

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: P459414

Luminaire Tested: **GALN-SA8D-735-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459414
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8D-735-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 60904 lumens
Efficiency: N/A
Efficacy: 123.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

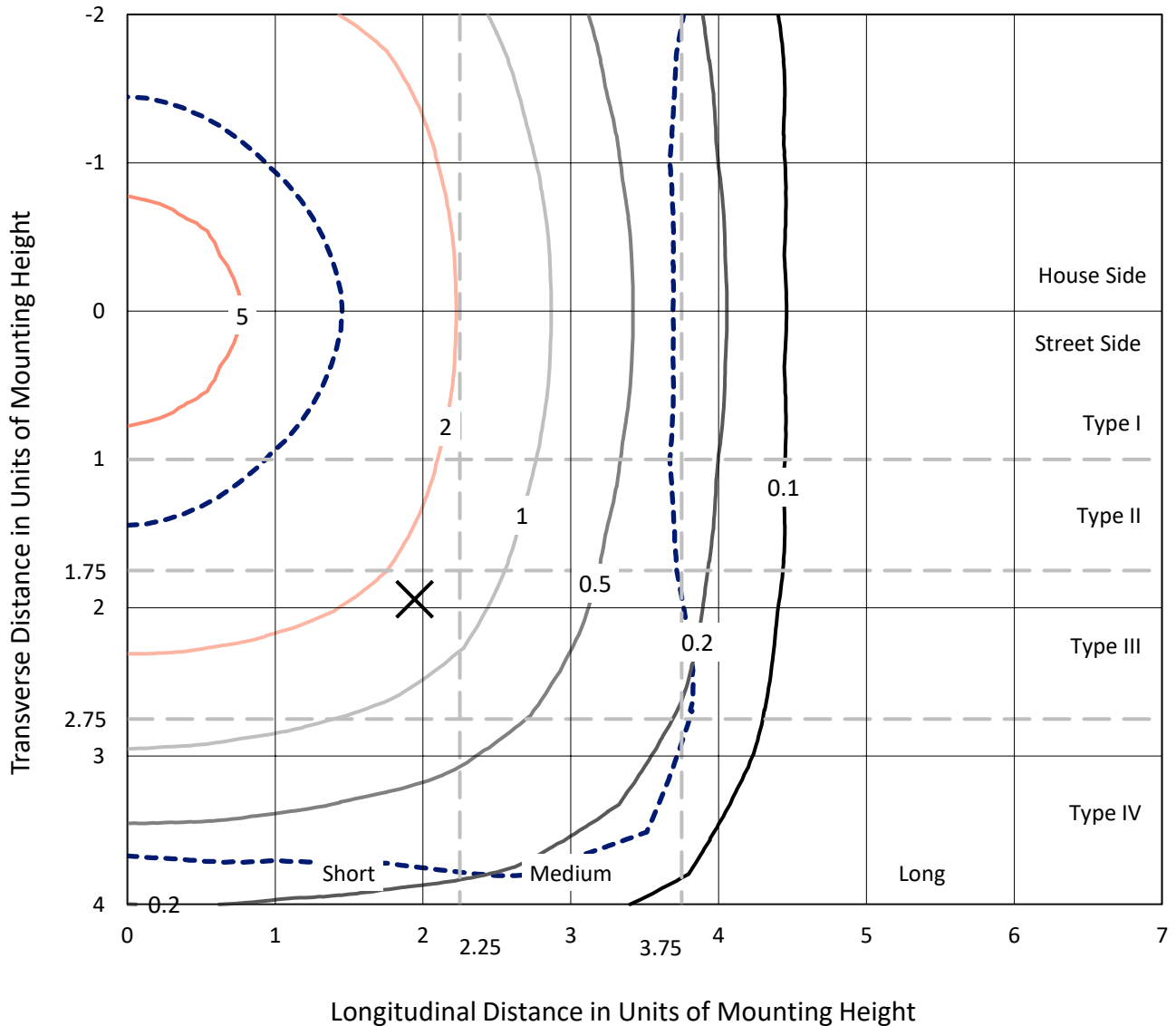
Input Watts (W): 493
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P459414
 CATALOG NUMBER: GALN-SA8D-735-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

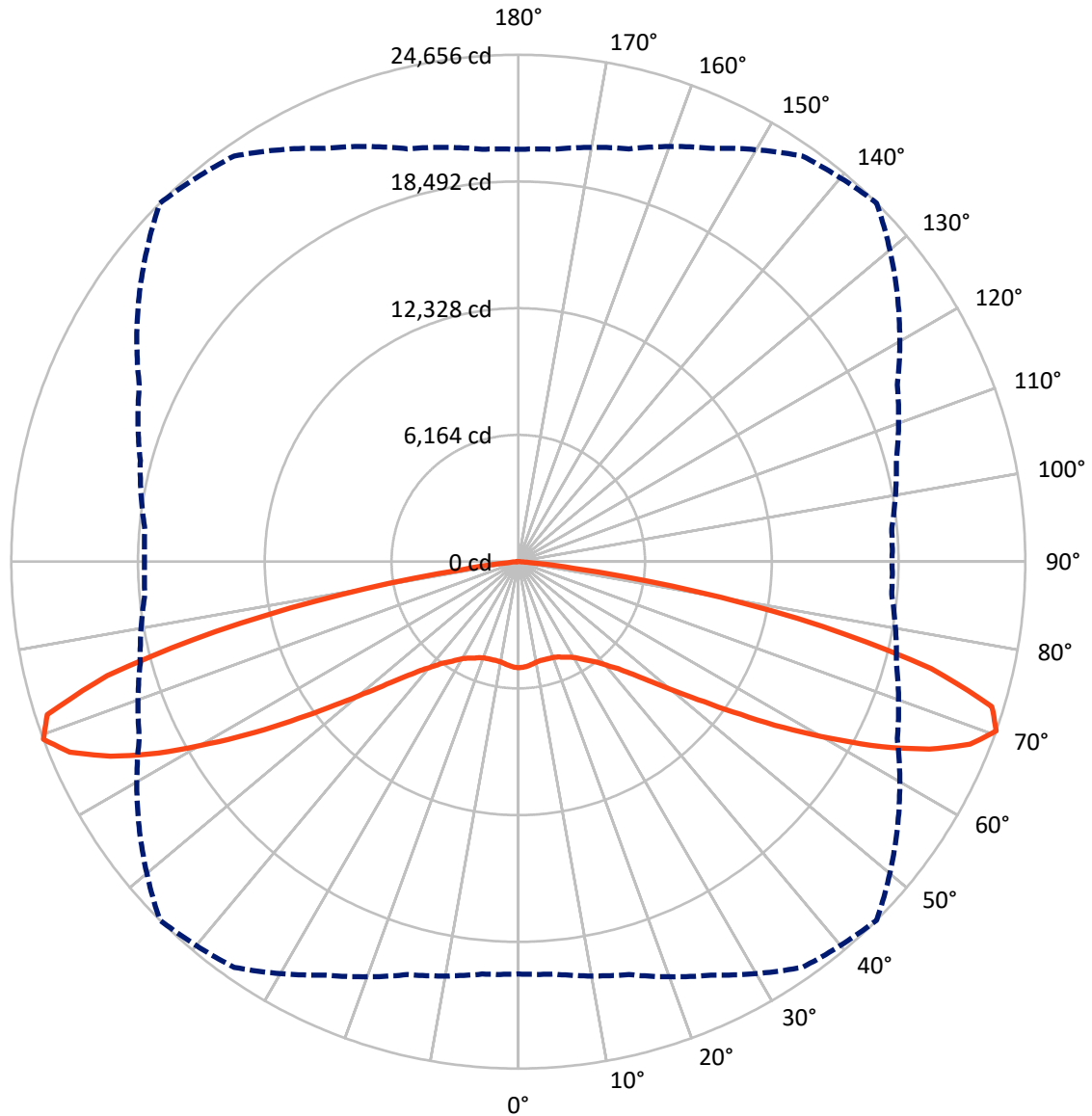
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type V - Short - N/A

REPORT NUMBER: P459414
CATALOG NUMBER: GALN-SA8D-735-U-5WQ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P459414

CATALOG NUMBER: GALN-SA8D-735-U-5WQ

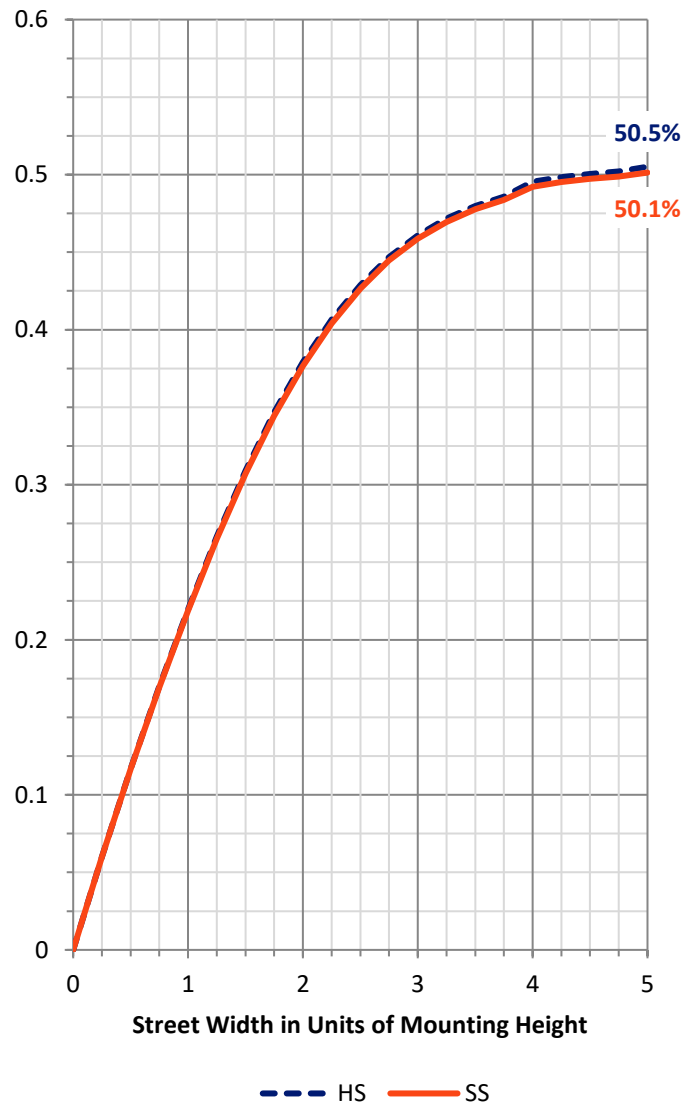
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	30452.0	0.0	30452.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	30452.0	0.0	30452.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	60904.0	0.0	60904.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	482.2	0.8
10°-20°	1411.7	2.3
20°-30°	2405.2	3.9
30°-40°	3728.0	6.1
40°-50°	6274.8	10.3
50°-60°	11416.7	18.7
60°-70°	19328.2	31.7
70°-80°	14960.8	24.6
80°-90°	896.5	1.5
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°	60904.0	100.0
0°-180°	60904.0	100.0



REPORT NUMBER: P459414

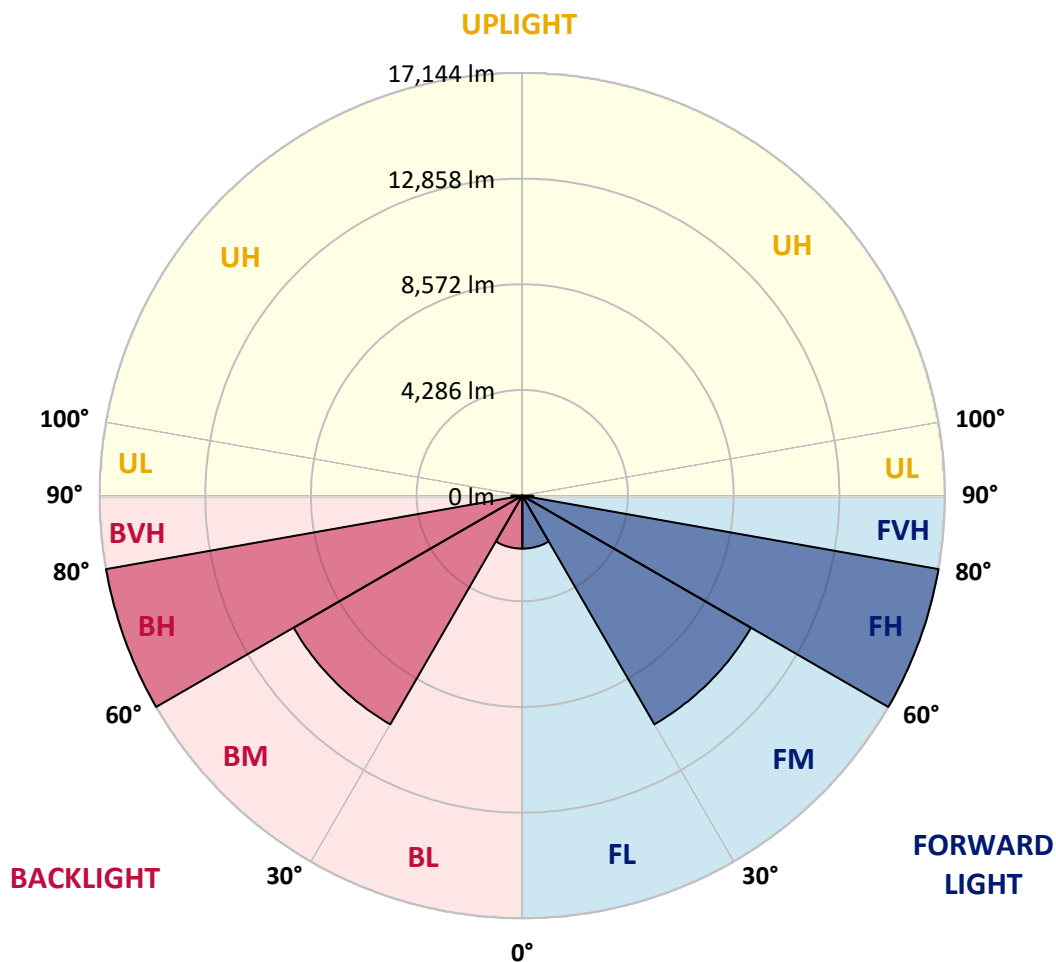
CATALOG NUMBER: GALN-SA8D-735-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2149.5	3.5			
FM (30°-60°)	10709.8	17.6			
FH (60°-80°)	17144.5	28.1			G5
FVH (80°-90°)	448.2	0.7			G3/500
BL (0°-30°)	2149.5	3.5	B3/2500		
BM (30°-60°)	10709.8	17.6	B5		
BH (60°-80°)	17144.5	28.1	B5		G5
BVH (80°-90°)	448.2	0.7			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 V Short





REPORT NUMBER: P459414

CATALOG NUMBER: GALN-SA8D-735-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5156.3	5156.3	5156.3	5156.3	5156.3	5156.3	5156.3	5156.3	5156.3	5156.3	5156.3
2.5°	5143.4	5146.6	5146.6	5140.2	5137.0	5137.0	5133.8	5133.8	5143.4	5146.6	5149.8
5°	5098.4	5098.4	5098.4	5095.2	5088.7	5088.7	5082.3	5082.3	5085.5	5095.2	5088.7
7.5°	5037.3	5043.7	5043.7	5030.8	5021.2	5021.2	5018.0	5021.2	5024.4	5034.0	5030.8
10°	5018.0	5021.2	5005.1	4982.6	4966.5	4956.8	4960.1	4966.5	4982.6	4989.0	4992.2
12.5°	5030.8	5030.8	5001.9	4969.7	4940.8	4927.9	4924.7	4947.2	4976.1	4995.4	5001.9
15°	5046.9	5040.5	5005.1	4963.3	4934.3	4931.1	4927.9	4944.0	4985.8	5024.4	5027.6
17.5°	5056.6	5053.3	5008.3	4956.8	4940.8	4940.8	4937.5	4950.4	4995.4	5043.7	5046.9
20°	5088.7	5079.1	5027.6	4972.9	4960.1	4966.5	4956.8	4972.9	5021.2	5079.1	5091.9
22.5°	5153.1	5143.4	5091.9	5037.3	5030.8	5030.8	5027.6	5043.7	5095.2	5156.3	5165.9
25°	5230.3	5220.6	5172.4	5133.8	5140.2	5153.1	5146.6	5149.8	5191.7	5243.1	5259.2
27.5°	5333.2	5317.1	5275.3	5243.1	5262.4	5262.4	5262.4	5259.2	5284.9	5333.2	5349.3
30°	5458.6	5452.2	5407.2	5404.0	5420.0	5404.0	5404.0	5407.2	5410.4	5455.4	5471.5
32.5°	5622.7	5609.8	5587.3	5580.9	5625.9	5638.8	5593.7	5551.9	5574.4	5619.5	5629.1
35°	5892.9	5873.6	5841.4	5806.0	5841.4	5902.5	5806.0	5773.9	5831.8	5892.9	5899.3
37.5°	6259.6	6249.9	6198.5	6134.1	6130.9	6195.2	6095.5	6092.3	6201.7	6275.7	6285.3
40°	6719.6	6729.2	6664.9	6603.8	6571.6	6623.1	6545.9	6574.8	6681.0	6764.6	6758.2
42.5°	7366.1	7330.7	7231.0	7173.1	7137.7	7118.4	7099.1	7144.2	7263.2	7353.2	7424.0
45°	8122.0	8109.1	7983.7	7912.9	7835.7	7806.8	7800.3	7880.8	8025.5	8134.9	8144.5
47.5°	8977.6	8948.7	8868.3	8794.3	8765.3	8730.0	8697.8	8758.9	8903.7	8980.9	9003.4
50°	9859.0	9865.4	9865.4	9852.6	9881.5	9887.9	9801.1	9823.6	9904.0	9897.6	9891.2
52.5°	10865.8	10901.2	11068.4	11084.5	11222.8	11316.1	11158.5	11065.2	11036.3	10862.6	10875.5
55°	12049.5	12081.7	12332.6	12583.5	12956.6	13114.2	12782.9	12493.4	12287.6	12023.8	12036.7
57.5°	13526.0	13542.0	13780.1	14262.6	14854.4	15224.3	14642.1	14069.6	13651.4	13400.5	13300.8
60°	15115.0	15131.1	15478.5	16067.1	16987.1	17437.4	16716.9	15780.8	15253.3	14870.5	14896.2
62.5°	17022.4	17086.8	17398.8	18209.4	19325.6	19830.6	18875.2	17624.0	16909.9	16433.8	16453.1
65°	19065.0	19174.4	19515.3	20406.3	21435.7	21979.3	20808.4	19364.2	18476.4	17894.2	17955.3
67.5°	20390.3	20486.8	20978.9	21963.2	23246.6	23697.0	22185.1	20502.8	19393.1	18698.3	18569.6
70°	20052.5	20132.9	20789.1	22185.1	24086.2	24655.5	22513.2	20335.6	19029.6	18228.7	18177.2
72.5°	17701.2	17533.9	18492.4	20496.4	23127.6	24083.0	21480.7	18572.9	16929.2	16105.7	16009.2
75°	11731.1	12094.6	13509.9	15870.9	19566.8	20750.5	18334.8	14912.3	12844.0	12158.9	12052.7
77.5°	3921.1	4200.9	5458.6	8996.9	13339.4	15118.2	13358.7	9752.8	6899.7	5558.3	5584.1
80°	1039.0	1026.1	1328.5	2473.6	5764.2	8755.7	6709.9	3303.5	1807.8	1309.2	1241.6
82.5°	373.1	418.2	537.2	685.1	1527.9	2721.3	1920.3	926.4	678.7	501.8	485.7
85°	164.0	160.8	231.6	273.4	382.8	508.2	450.3	392.4	344.2	228.4	212.3
87.5°	35.4	35.4	54.7	41.8	67.5	67.5	83.6	99.7	102.9	67.5	54.7
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)