

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: P452758

Luminaire Tested: **GALN-SA3D-727-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452758
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3D-727-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19279 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

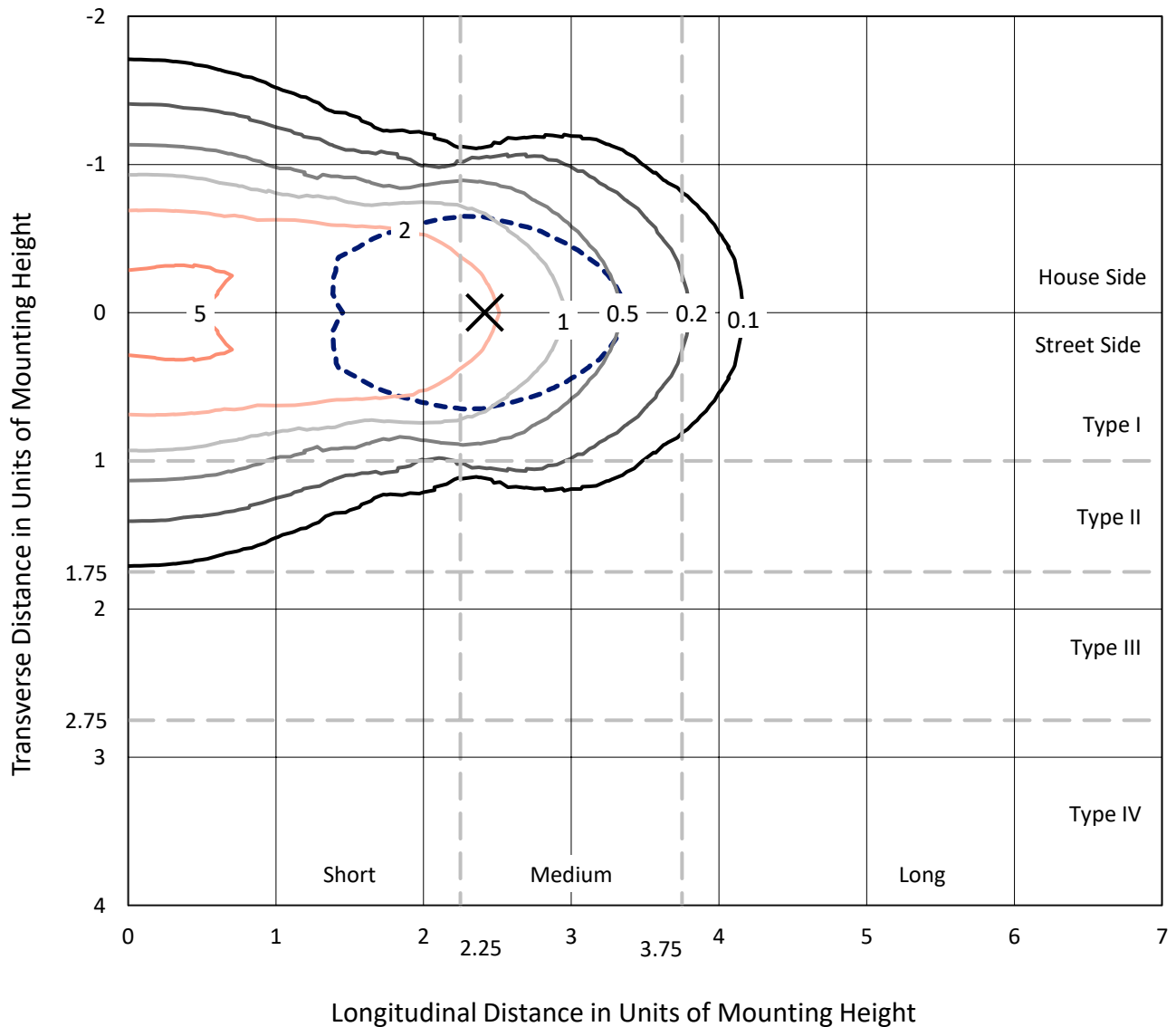
Input Watts (W): 184
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P452758
 CATALOG NUMBER: GALN-SA3D-727-U-T1

Iso-Footcandle Lines of Horizontal Illumination

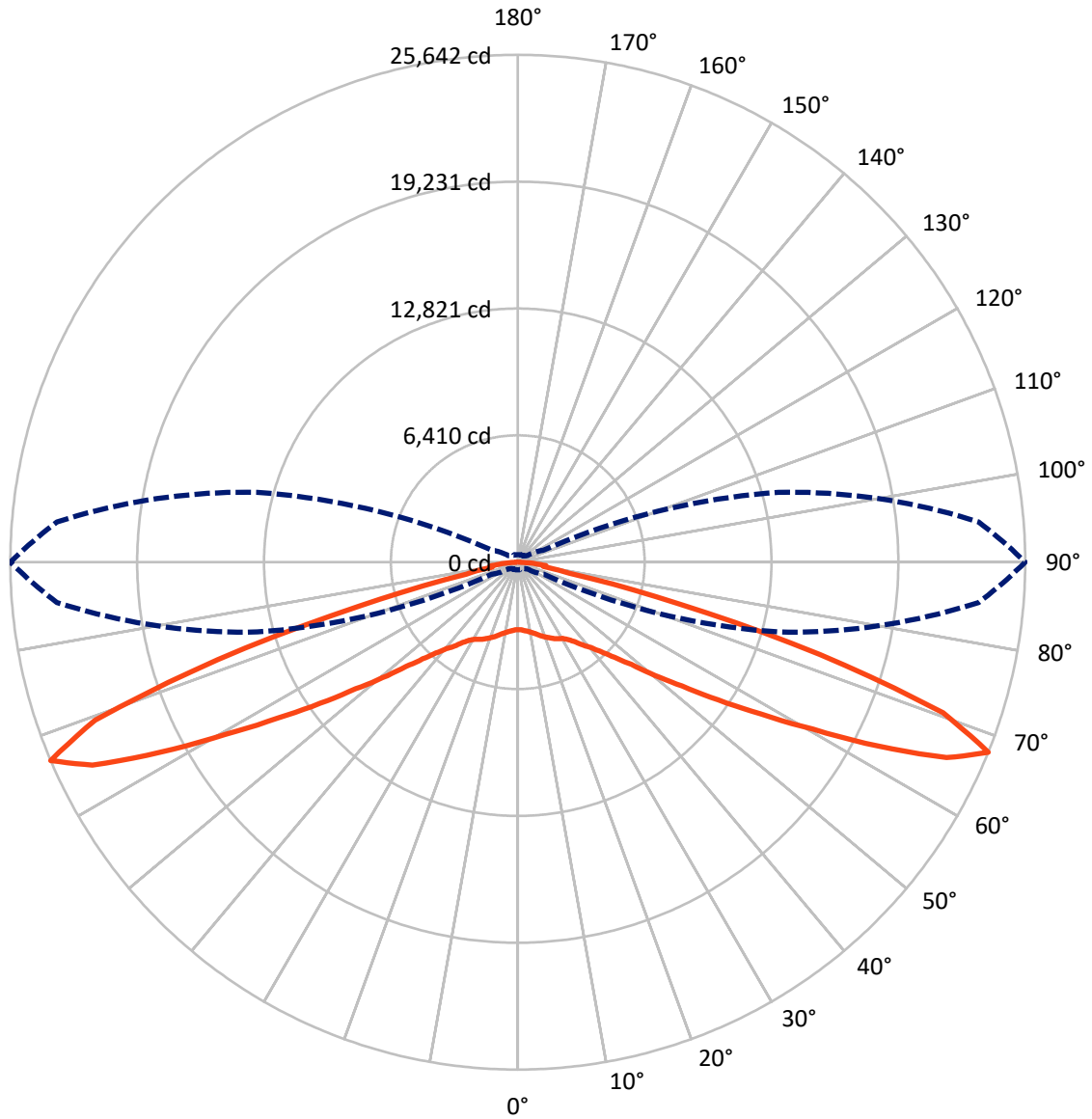
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type I - Short - N/A

REPORT NUMBER: P452758
CATALOG NUMBER: GALN-SA3D-727-U-T1

Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P452758

CATALOG NUMBER: GALN-SA3D-727-U-T1

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9639.5	0.0	9639.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9639.5	0.0	9639.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	19279.0	0.0	19279.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	340.3	1.8
10°-20°	1088.7	5.6
20°-30°	1822.2	9.5
30°-40°	2468.6	12.8
40°-50°	3126.9	16.2
50°-60°	3906.3	20.3
60°-70°	4591.6	23.8
70°-80°	1756.5	9.1
80°-90°	178.0	0.9
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°	19279.0	100.0
0°-180°	19279.0	100.0

Coefficient of Utilization



REPORT NUMBER: P452758

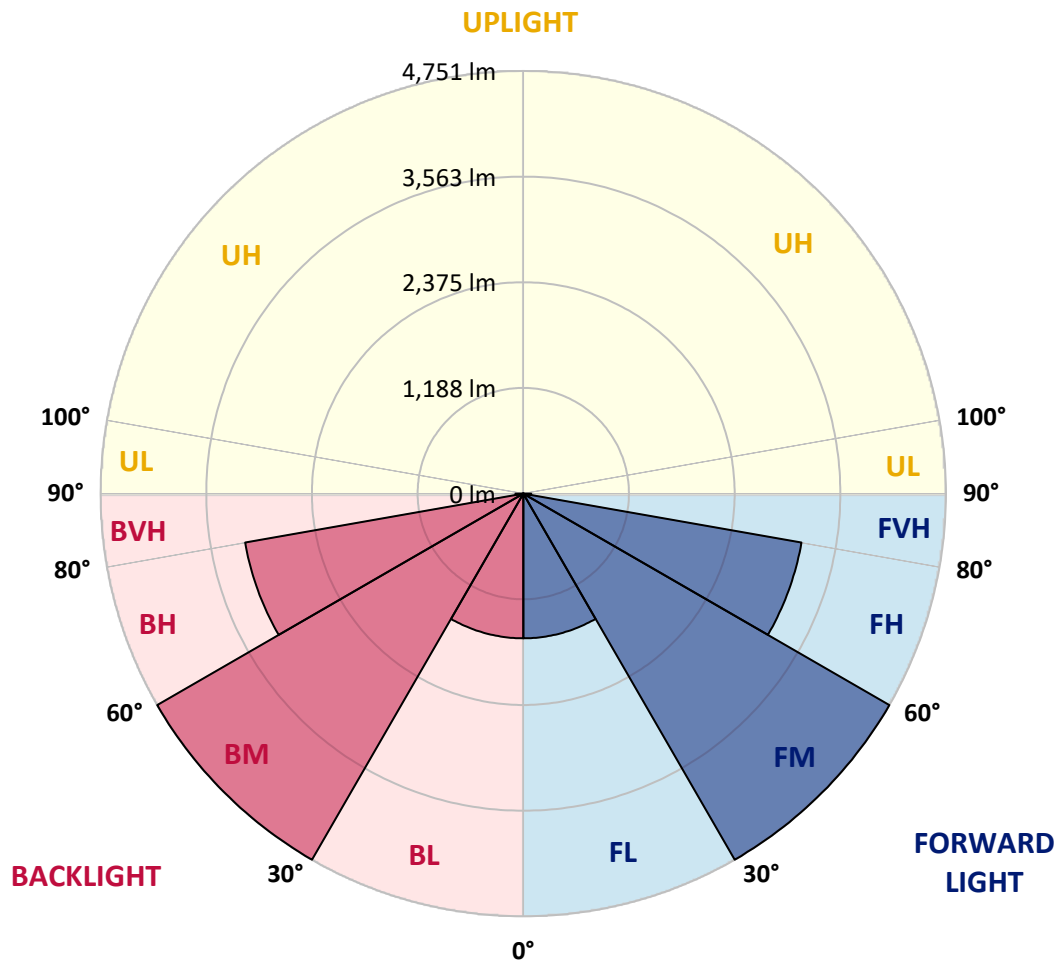
CATALOG NUMBER: GALN-SA3D-727-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1625.6	8.4			
FM	(30°-60°)	4750.9	24.6			
FH	(60°-80°)	3174.1	16.5			G2/5000
FVH	(80°-90°)	89.0	0.5			G1/100
BL	(0°-30°)	1625.6	8.4	B3/2500		
BM	(30°-60°)	4750.9	24.6	B3/5000		
BH	(60°-80°)	3174.1	16.5	B4/5000		G4/5000
BVH	(80°-90°)	89.0	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type I Short





REPORT NUMBER: P452758

CATALOG NUMBER: GALN-SA3D-727-U-T1

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3413.0	3413.0	3413.0	3413.0	3413.0	3413.0	3413.0	3413.0	3413.0	3413.0	3413.0
2.5°	3456.8	3454.6	3455.7	3454.6	3457.8	3455.7	3442.9	3432.2	3423.7	3424.7	3421.5
5°	3530.4	3531.5	3532.5	3527.2	3534.7	3530.4	3510.1	3493.1	3476.0	3469.6	3467.4
7.5°	3591.3	3596.6	3599.8	3605.1	3618.0	3618.0	3607.3	3582.7	3545.4	3524.0	3522.9
10°	3652.1	3656.4	3666.0	3683.1	3704.4	3724.7	3720.4	3687.3	3639.3	3603.0	3594.5
12.5°	3673.5	3678.8	3710.8	3759.9	3808.0	3847.5	3847.5	3820.8	3758.9	3703.4	3687.3
15°	3598.7	3608.3	3666.0	3770.6	3896.6	3983.1	4002.3	3964.9	3898.7	3813.3	3794.1
17.5°	3450.3	3473.8	3558.2	3713.0	3922.2	4101.6	4157.1	4138.9	4053.5	3944.6	3922.2
20°	3291.3	3316.9	3406.6	3611.5	3900.9	4170.9	4332.2	4336.4	4230.7	4072.7	4039.6
22.5°	3116.2	3135.4	3250.7	3490.9	3836.8	4187.0	4482.7	4556.3	4413.3	4200.8	4153.9
25°	2919.8	2941.1	3061.8	3321.2	3716.2	4168.8	4620.4	4782.7	4604.4	4337.5	4277.7
27.5°	2731.9	2740.4	2869.6	3133.3	3557.1	4121.8	4721.8	4990.8	4815.8	4450.6	4374.9
30°	2551.5	2571.7	2686.0	2946.5	3374.6	4030.0	4809.3	5227.8	5043.1	4569.1	4472.0
32.5°	2360.4	2384.9	2508.8	2772.4	3192.0	3892.3	4862.7	5487.2	5360.2	4761.3	4657.8
35°	2176.8	2192.8	2317.7	2573.9	3013.7	3732.2	4872.3	5779.8	5769.1	5052.8	4915.0
37.5°	1988.9	2012.3	2138.3	2383.9	2824.8	3562.4	4824.3	6090.4	6262.3	5457.4	5309.0
40°	1808.4	1828.7	1952.6	2200.2	2610.2	3355.3	4710.1	6374.4	6837.7	5873.7	5663.4
42.5°	1612.0	1617.4	1752.9	2004.9	2399.9	3115.1	4545.7	6627.4	7479.3	6432.0	6170.5
45°	1388.9	1402.8	1528.7	1776.4	2158.6	2846.1	4322.5	6836.6	8292.8	7206.0	6849.5
47.5°	1165.8	1177.5	1292.8	1537.3	1894.9	2537.6	3978.8	7020.3	9127.6	8189.2	7721.6
50°	948.0	954.4	1048.3	1265.1	1598.1	2213.0	3552.8	7079.0	10071.3	9581.3	8984.6
52.5°	749.4	759.0	830.6	1000.3	1281.1	1829.8	3092.7	6933.8	11173.1	11231.8	10390.5
55°	607.4	610.6	664.0	788.9	1001.4	1428.4	2537.6	6529.2	12358.1	13346.6	12273.7
57.5°	523.1	525.2	555.1	624.5	770.8	1077.2	1968.6	5763.7	13422.4	15824.4	14445.1
60°	475.1	476.1	493.2	533.8	610.6	826.3	1410.2	4683.4	14472.9	18581.9	17143.9
62.5°	445.2	445.2	456.9	479.3	516.7	634.1	1021.7	3378.8	15192.4	21380.0	20470.4
65°	416.3	416.3	424.9	440.9	461.2	518.8	754.8	2203.4	15174.3	23418.0	23816.2
67.5°	383.3	383.3	389.7	405.7	417.4	446.2	582.9	1443.3	13630.6	23373.1	25641.7
70°	343.8	343.8	352.3	366.2	375.8	393.9	460.1	987.5	10013.7	19956.9	22804.1
72.5°	304.3	305.3	310.7	324.5	332.0	342.7	382.2	691.8	6142.7	13588.9	15945.0
75°	260.5	262.6	268.0	281.8	288.2	292.5	322.4	493.2	3107.7	7326.7	8341.9
77.5°	210.3	214.6	217.8	232.7	237.0	243.4	265.8	356.6	1364.3	2632.6	2656.1
80°	153.7	159.1	168.7	182.6	185.8	190.0	202.8	253.0	618.1	1202.1	1305.6
82.5°	113.2	120.6	108.9	127.0	127.0	121.7	143.1	169.7	284.0	1190.3	1424.1
85°	61.9	63.0	56.6	65.1	69.4	68.3	75.8	83.3	137.7	794.3	818.8
87.5°	14.9	16.0	17.1	20.3	24.6	24.6	26.7	23.5	44.8	257.3	147.3
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)