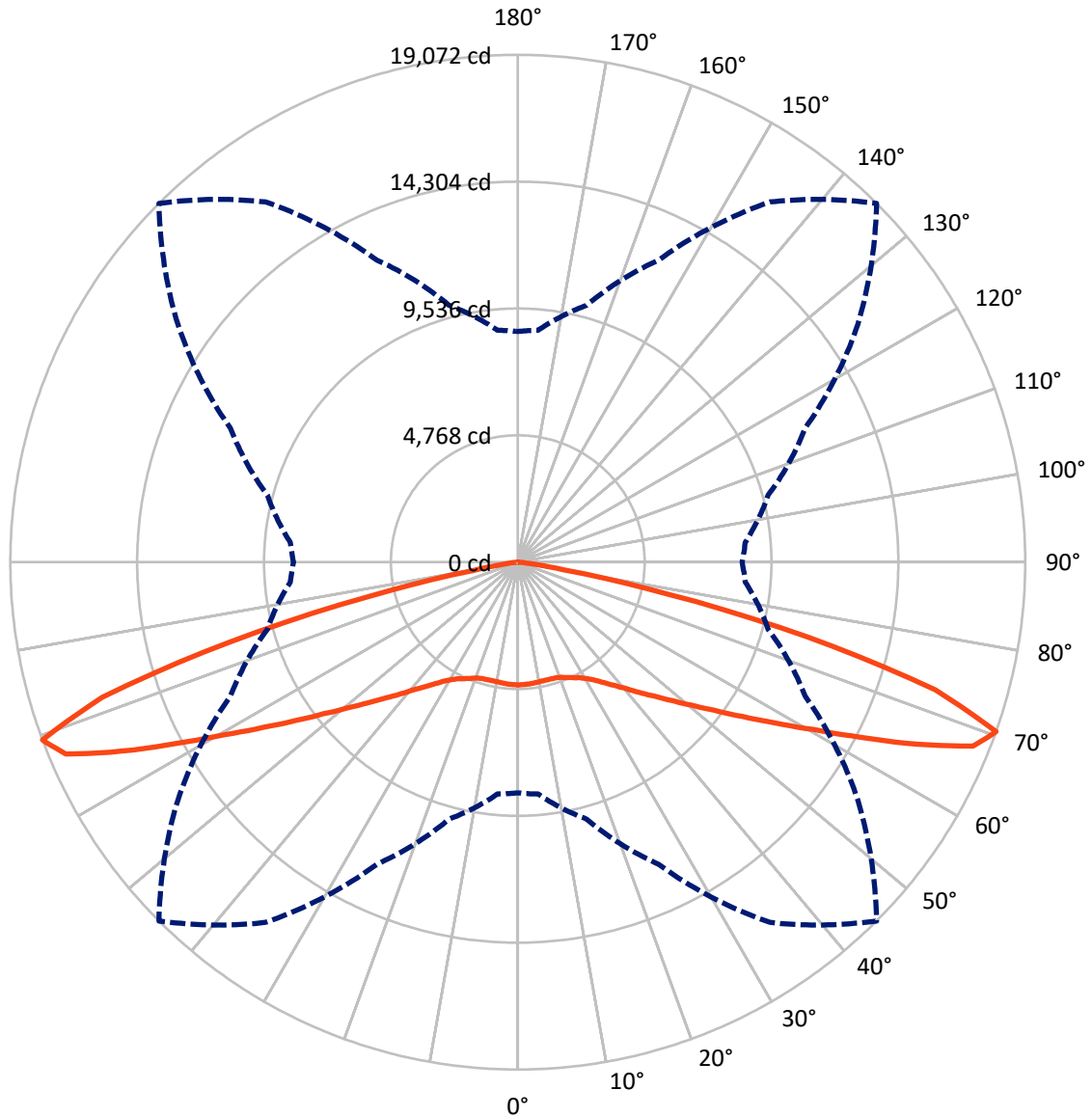
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type V - Short - N/A

REPORT NUMBER: P456599
CATALOG NUMBER: GALN-SA7D-827-U-5MQ

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20771.5	0.0	20771.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20771.5	0.0	20771.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	41543.0	0.0	41543.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	437.5	1.1
10°-20°	1283.7	3.1
20°-30°	2195.5	5.3
30°-40°	3484.7	8.4
40°-50°	5621.8	13.5
50°-60°	9146.8	22.0
60°-70°	13259.6	31.9
70°-80°	5881.5	14.2
80°-90°	232.0	0.6
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°	41543.0	100.0
0°-180°	41543.0	100.0

Coefficient of Utilization



REPORT NUMBER: P456599

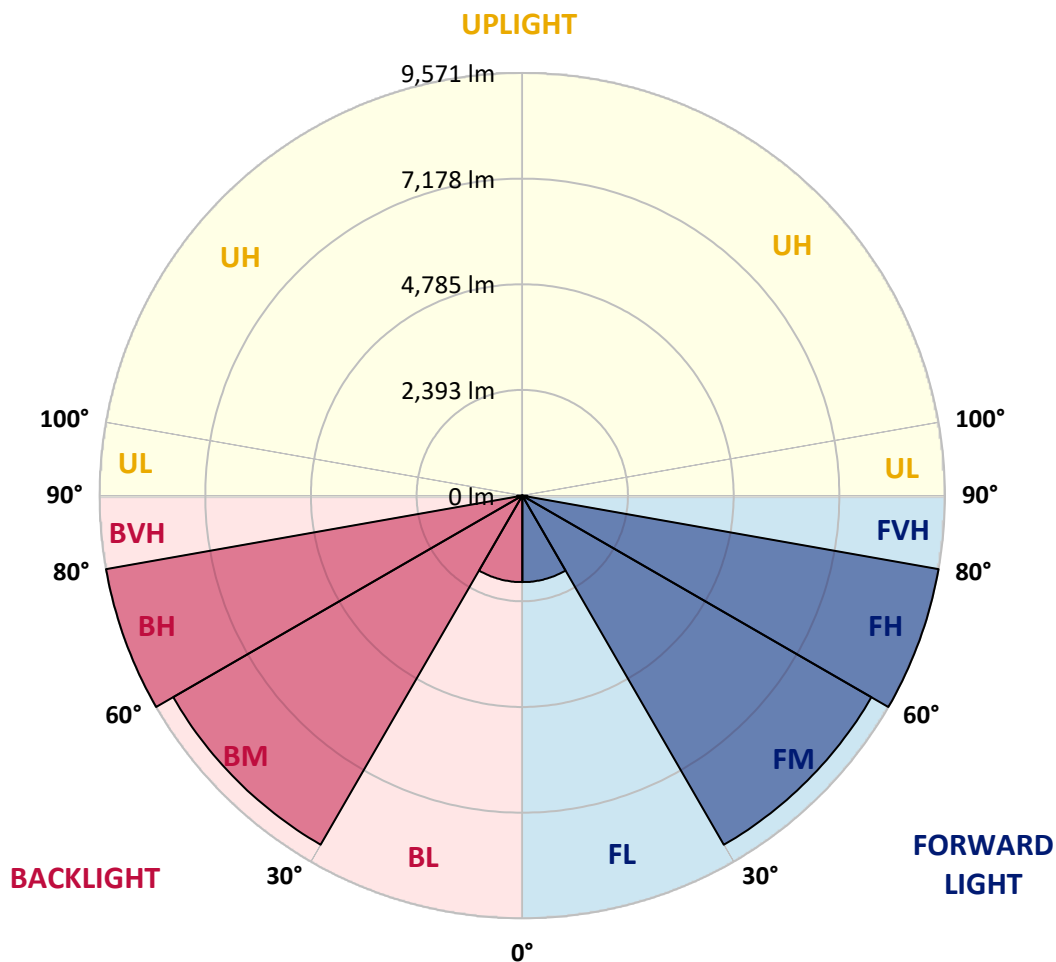
CATALOG NUMBER: GALN-SA7D-827-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1958.3	4.7			
FM (30°-60°)	9126.7	22.0			
FH (60°-80°)	9570.5	23.0			G4/12000
FVH (80°-90°)	116.0	0.3			G2/225
BL (0°-30°)	1958.3	4.7	B3/2500		
BM (30°-60°)	9126.7	22.0	B5		
BH (60°-80°)	9570.5	23.0	B5		G4/12000
BVH (80°-90°)	116.0	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-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4613.2	4613.2	4613.2	4613.2	4613.2	4613.2	4613.2	4613.2	4613.2	4613.2	4613.2
2.5°	4613.2	4617.5	4611.0	4606.6	4604.4	4604.4	4602.2	4604.4	4617.5	4619.7	4613.2
5°	4600.0	4604.4	4602.2	4597.8	4595.6	4595.6	4593.4	4591.3	4602.2	4606.6	4604.4
7.5°	4582.5	4584.7	4582.5	4580.3	4582.5	4580.3	4573.7	4569.4	4578.1	4578.1	4575.9
10°	4551.8	4556.2	4554.0	4556.2	4560.6	4560.6	4551.8	4543.1	4545.3	4540.9	4540.9
12.5°	4514.6	4521.2	4523.4	4532.1	4543.1	4556.2	4536.5	4516.8	4512.4	4510.3	4508.1
15°	4490.5	4497.1	4505.9	4514.6	4534.3	4562.8	4534.3	4503.7	4494.9	4486.2	4481.8
17.5°	4484.0	4492.7	4505.9	4519.0	4545.3	4573.7	4549.7	4519.0	4497.1	4484.0	4479.6
20°	4501.5	4508.1	4527.8	4551.8	4589.1	4617.5	4593.4	4560.6	4527.8	4508.1	4501.5
22.5°	4536.5	4547.5	4571.6	4615.3	4667.9	4709.5	4676.6	4621.9	4569.4	4543.1	4534.3
25°	4613.2	4621.9	4650.4	4709.5	4770.8	4810.2	4775.2	4711.7	4639.4	4604.4	4593.4
27.5°	4729.2	4742.3	4773.0	4843.0	4893.4	4915.3	4891.2	4847.4	4794.9	4757.7	4748.9
30°	4893.4	4908.7	4954.7	5029.1	5062.0	5075.1	5064.2	5035.7	4998.5	4959.1	4950.3
32.5°	5114.5	5123.3	5175.8	5245.9	5276.6	5280.9	5267.8	5254.7	5193.4	5127.7	5123.3
35°	5361.9	5377.3	5440.8	5524.0	5552.4	5554.6	5528.3	5508.6	5436.4	5383.8	5383.8
37.5°	5690.4	5696.9	5758.2	5852.4	5883.0	5874.3	5861.1	5843.6	5767.0	5699.1	5701.3
40°	6075.7	6088.8	6141.4	6250.9	6250.9	6239.9	6248.7	6235.5	6158.9	6093.2	6095.4
42.5°	6533.3	6539.9	6603.4	6719.4	6710.6	6688.7	6697.5	6680.0	6631.8	6557.4	6531.1
45°	7021.5	7047.8	7157.3	7268.9	7251.4	7181.4	7216.4	7212.0	7168.2	7056.6	7063.1
47.5°	7610.5	7654.3	7759.4	7892.9	7873.2	7763.8	7803.2	7829.4	7768.1	7645.5	7623.6
50°	8273.9	8302.4	8457.8	8582.6	8565.1	8449.1	8538.8	8543.2	8389.9	8217.0	8217.0
52.5°	8981.1	9009.6	9219.7	9414.6	9425.5	9257.0	9329.2	9324.8	9075.2	8847.5	8803.7
55°	9773.7	9786.8	10058.3	10345.1	10406.4	10242.2	10251.0	10163.4	9839.4	9574.4	9550.3
57.5°	10592.5	10640.7	10940.6	11312.8	11494.6	11393.9	11347.9	11113.6	10800.5	10496.2	10480.9
60°	11498.9	11501.1	11890.9	12330.9	12698.8	12766.6	12578.3	12265.3	11860.2	11457.4	11439.8
62.5°	12127.3	12221.5	12714.1	13458.5	14117.5	14498.5	14001.5	13344.6	12547.7	11897.4	11831.7
65°	12256.5	12320.0	13071.0	14332.1	15678.6	16499.6	15350.2	13953.3	12593.7	11726.7	11682.9
67.5°	11212.1	11280.0	12291.5	14227.0	16773.3	18457.0	16226.0	13659.9	11814.2	10741.4	10656.0
70°	8672.4	8749.0	9999.2	12523.6	16530.3	19072.2	15602.0	11914.9	9743.0	8584.8	8429.4
72.5°	4611.0	4893.4	5961.9	8595.7	13416.9	16420.8	12792.9	8694.3	6283.7	5136.4	4930.6
75°	1683.7	1718.7	2314.2	3811.8	7805.4	11260.3	8105.3	4146.8	2384.3	1841.3	1747.2
77.5°	696.2	694.1	761.9	1151.6	2835.3	5767.0	3163.7	1217.3	759.7	702.8	694.1
80°	411.6	411.6	453.2	479.5	746.6	1740.6	834.2	543.0	455.4	416.0	422.6
82.5°	183.9	194.9	286.8	302.1	361.3	477.3	402.9	345.9	297.8	205.8	186.1
85°	100.7	87.6	151.1	157.6	173.0	177.3	190.5	188.3	173.0	100.7	102.9
87.5°	19.7	24.1	43.8	32.8	37.2	32.8	43.8	61.3	63.5	35.0	28.5
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)