

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: P459312

Luminaire Tested: **GALN-SA7D-735-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459312
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-SA7D-735-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50105 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

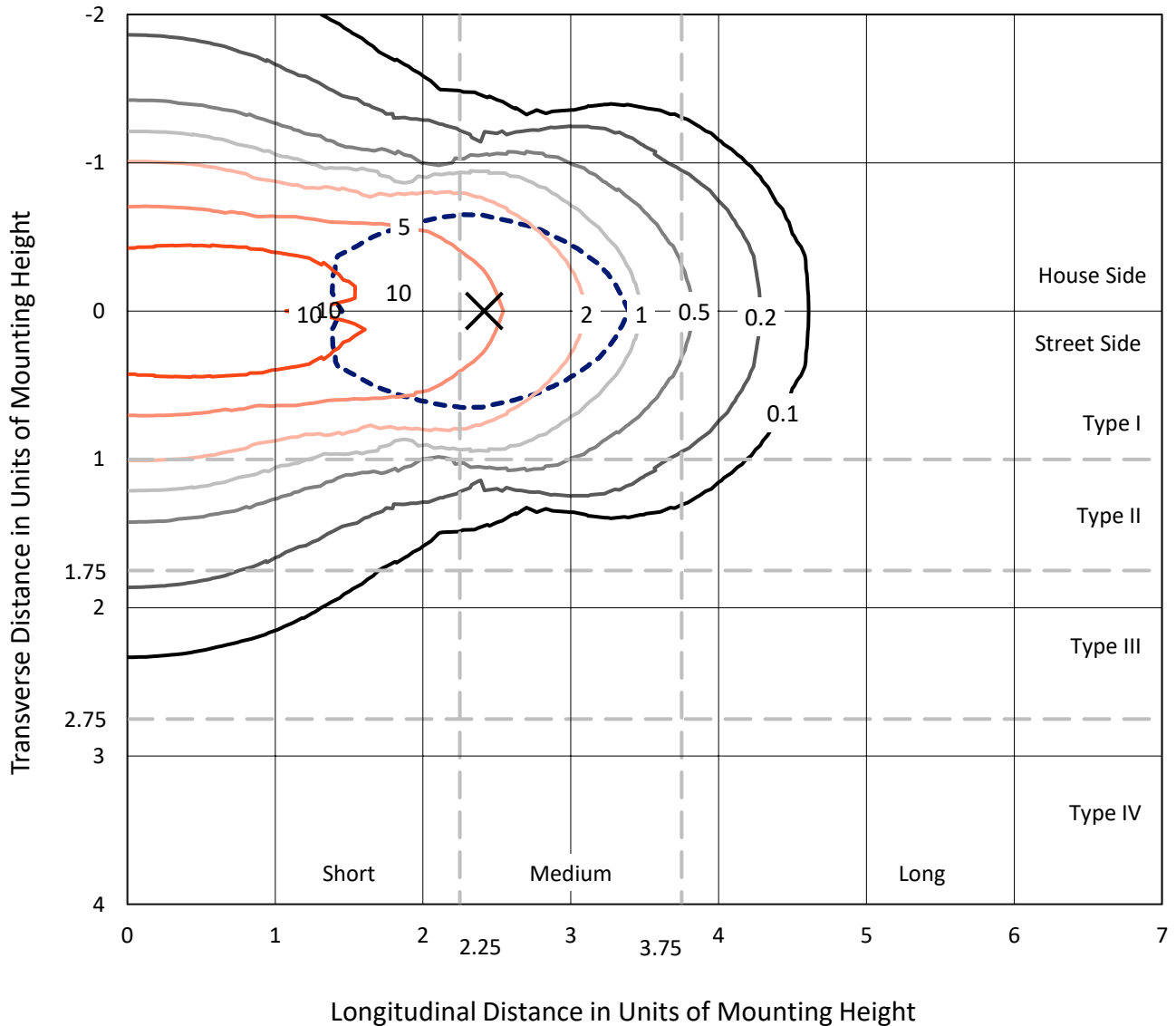
Input Watts (W): 433
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P459312
 CATALOG NUMBER: GALN-SA7D-735-U-T1

Iso-Footcandle Lines of Horizontal Illumination

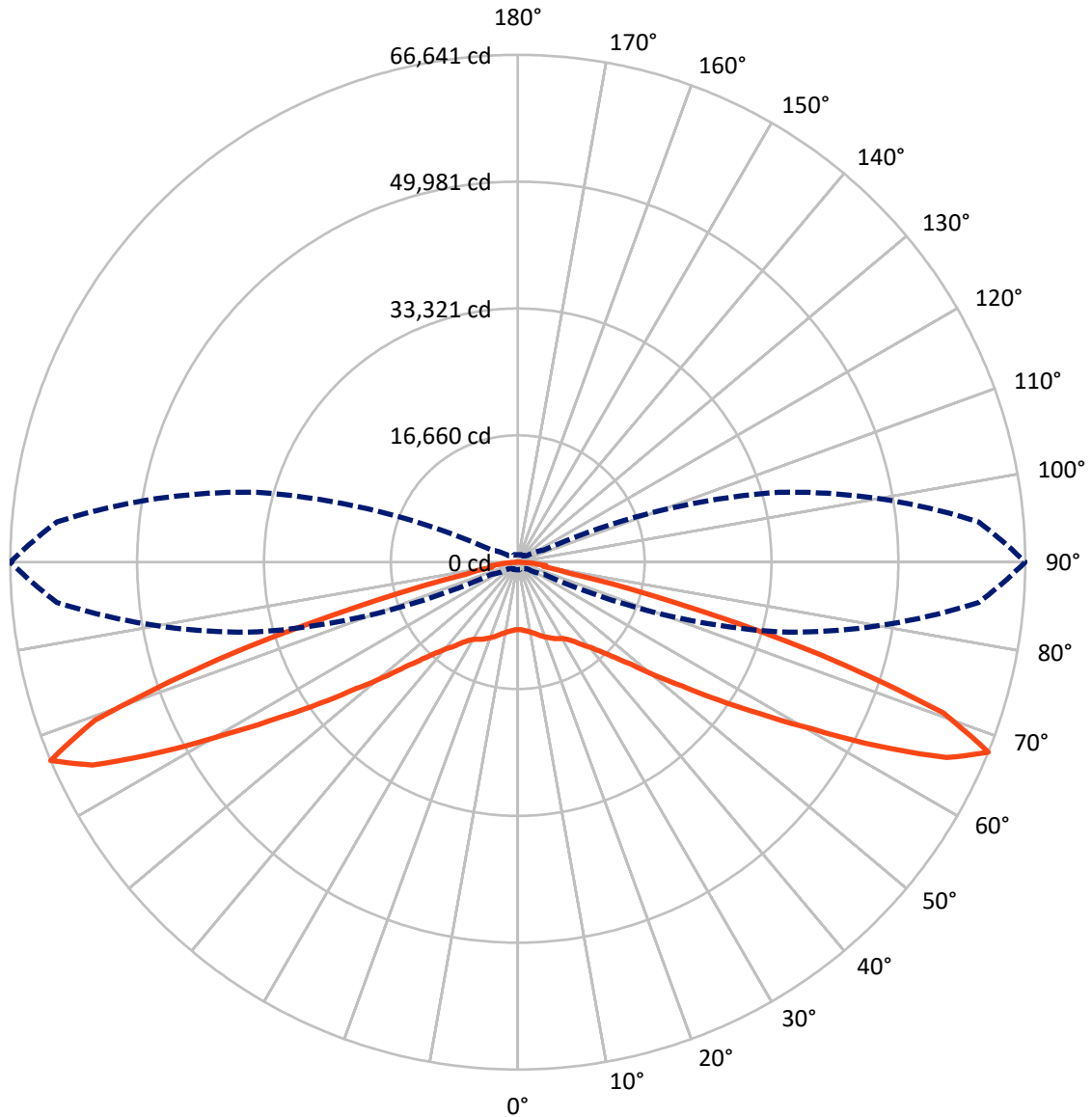
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.9 fc
 Type I - Short - N/A

REPORT NUMBER: P459312
CATALOG NUMBER: GALN-SA7D-735-U-T1

Luminous Intensity Polar Plot



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

REPORT NUMBER: P459312

CATALOG NUMBER: GALN-SA7D-735-U-T1

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	25052.5	0.0	25052.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	25052.5	0.0	25052.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	50105.0	0.0	50105.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	884.4	1.8
10°-20°	2829.5	5.6
20°-30°	4735.8	9.5
30°-40°	6415.7	12.8
40°-50°	8126.6	16.2
50°-60°	10152.1	20.3
60°-70°	11933.4	23.8
70°-80°	4565.1	9.1
80°-90°	462.5	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°	50105.0	100.0
0°-180°	50105.0	100.0

Coefficient of Utilization



REPORT NUMBER: P459312

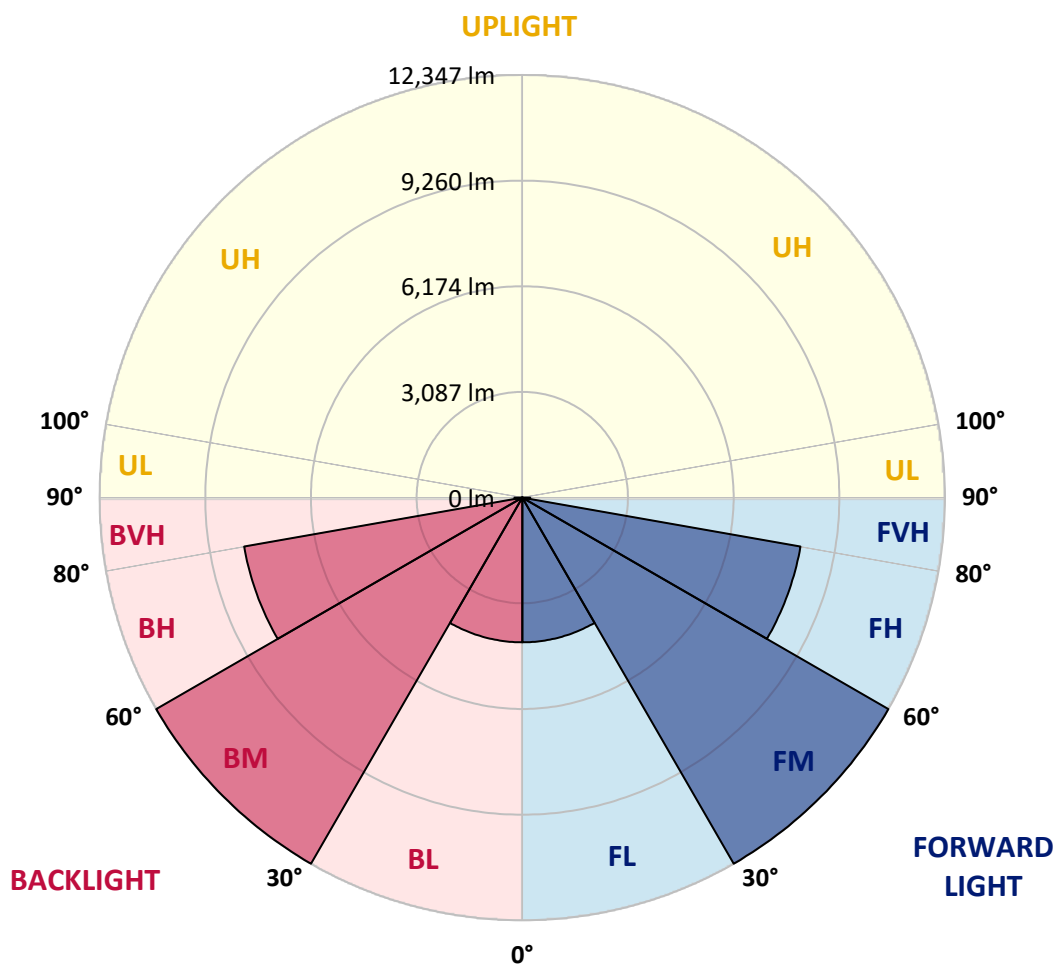
CATALOG NUMBER: GALN-SA7D-735-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4224.8	8.4			
FM	(30°-60°)	12347.2	24.6			
FH	(60°-80°)	8249.2	16.5			G4/12000
FVH	(80°-90°)	231.2	0.5			G3/500
BL	(0°-30°)	4224.8	8.4	B4/5000		
BM	(30°-60°)	12347.2	24.6	B5		
BH	(60°-80°)	8249.2	16.5	B5		G5
BVH	(80°-90°)	231.2	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type I Short





REPORT NUMBER: P459312
 CATALOG NUMBER: GALN-SA7D-735-U-T1

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	8870.1	8870.1	8870.1	8870.1	8870.1	8870.1	8870.1	8870.1	8870.1	8870.1	8870.1
2.5°	8983.9	8978.4	8981.1	8978.4	8986.7	8981.1	8947.8	8920.1	8897.9	8900.7	8892.3
5°	9175.3	9178.1	9180.9	9167.0	9186.4	9175.3	9122.6	9078.2	9033.8	9017.2	9011.6
7.5°	9333.5	9347.4	9355.7	9369.6	9402.9	9402.9	9375.1	9311.3	9214.2	9158.7	9155.9
10°	9491.6	9502.7	9527.7	9572.1	9627.6	9680.3	9669.2	9583.2	9458.3	9364.0	9341.8
12.5°	9547.1	9561.0	9644.2	9771.9	9896.7	9999.4	9999.4	9930.0	9769.1	9624.8	9583.2
15°	9352.9	9377.9	9527.7	9799.6	10127.0	10351.7	10401.7	10304.6	10132.6	9910.6	9860.6
17.5°	8967.3	9028.3	9247.5	9649.8	10193.6	10659.7	10804.0	10756.8	10534.9	10251.9	10193.6
20°	8553.8	8620.4	8853.5	9386.2	10138.1	10840.1	11259.0	11270.1	10995.4	10584.8	10498.8
22.5°	8098.8	8148.8	8448.4	9072.7	9971.6	10881.7	11650.2	11841.7	11469.9	10917.7	10795.7
25°	7588.3	7643.8	7957.3	8631.5	9658.1	10834.5	12008.1	12429.9	11966.5	11272.9	11117.5
27.5°	7100.0	7122.2	7457.9	8143.2	9244.7	10712.4	12271.7	12970.9	12515.9	11567.0	11370.0
30°	6631.1	6683.8	6980.7	7657.7	8770.3	10473.8	12499.2	13586.8	13106.8	11875.0	11622.5
32.5°	6134.5	6198.3	6520.1	7205.4	8295.8	10115.9	12637.9	14261.0	13930.9	12374.4	12105.2
35°	5657.2	5698.9	6023.5	6689.4	7832.5	9699.7	12662.9	15021.3	14993.5	13131.8	12773.9
37.5°	5168.9	5230.0	5557.4	6195.5	7341.4	9258.6	12538.1	15828.6	16275.3	14183.4	13797.7
40°	4700.0	4752.8	5074.6	5718.3	6783.7	8720.3	12241.2	16566.7	17770.8	15265.4	14718.8
42.5°	4189.5	4203.4	4555.8	5210.6	6237.1	8096.1	11813.9	17224.2	19438.3	16716.5	16036.7
45°	3609.7	3645.7	3973.1	4616.8	5610.1	7396.9	11234.0	17768.0	21552.5	18728.0	17801.3
47.5°	3029.8	3060.3	3359.9	3995.3	4924.8	6595.0	10340.6	18245.3	23722.2	21283.4	20068.1
50°	2463.8	2480.4	2724.6	3287.8	4153.5	5751.6	9233.6	18397.9	26174.8	24901.3	23350.4
52.5°	1947.7	1972.7	2158.6	2599.7	3329.4	4755.5	8037.8	18020.5	29038.1	29190.7	27004.4
55°	1578.7	1587.0	1725.8	2050.4	2602.5	3712.3	6595.0	16969.0	32117.9	34687.1	31898.7
57.5°	1359.5	1365.1	1442.8	1623.1	2003.2	2799.5	5116.2	14979.6	34884.1	41126.7	37542.0
60°	1234.7	1237.4	1281.8	1387.3	1587.0	2147.5	3665.1	12171.8	37614.2	48293.3	44556.0
62.5°	1157.0	1157.0	1187.5	1245.8	1342.9	1648.1	2655.2	8781.4	39484.2	55565.3	53201.4
65°	1082.1	1082.1	1104.3	1145.9	1198.6	1348.4	1961.6	5726.6	39437.0	60861.9	61896.8
67.5°	996.1	996.1	1012.7	1054.3	1084.8	1159.7	1514.9	3751.2	35425.1	60745.4	66641.2
70°	893.4	893.4	915.6	951.7	976.6	1023.8	1195.8	2566.4	26025.0	51866.9	59266.6
72.5°	790.7	793.5	807.4	843.5	862.9	890.6	993.3	1797.9	15964.6	35316.9	41440.3
75°	677.0	682.5	696.4	732.5	749.1	760.2	837.9	1281.8	8076.6	19041.5	21680.1
77.5°	546.6	557.7	566.0	604.8	615.9	632.6	690.9	926.7	3545.8	6842.0	6903.0
80°	399.5	413.4	438.4	474.4	482.8	493.9	527.2	657.6	1606.4	3124.1	3393.2
82.5°	294.1	313.5	283.0	330.2	330.2	316.3	371.8	441.1	738.0	3093.6	3701.2
85°	160.9	163.7	147.0	169.2	180.3	177.6	197.0	216.4	357.9	2064.2	2128.1
87.5°	38.8	41.6	44.4	52.7	63.8	63.8	69.4	61.0	116.5	668.7	382.9
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)