

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: P452787

Luminaire Tested: **GALN-SA3D-730-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452787
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-730-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20995 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

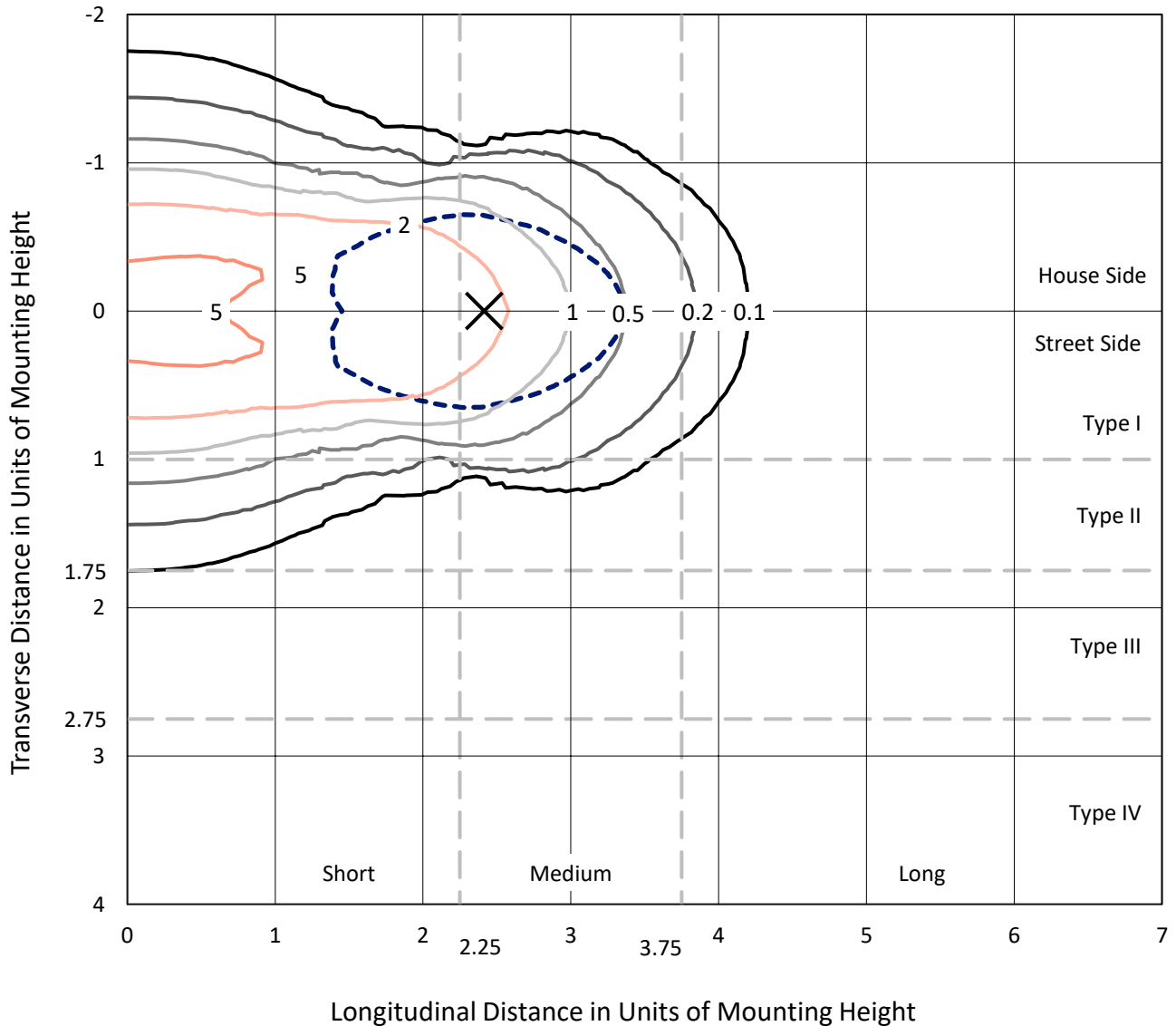
Input Watts (W): 184
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P452787
 CATALOG NUMBER: GALN-SA3D-730-U-T1

Iso-Footcandle Lines of Horizontal Illumination

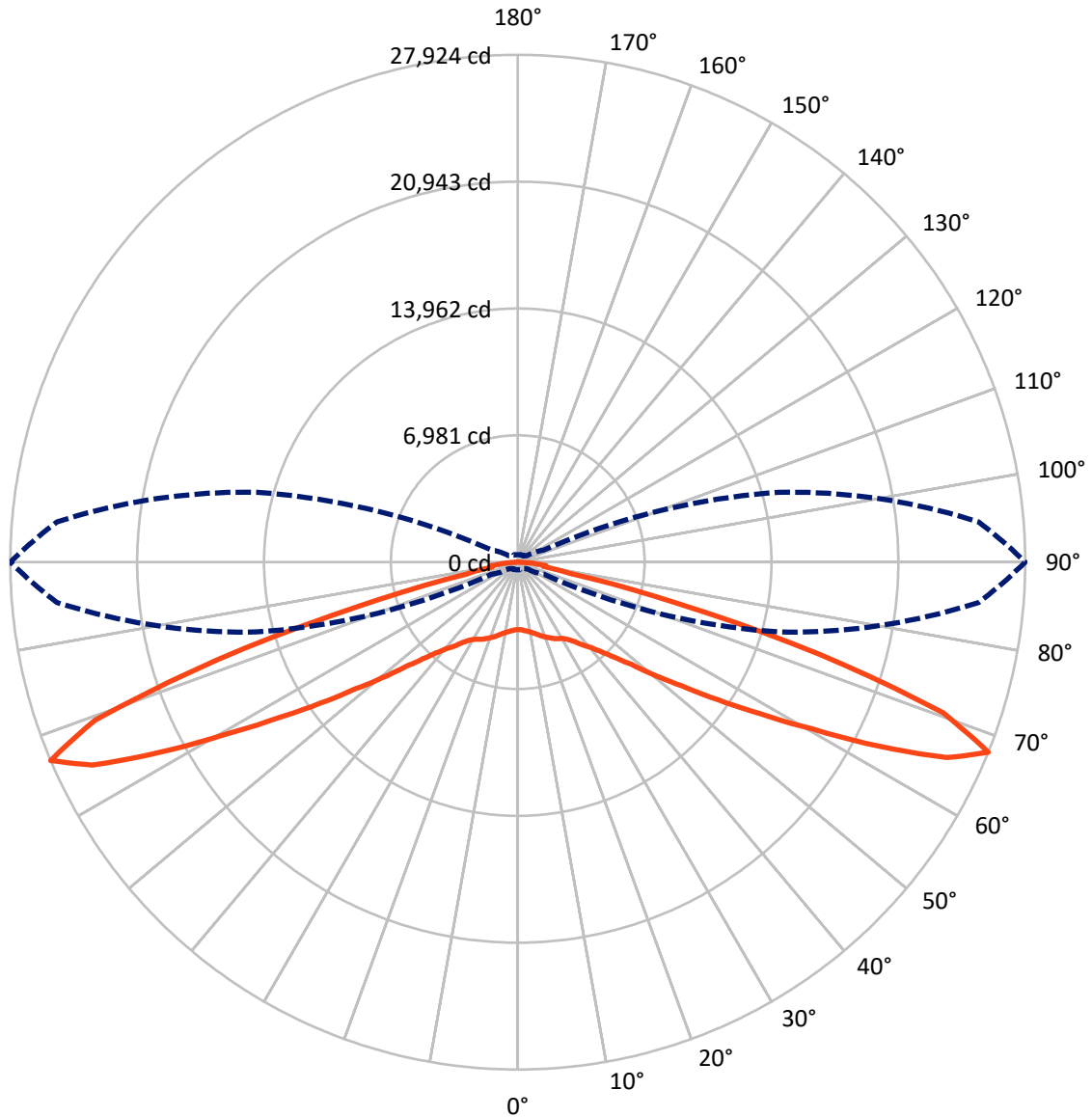
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type I - Short - N/A

REPORT NUMBER: P452787
CATALOG NUMBER: GALN-SA3D-730-U-T1

Luminous Intensity Polar Plot



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

REPORT NUMBER: P452787

CATALOG NUMBER: GALN-SA3D-730-U-T1

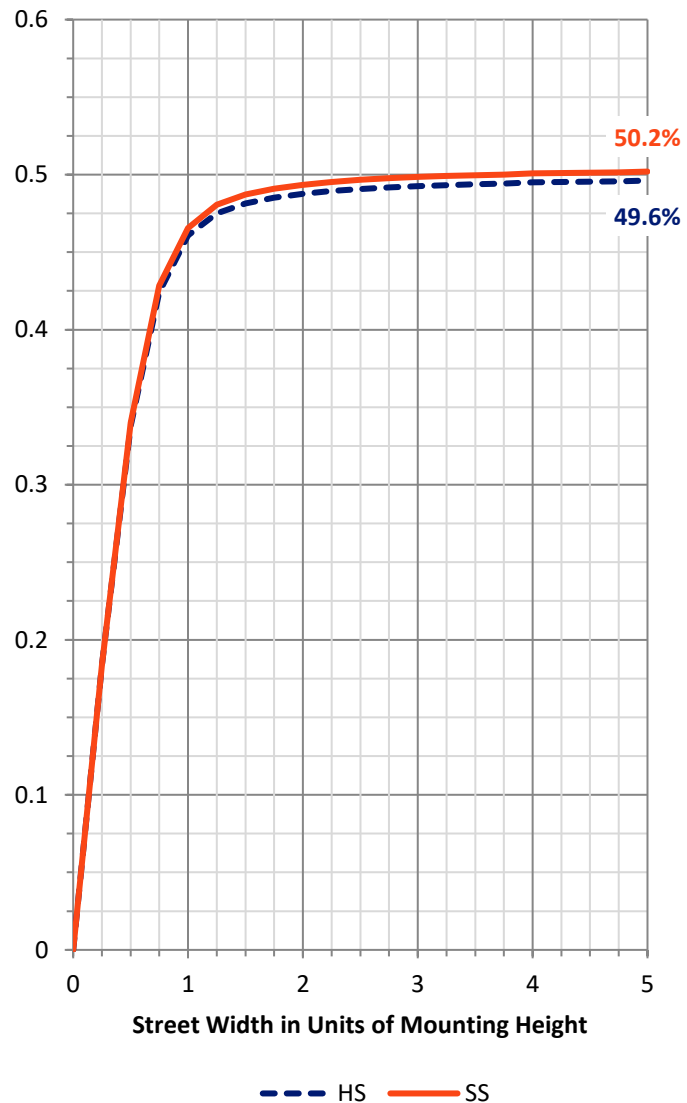
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10497.5	0.0	10497.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10497.5	0.0	10497.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	20995.0	0.0	20995.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	370.6	1.8
10°-20°	1185.6	5.6
20°-30°	1984.4	9.5
30°-40°	2688.3	12.8
40°-50°	3405.2	16.2
50°-60°	4254.0	20.3
60°-70°	5000.3	23.8
70°-80°	1912.9	9.1
80°-90°	193.8	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°	20995.0	100.0
0°-180°	20995.0	100.0



REPORT NUMBER: P452787

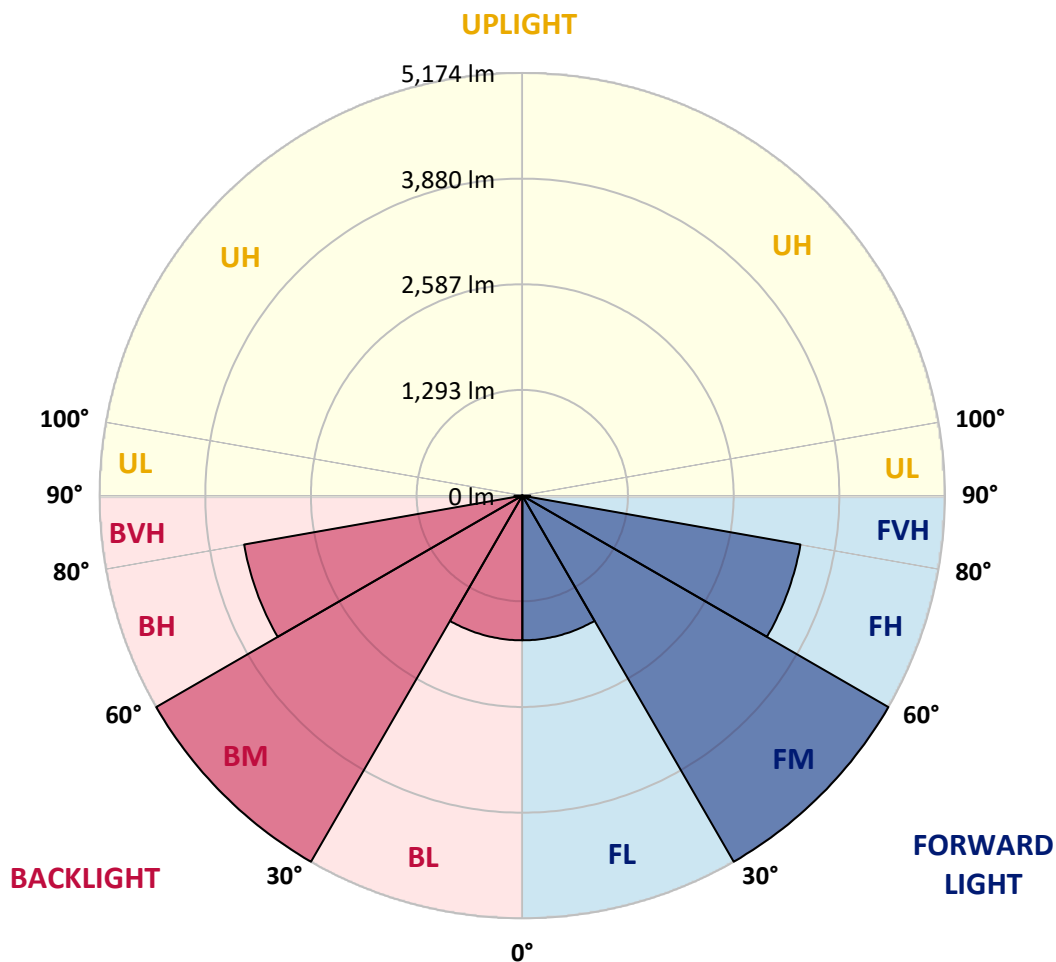
CATALOG NUMBER: GALN-SA3D-730-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1770.3	8.4			
FM (30°-60°)	5173.7	24.6			
FH (60°-80°)	3456.6	16.5			G2/5000
FVH (80°-90°)	96.9	0.5			G1/100
BL (0°-30°)	1770.3	8.4	B3/2500		
BM (30°-60°)	5173.7	24.6	B4/8500		
BH (60°-80°)	3456.6	16.5	B4/5000		G4/5000
BVH (80°-90°)	96.9	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: P452787
 CATALOG NUMBER: GALN-SA3D-730-U-T1

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3716.8	3716.8	3716.8	3716.8	3716.8	3716.8	3716.8	3716.8	3716.8	3716.8	3716.8
2.5°	3764.4	3762.1	3763.3	3762.1	3765.6	3763.3	3749.3	3737.7	3728.4	3729.6	3726.1
5°	3844.7	3845.8	3847.0	3841.2	3849.3	3844.7	3822.6	3804.0	3785.4	3778.4	3776.1
7.5°	3910.9	3916.7	3920.2	3926.0	3940.0	3940.0	3928.4	3901.6	3860.9	3837.7	3836.5
10°	3977.2	3981.8	3992.3	4010.9	4034.2	4056.2	4051.6	4015.6	3963.2	3923.7	3914.4
12.5°	4000.4	4006.3	4041.1	4094.6	4146.9	4189.9	4189.9	4160.9	4093.4	4033.0	4015.6
15°	3919.1	3929.5	3992.3	4106.2	4243.4	4337.6	4358.5	4317.8	4245.7	4152.7	4131.8
17.5°	3757.5	3783.0	3874.9	4043.5	4271.3	4466.6	4527.1	4507.3	4414.3	4295.7	4271.3
20°	3584.2	3612.1	3709.8	3933.0	4248.1	4542.2	4717.8	4722.4	4607.3	4435.2	4399.2
22.5°	3393.6	3414.5	3540.1	3801.6	4178.3	4559.6	4881.7	4961.9	4806.1	4574.8	4523.6
25°	3179.7	3202.9	3334.3	3616.8	4046.9	4539.9	5031.6	5208.4	5014.2	4723.6	4658.5
27.5°	2975.0	2984.3	3125.0	3412.2	3873.7	4488.7	5142.1	5435.1	5244.4	4846.8	4764.3
30°	2778.6	2800.7	2925.1	3208.7	3674.9	4388.7	5237.4	5693.2	5492.0	4975.8	4870.0
32.5°	2570.5	2597.2	2732.1	3019.2	3476.1	4238.8	5295.6	5975.7	5837.3	5185.1	5072.3
35°	2370.5	2387.9	2524.0	2803.0	3282.0	4064.4	5306.0	6294.2	6282.6	5502.5	5352.5
37.5°	2165.9	2191.5	2328.6	2596.0	3076.2	3879.5	5253.7	6632.5	6819.7	5943.1	5781.5
40°	1969.4	1991.5	2126.4	2396.1	2842.5	3654.0	5129.3	6941.8	7446.3	6396.5	6167.5
42.5°	1755.5	1761.3	1909.0	2183.3	2613.5	3392.4	4950.3	7217.3	8145.0	7004.5	6719.7
45°	1512.5	1527.6	1664.8	1934.5	2350.7	3099.4	4707.3	7445.2	9030.9	7847.4	7459.1
47.5°	1269.5	1282.3	1407.9	1674.1	2063.6	2763.5	4332.9	7645.1	9940.1	8918.2	8408.9
50°	1032.4	1039.3	1141.7	1377.7	1740.4	2410.0	3869.1	7709.1	10967.8	10434.2	9784.3
52.5°	816.1	826.6	904.5	1089.3	1395.1	1992.7	3368.0	7551.0	12167.6	12231.5	11315.4
55°	661.5	665.0	723.1	859.1	1090.5	1555.5	2763.5	7110.3	13458.0	14534.6	13366.2
57.5°	569.7	572.0	604.5	680.1	839.4	1173.0	2143.8	6276.8	14617.1	17232.9	15730.9
60°	517.3	518.5	537.1	581.3	665.0	899.8	1535.8	5100.2	15761.1	20235.9	18669.9
62.5°	484.8	484.8	497.6	522.0	562.7	690.6	1112.6	3679.6	16544.7	23283.0	22292.5
65°	453.4	453.4	462.7	480.1	502.2	565.0	821.9	2399.6	16524.9	25502.4	25936.0
67.5°	417.4	417.4	424.3	441.8	454.6	486.0	634.8	1571.8	14843.8	25453.5	27924.0
70°	374.4	374.4	383.7	398.8	409.2	429.0	501.1	1075.4	10905.0	21733.3	24833.9
72.5°	331.3	332.5	338.3	353.4	361.6	373.2	416.2	753.4	6689.5	14798.5	17364.3
75°	283.7	286.0	291.8	306.9	313.9	318.5	351.1	537.1	3384.3	7978.8	9084.4
77.5°	229.0	233.7	237.2	253.4	258.1	265.1	289.5	388.3	1485.8	2866.9	2892.5
80°	167.4	173.2	183.7	198.8	202.3	206.9	220.9	275.5	673.1	1309.1	1421.8
82.5°	123.2	131.4	118.6	138.3	138.3	132.5	155.8	184.9	309.2	1296.3	1550.9
85°	67.4	68.6	61.6	70.9	75.6	74.4	82.5	90.7	150.0	865.0	891.7
87.5°	16.3	17.4	18.6	22.1	26.7	26.7	29.1	25.6	48.8	280.2	160.4
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)