

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: P533345

Luminaire Tested: **GALN-SA8D-735-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533345
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-735-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39976 lumens
Efficiency: N/A
Efficacy: 81.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

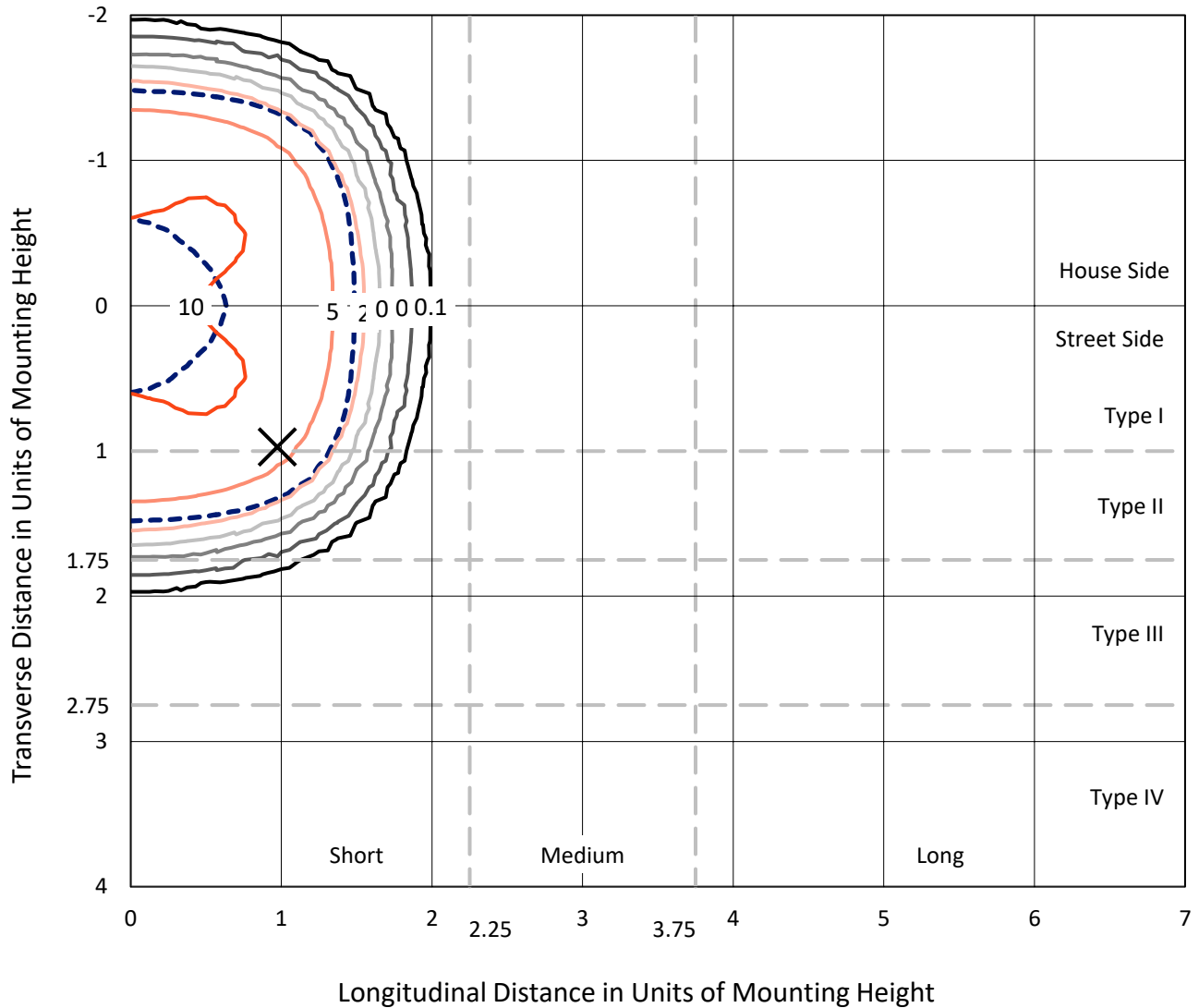
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P533345
 CATALOG NUMBER: GALN-SA8D-735-U-5NQ-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

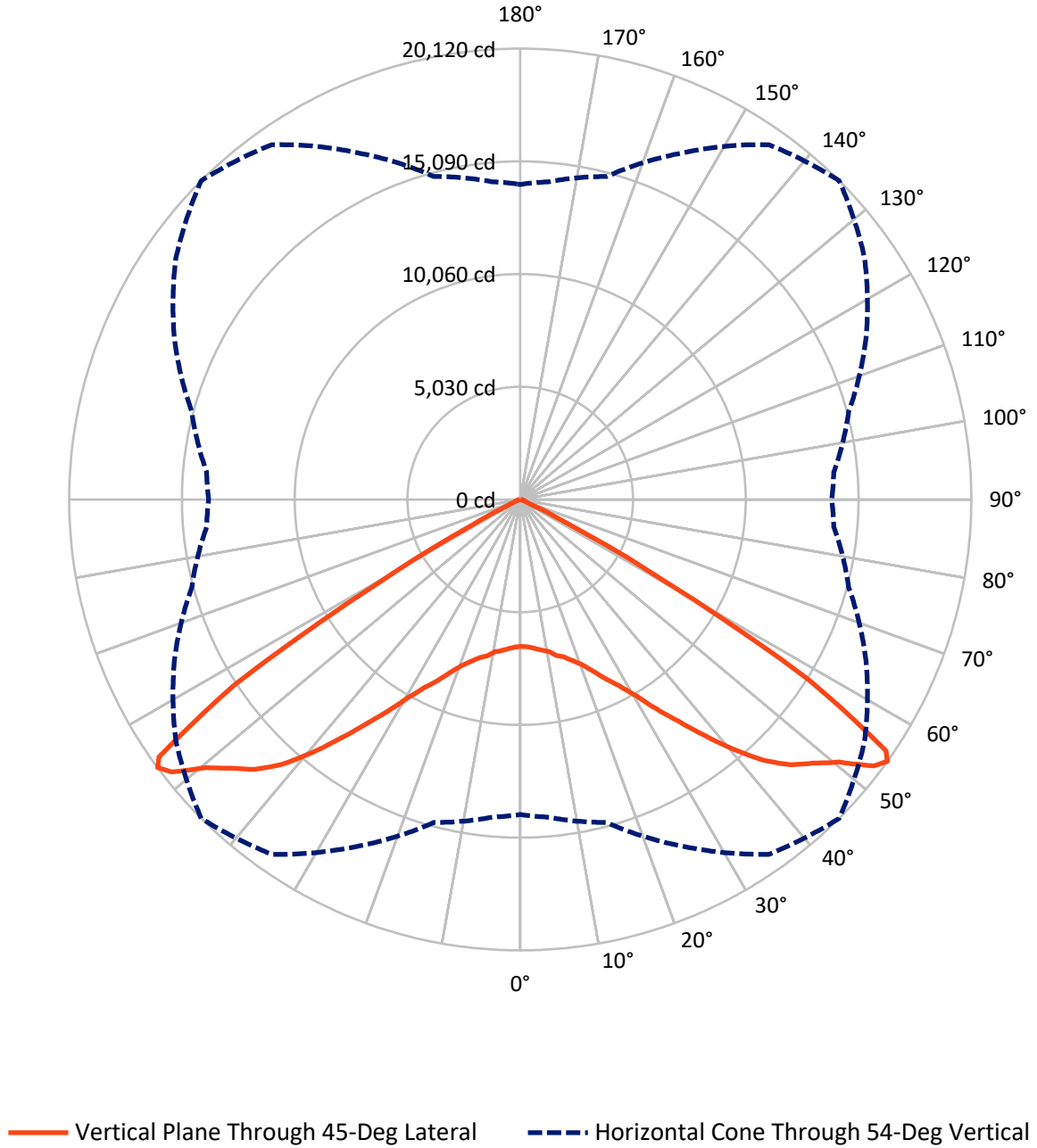
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 fc
 Type V - Short - N/A

REPORT NUMBER: P533345
CATALOG NUMBER: GALN-SA8D-735-U-5NQ-GRSBK

Luminous Intensity Polar Plot



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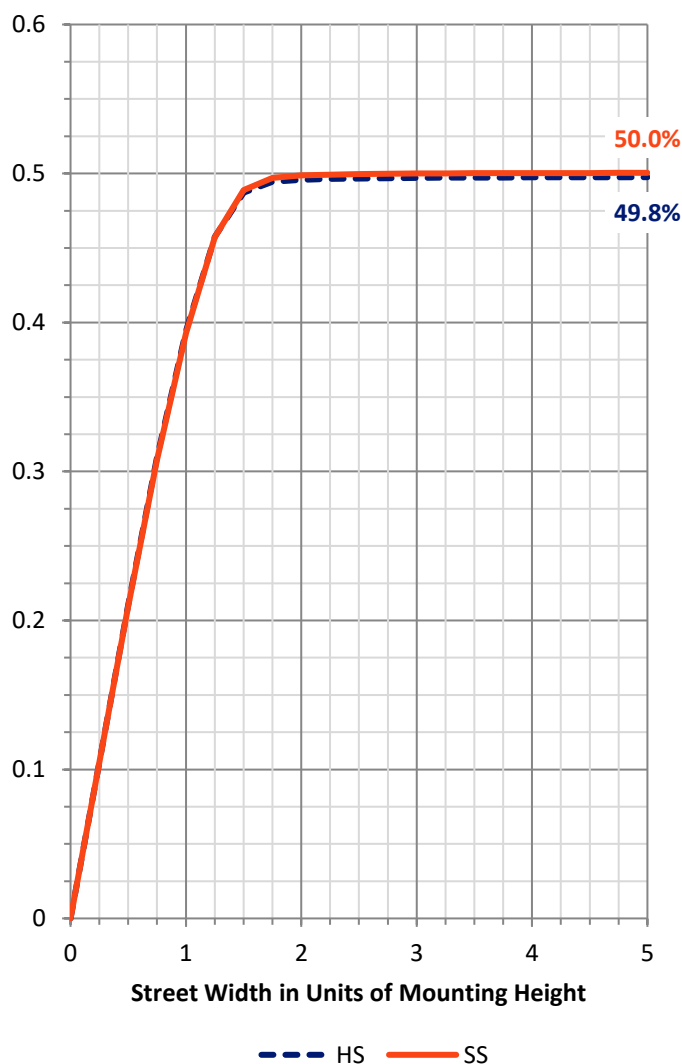
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19988.0	0.0	19988.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19988.0	0.0	19988.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	39976.0	0.0	39976.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	641.6	1.6
10°-20°	2077.6	5.2
20°-30°	4072.0	10.2
30°-40°	7322.3	18.3
40°-50°	12534.4	31.4
50°-60°	12128.2	30.3
60°-70°	1038.2	2.6
70°-80°	123.1	0.3
80°-90°	38.6	0.1
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°	39976.0	100.0
0°-180°	39976.0	100.0

Coefficient of Utilization



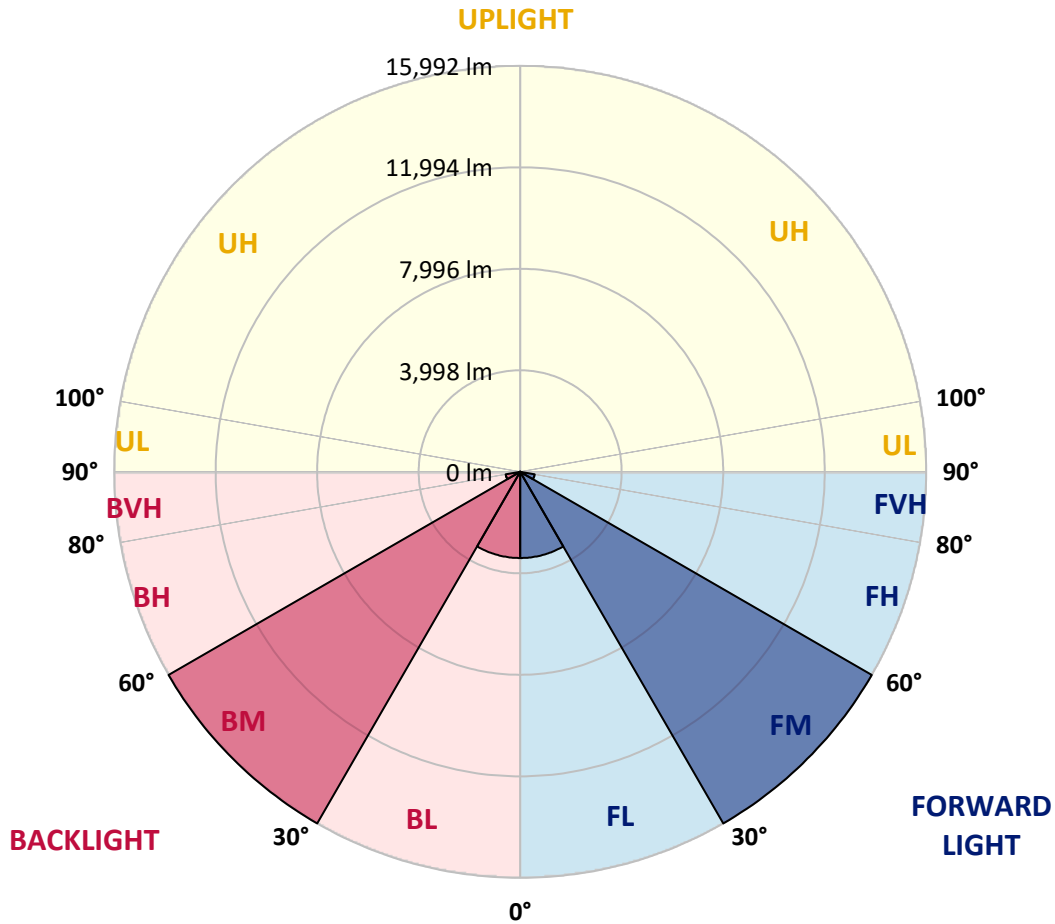
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 CATALOG NUMBER: GALN-SA8D-735-U-5NQ-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3395.6	8.5			
FM (30°-60°)	15992.5	40.0			
FH (60°-80°)	580.6	1.5			G0/660
FVH (80°-90°)	19.3	0.0			G1/100
BL (0°-30°)	3395.6	8.5	B4/5000		
BM (30°-60°)	15992.5	40.0	B5		
BH (60°-80°)	580.6	1.5	B2/1000		G0/660
BVH (80°-90°)	19.3	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6554.8	6554.8	6554.8	6554.8	6554.8	6554.8	6554.8	6554.8	6554.8	6554.8	6554.8
2.5°	6586.5	6624.5	6599.2	6618.2	6618.2	6586.5	6605.5	6529.5	6580.2	6542.2	6548.5
5°	6687.8	6681.5	6681.5	6687.8	6662.5	6675.1	6649.8	6624.5	6605.5	6580.2	6656.1
7.5°	6814.5	6814.5	6770.1	6782.8	6770.1	6789.1	6738.5	6687.8	6668.8	6649.8	6637.1
10°	6934.8	6922.1	6903.1	6960.1	6915.8	6890.5	6865.1	6833.5	6763.8	6738.5	6713.1
12.5°	7112.1	7105.8	7080.5	7137.5	7112.1	7137.5	7042.5	6960.1	6947.5	6865.1	6909.5
15°	7321.1	7378.1	7333.8	7333.8	7321.1	7289.5	7251.5	7213.5	7099.5	7067.8	7074.1
17.5°	7593.5	7574.5	7580.8	7580.8	7644.1	7561.8	7485.8	7390.8	7333.8	7314.8	7251.5
20°	7853.1	7878.4	7872.1	7916.4	7954.4	7865.8	7783.5	7770.8	7612.5	7637.8	7549.1
22.5°	8309.1	8290.1	8321.8	8353.4	8328.1	8315.4	8239.4	8144.4	8005.1	7941.8	7929.1
25°	8790.4	8758.8	8701.8	8777.8	8815.8	8872.8	8727.1	8676.4	8461.1	8366.1	8372.4
27.5°	9202.1	9246.4	9309.7	9341.4	9436.4	9417.4	9316.1	9151.4	8986.8	8879.1	8809.4
30°	9765.7	9791.1	9898.7	9943.1	10107.7	10152.1	9993.7	9803.7	9512.4	9373.1	9290.7
32.5°	10285.0	10462.4	10456.0	10677.7	10943.7	11127.4	10842.4	10551.0	10259.7	10095.1	9949.4
35°	11127.4	11095.7	11279.4	11513.7	11944.3	12153.3	11843.0	11507.3	11064.0	10798.0	10684.0
37.5°	11912.7	11925.3	12172.3	12546.0	13040.0	13363.0	13090.6	12539.7	12083.7	11741.7	11583.3
40°	13052.6	13078.0	13331.3	13755.6	14312.9	14661.3	14344.6	13787.3	13179.3	12913.3	12913.3
42.5°	14388.9	14496.6	14661.3	15028.6	15528.9	15915.2	15630.2	15193.2	14578.9	14236.9	14287.6
45°	15763.2	15813.9	15921.6	16466.2	16700.5	16890.5	16624.5	16421.9	16010.2	15592.2	15522.6
47.5°	17048.9	17067.9	17384.5	17555.5	17739.2	17580.8	17751.8	17485.8	17023.5	16618.2	16535.9
50°	17618.8	17587.2	18036.8	18556.2	18695.5	18416.8	18271.2	18093.8	17390.9	16903.2	16687.9
52.5°	15959.6	16143.2	16979.2	18423.2	19512.5	19746.8	18898.1	18081.2	16770.2	15820.2	15674.6
54°	14059.6	14230.6	14920.9	17061.5	19328.8	20120.4	18752.5	17017.2	15167.9	14040.6	13894.9
55°	12178.7	11988.7	13242.6	15427.6	18467.5	19791.1	18176.2	15642.9	13527.6	12495.3	12292.7
57.5°	6592.8	6624.5	7682.1	9746.7	12976.6	15174.2	13401.0	10582.7	7992.4	6833.5	6732.1
60°	2089.9	2140.6	2602.9	3939.2	6200.2	7403.5	6345.8	4249.5	2938.6	2355.9	2260.9
62.5°	652.3	677.6	741.0	1102.0	1697.3	2425.6	1899.9	1140.0	848.6	779.0	791.6
65°	399.0	399.0	405.3	430.7	506.7	589.0	570.0	500.3	481.3	468.7	462.3
67.5°	259.7	253.3	266.0	285.0	297.7	304.0	323.0	342.0	335.7	323.0	323.0
70°	158.3	152.0	164.7	190.0	196.3	209.0	228.0	253.3	247.0	234.3	240.7
72.5°	88.7	88.7	95.0	114.0	133.0	145.7	164.7	183.7	190.0	183.7	183.7
75°	31.7	38.0	50.7	69.7	82.3	101.3	120.3	139.3	158.3	145.7	139.3
77.5°	12.7	12.7	25.3	44.3	63.3	82.3	114.0	133.0	145.7	133.0	120.3
80°	6.3	6.3	19.0	38.0	57.0	76.0	95.0	114.0	120.3	107.7	95.0
82.5°	6.3	6.3	19.0	38.0	57.0	69.7	101.3	114.0	126.7	114.0	95.0
85°	0.0	6.3	19.0	38.0	50.7	57.0	57.0	38.0	31.7	19.0	19.0
87.5°	0.0	0.0	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)