

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: P459064

Luminaire Tested: **GALN-SA5D-735-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459064
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-SA5D-735-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 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: 37851 lumens
Efficiency: N/A
Efficacy: 122.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

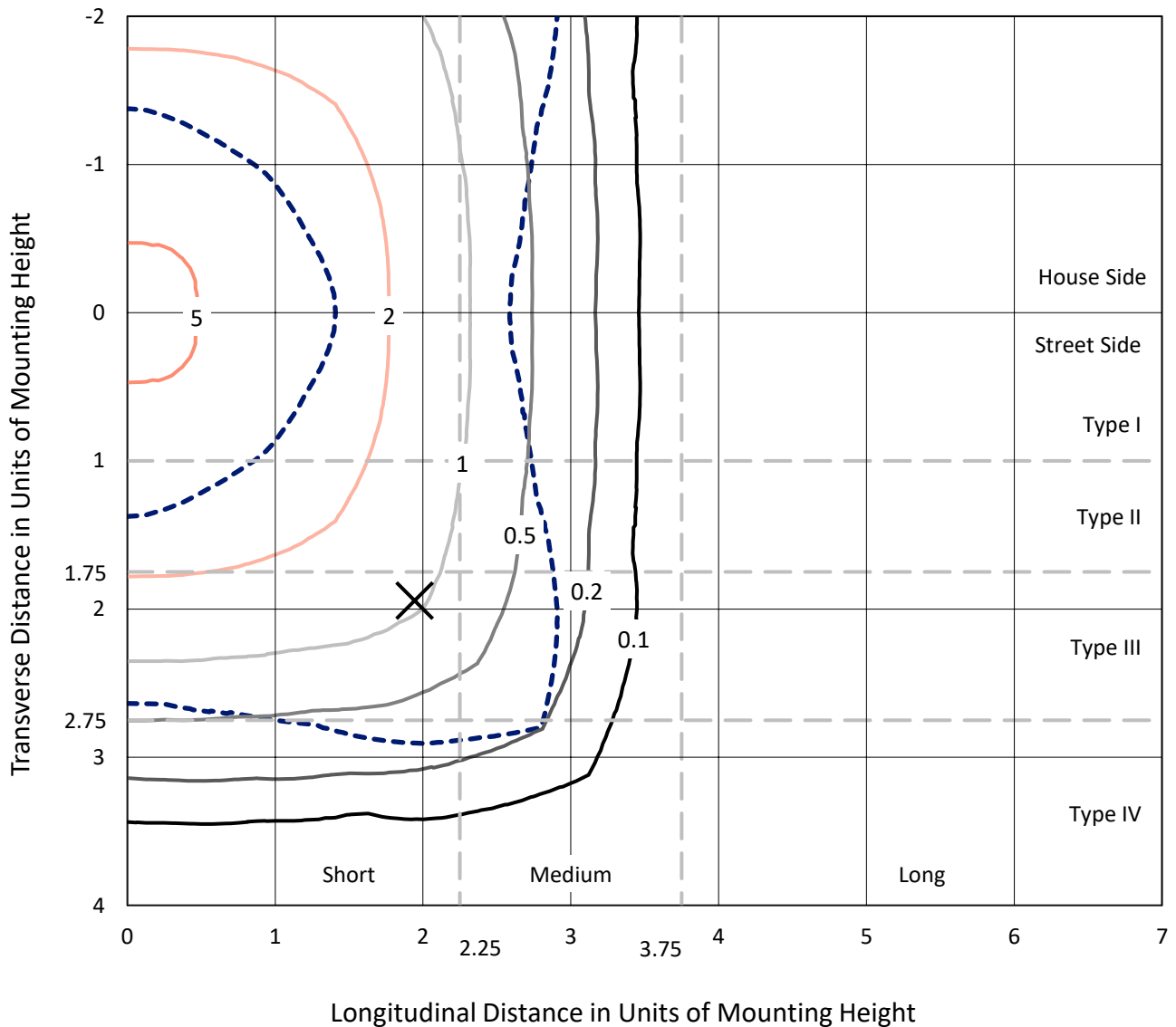
Input Watts (W): 309
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P459064
 CATALOG NUMBER: GALN-SA5D-735-U-5MQ

Iso-Footcandle Lines of Horizontal Illumination

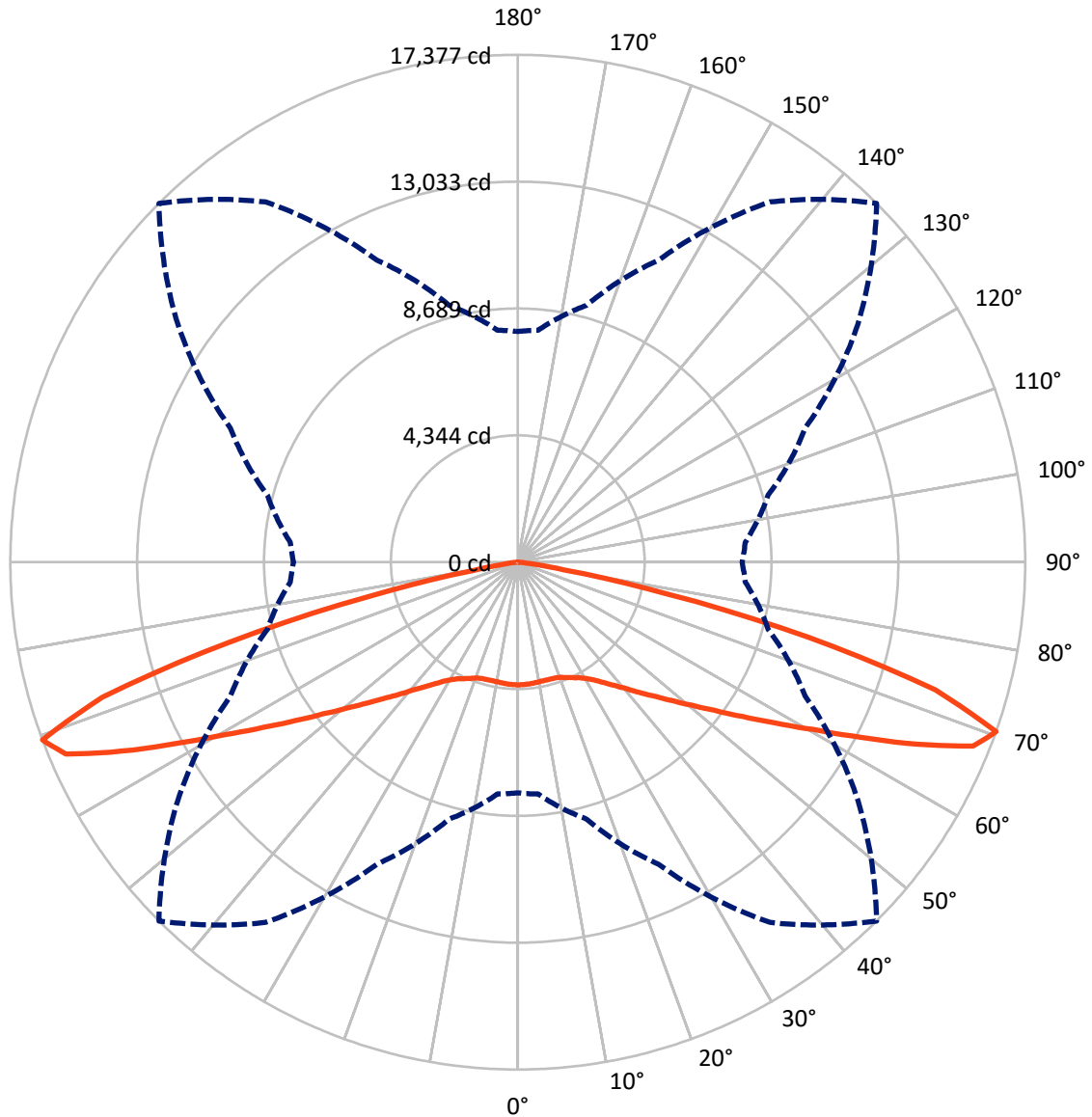
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type V - Short - N/A

REPORT NUMBER: P459064
CATALOG NUMBER: GALN-SA5D-735-U-5MQ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P459064

CATALOG NUMBER: GALN-SA5D-735-U-5MQ

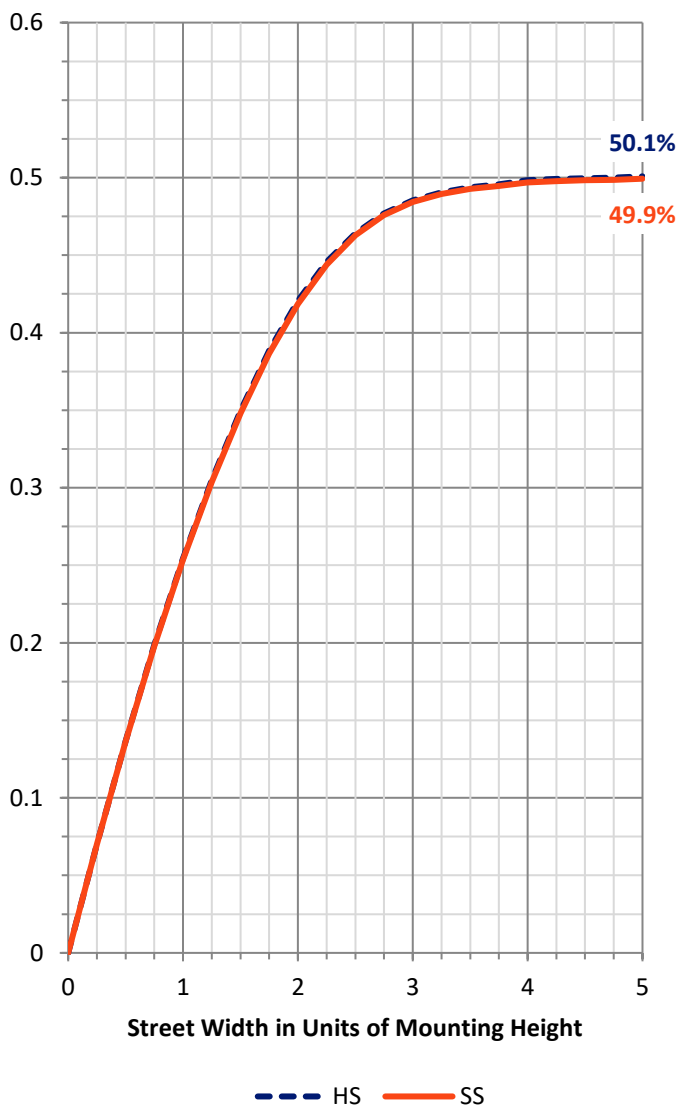
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18925.5	0.0	18925.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18925.5	0.0	18925.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	37851.0	0.0	37851.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	398.6	1.1
10°-20°	1169.6	3.1
20°-30°	2000.4	5.3
30°-40°	3175.0	8.4
40°-50°	5122.2	13.5
50°-60°	8333.9	22.0
60°-70°	12081.2	31.9
70°-80°	5358.8	14.2
80°-90°	211.4	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°	37851.0	100.0
0°-180°	37851.0	100.0

Coefficient of Utilization



REPORT NUMBER: P459064

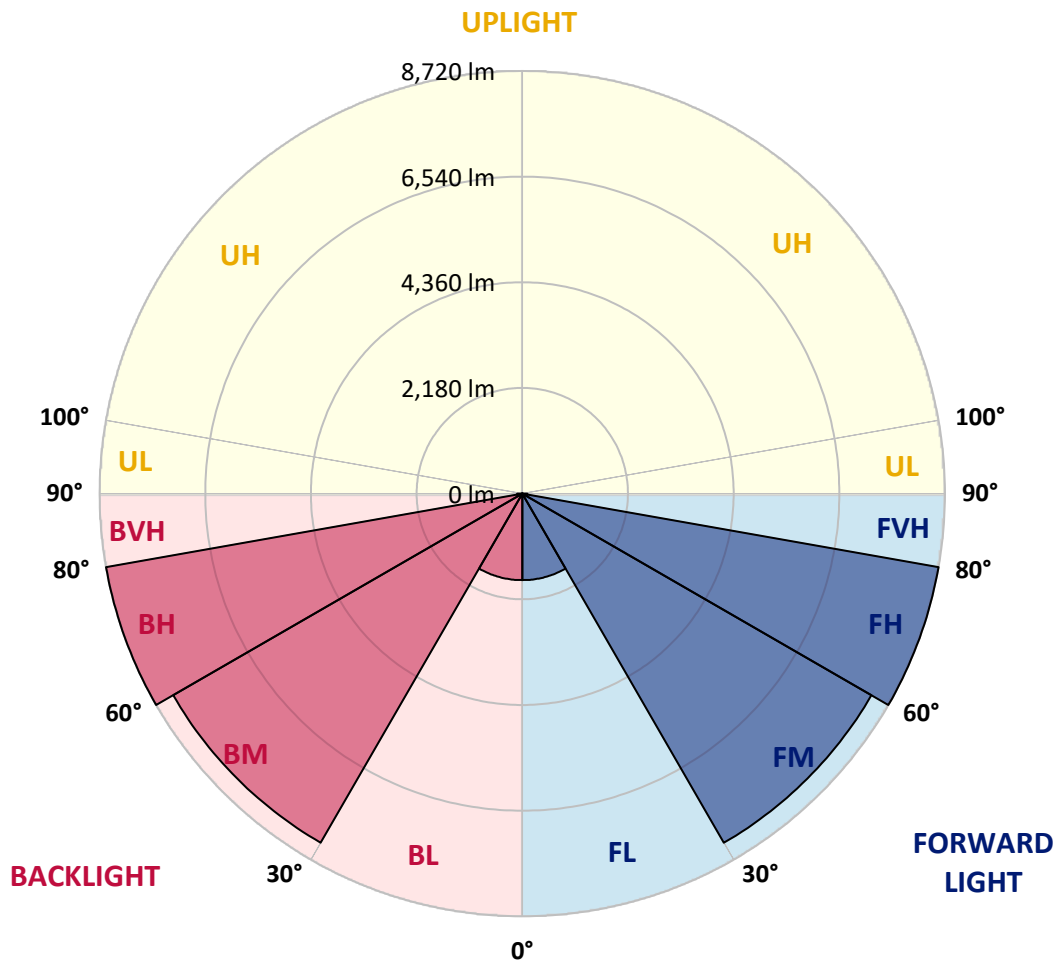
CATALOG NUMBER: GALN-SA5D-735-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1784.3	4.7			
FM (30°-60°)	8315.6	22.0			
FH (60°-80°)	8720.0	23.0			G4/12000
FVH (80°-90°)	105.7	0.3			G2/225
BL (0°-30°)	1784.3	4.7	B3/2500		
BM (30°-60°)	8315.6	22.0	B4/8500		
BH (60°-80°)	8720.0	23.0	B5		G4/12000
BVH (80°-90°)	105.7	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





REPORT NUMBER: P459064

CATALOG NUMBER: GALN-SA5D-735-U-5MQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4203.2	4203.2	4203.2	4203.2	4203.2	4203.2	4203.2	4203.2	4203.2	4203.2	4203.2
2.5°	4203.2	4207.2	4201.2	4197.2	4195.2	4195.2	4193.2	4195.2	4207.2	4209.2	4203.2
5°	4191.2	4195.2	4193.2	4189.2	4187.2	4187.2	4185.2	4183.2	4193.2	4197.2	4195.2
7.5°	4175.2	4177.2	4175.2	4173.3	4175.2	4173.3	4167.3	4163.3	4171.3	4171.3	4169.3
10°	4147.3	4151.3	4149.3	4151.3	4155.3	4155.3	4147.3	4139.3	4141.3	4137.3	4137.3
12.5°	4113.4	4119.4	4121.4	4129.4	4139.3	4151.3	4133.4	4115.4	4111.4	4109.4	4107.4
15°	4091.5	4097.4	4105.4	4113.4	4131.4	4157.3	4131.4	4103.4	4095.5	4087.5	4083.5
17.5°	4085.5	4093.5	4105.4	4117.4	4141.3	4167.3	4145.3	4117.4	4097.4	4085.5	4081.5
20°	4101.4	4107.4	4125.4	4147.3	4181.2	4207.2	4185.2	4155.3	4125.4	4107.4	4101.4
22.5°	4133.4	4143.3	4165.3	4205.2	4253.0	4290.9	4261.0	4211.2	4163.3	4139.3	4131.4
25°	4203.2	4211.2	4237.1	4290.9	4346.8	4382.7	4350.8	4292.9	4227.1	4195.2	4185.2
27.5°	4308.9	4320.9	4348.8	4412.6	4458.5	4478.5	4456.5	4416.6	4368.7	4334.8	4326.9
30°	4458.5	4472.5	4514.4	4582.2	4612.1	4624.1	4614.1	4588.2	4554.3	4518.4	4510.4
32.5°	4660.0	4668.0	4715.9	4779.7	4807.6	4811.6	4799.6	4787.7	4731.8	4672.0	4668.0
35°	4885.4	4899.4	4957.2	5033.0	5059.0	5061.0	5037.0	5019.1	4953.2	4905.4	4905.4
37.5°	5184.6	5190.6	5246.5	5332.3	5360.2	5352.2	5340.2	5324.3	5254.5	5192.6	5194.6
40°	5535.7	5547.7	5595.6	5695.3	5695.3	5685.4	5693.3	5681.4	5611.5	5551.7	5553.7
42.5°	5952.7	5958.7	6016.5	6122.2	6114.3	6094.3	6102.3	6086.3	6042.4	5974.6	5950.7
45°	6397.5	6421.5	6521.2	6622.9	6607.0	6543.1	6575.1	6571.1	6531.2	6429.4	6435.4
47.5°	6934.1	6974.0	7069.8	7191.5	7173.5	7073.8	7109.7	7133.6	7077.8	6966.1	6946.1
50°	7538.6	7564.5	7706.2	7819.9	7803.9	7698.2	7780.0	7784.0	7644.3	7486.7	7486.7
52.5°	8182.9	8208.9	8400.4	8577.9	8587.9	8434.3	8500.1	8496.1	8268.7	8061.2	8021.3
55°	8905.1	8917.0	9164.4	9425.7	9481.6	9332.0	9339.9	9260.2	8964.9	8723.5	8701.6
57.5°	9651.1	9695.0	9968.3	10307.5	10473.0	10381.3	10339.4	10125.9	9840.7	9563.4	9549.4
60°	10477.0	10479.0	10834.1	11235.1	11570.2	11632.0	11460.5	11175.2	10806.2	10439.1	10423.2
62.5°	11049.5	11135.3	11584.2	12262.4	12862.9	13210.0	12757.1	12158.7	11432.6	10840.1	10780.2
65°	11167.2	11225.1	11909.3	13058.4	14285.2	15033.3	13986.0	12713.3	11474.4	10684.5	10644.6
67.5°	10215.7	10277.5	11199.2	12962.6	15282.6	16816.7	14783.9	12445.9	10764.3	9786.8	9709.0
70°	7901.7	7971.5	9110.5	11410.6	15061.2	17377.2	14215.4	10856.0	8877.1	7821.9	7680.2
72.5°	4201.2	4458.5	5432.0	7831.8	12224.5	14961.5	11656.0	7921.6	5725.3	4679.9	4492.4
75°	1534.0	1566.0	2108.6	3473.1	7111.7	10259.6	7385.0	3778.3	2172.4	1677.7	1591.9
77.5°	634.4	632.4	694.2	1049.3	2583.3	5254.5	2882.6	1109.1	692.2	640.4	632.4
80°	375.0	375.0	412.9	436.9	680.2	1585.9	760.0	494.7	414.9	379.0	385.0
82.5°	167.6	177.5	261.3	275.3	329.2	434.9	367.1	315.2	271.3	187.5	169.6
85°	91.8	79.8	137.6	143.6	157.6	161.6	173.6	171.6	157.6	91.8	93.8
87.5°	18.0	21.9	39.9	29.9	33.9	29.9	39.9	55.9	57.9	31.9	25.9
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)