

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: P529600

Luminaire Tested: **GALN-SA4D-735-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529600
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4D-735-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25163 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

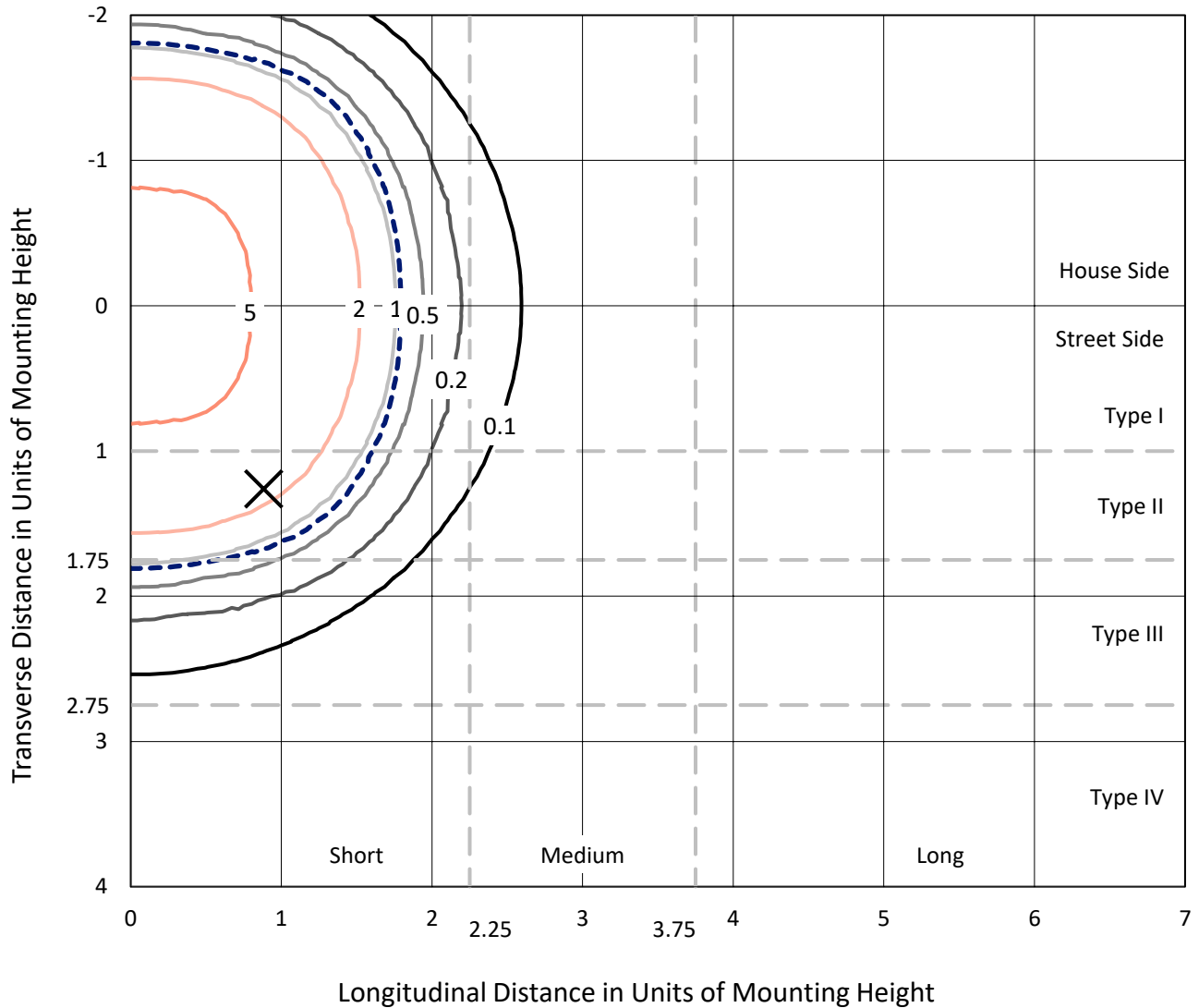
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P529600
 CATALOG NUMBER: GALN-SA4D-735-U-5MQ-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

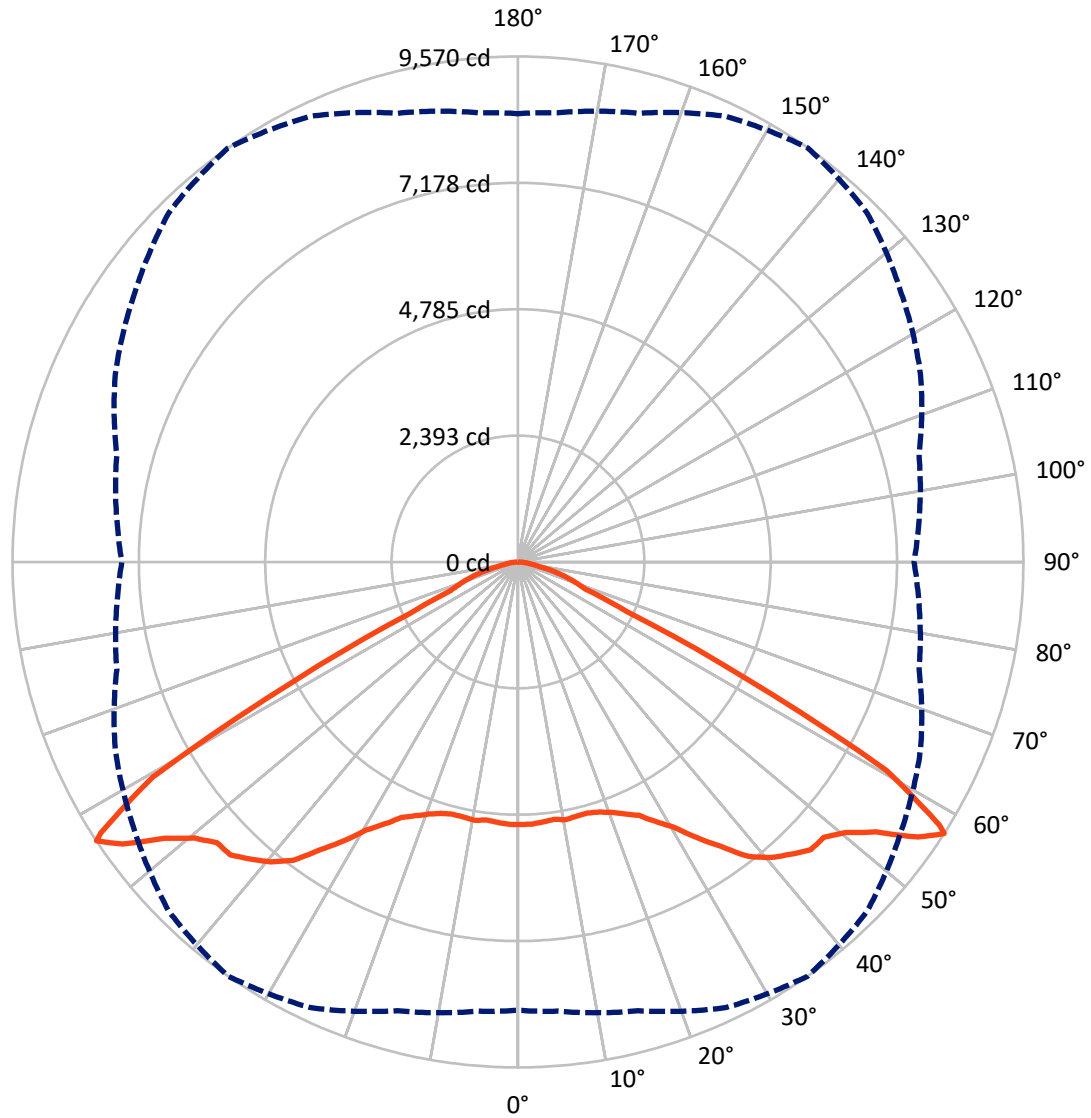
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type V - Short - N/A

REPORT NUMBER: P529600
CATALOG NUMBER: GALN-SA4D-735-U-5MQ-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

REPORT NUMBER: P529600
 CATALOG NUMBER: GALN-SA4D-735-U-5MQ-GRSWH

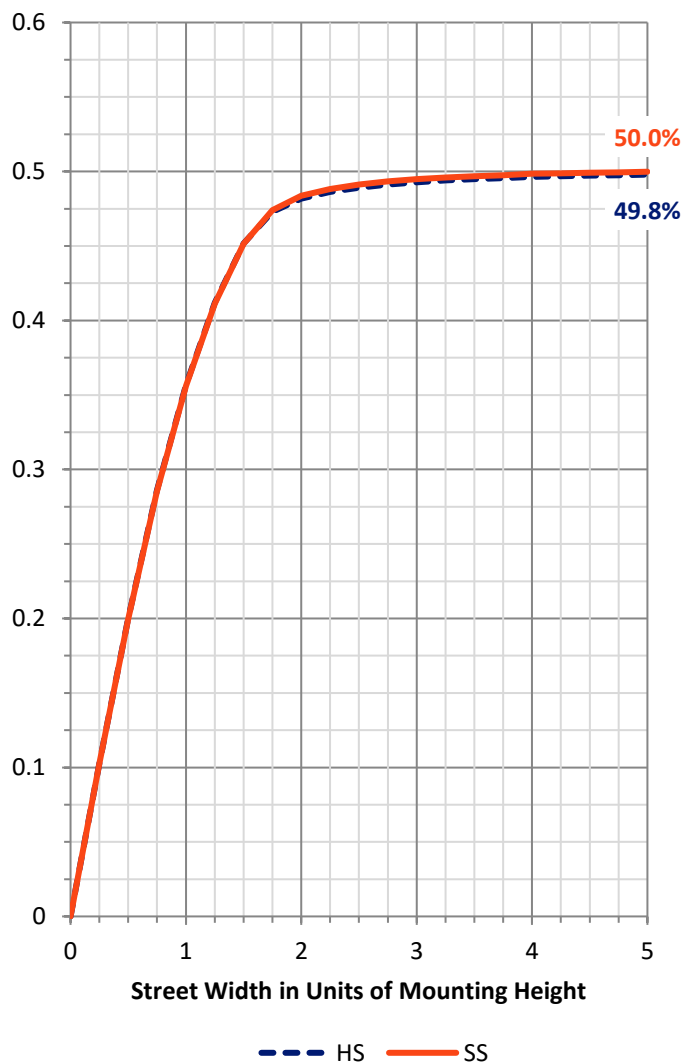
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12581.5	0.0	12581.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12581.5	0.0	12581.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	25163.0	0.0	25163.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	471.1	1.9
10°-20°	1395.3	5.5
20°-30°	2436.9	9.7
30°-40°	3993.0	15.9
40°-50°	5854.7	23.3
50°-60°	7374.5	29.3
60°-70°	2773.5	11.0
70°-80°	737.4	2.9
80°-90°	126.4	0.5
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°	25163.0	100.0
0°-180°	25163.0	100.0

Coefficient of Utilization



REPORT NUMBER: P529600

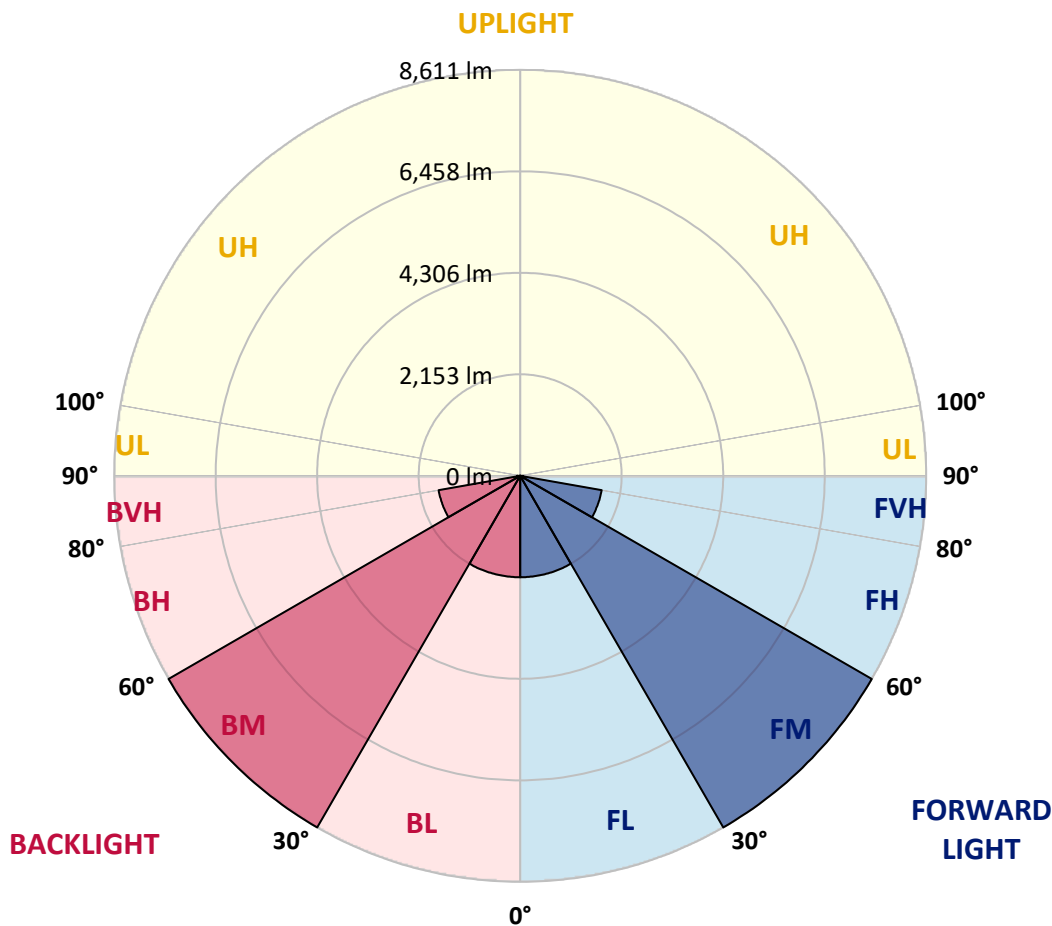
CATALOG NUMBER: GALN-SA4D-735-U-5MQ-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2151.7	8.6			
FM (30°-60°)	8611.1	34.2			
FH (60°-80°)	1755.5	7.0			G1/1800
FVH (80°-90°)	63.2	0.3			G1/100
BL (0°-30°)	2151.7	8.6	B3/2500		
BM (30°-60°)	8611.1	34.2	B5		
BH (60°-80°)	1755.5	7.0	B3/2500		G1/1800
BVH (80°-90°)	63.2	0.3			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





REPORT NUMBER: P529600

CATALOG NUMBER: GALN-SA4D-735-U-5MQ-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4969.5	4969.5	4969.5	4969.5	4969.5	4969.5	4969.5	4969.5	4969.5	4969.5	4969.5
2.5°	4944.7	4994.3	4972.6	4960.2	4969.5	4954.0	4929.2	4957.1	4950.9	4926.1	4916.8
5°	4932.3	4969.5	4944.7	4969.5	4944.7	4988.1	4975.7	4929.2	4985.0	4932.3	4950.9
7.5°	4923.0	4935.4	4941.6	4929.2	4919.9	4972.6	4944.7	4923.0	4892.0	4882.7	4898.2
10°	4901.3	4932.3	4885.8	4947.8	4960.2	4923.0	4923.0	4882.7	4857.9	4842.4	4895.1
12.5°	4957.1	4904.4	4898.2	4929.2	4938.5	4954.0	4910.6	4888.9	4842.4	4848.6	4839.3
15°	4892.0	4913.7	4916.8	4923.0	4932.3	4969.5	4929.2	4882.7	4864.1	4799.0	4805.2
17.5°	4916.8	4895.1	4916.8	4988.1	4975.7	5003.6	4960.2	4888.9	4845.5	4808.3	4857.9
20°	4960.2	4950.9	4960.2	5047.0	5062.5	5087.3	5050.1	4985.0	4901.3	4857.9	4882.7
22.5°	5006.7	5000.5	5006.7	5090.4	5180.3	5211.3	5174.1	5022.2	4978.8	4898.2	4870.3
25°	5090.4	5096.6	5161.7	5254.7	5313.6	5372.5	5304.3	5195.8	5056.3	5006.7	4947.8
27.5°	5276.4	5291.9	5329.1	5465.5	5567.8	5620.5	5524.4	5375.6	5288.8	5186.5	5171.0
30°	5505.8	5505.8	5570.9	5688.7	5828.2	5908.8	5791.0	5614.3	5508.9	5453.1	5419.0
32.5°	5809.6	5775.5	5800.3	6008.1	6225.1	6293.3	6135.2	5918.1	5750.7	5676.3	5651.5
35°	6070.1	6091.8	6147.6	6370.8	6612.6	6770.7	6522.7	6240.6	6070.1	6001.9	5989.4
37.5°	6408.0	6445.2	6473.1	6780.0	7071.4	7130.3	6891.6	6665.3	6457.6	6401.8	6370.8
40°	6885.4	6860.6	6869.9	7096.2	7359.7	7396.9	7161.3	7000.1	6829.6	6795.5	6795.5
42.5°	7279.1	7251.2	7282.2	7365.9	7567.4	7539.5	7409.3	7291.5	7220.2	7183.0	7220.2
45°	7517.8	7511.6	7567.4	7629.4	7772.0	7679.0	7576.7	7595.3	7527.1	7465.1	7462.0
47.5°	7778.2	7737.9	7806.1	7899.1	7790.6	7747.2	7741.0	7781.3	7759.6	7651.1	7617.0
50°	7905.3	7889.8	7998.3	8106.8	8047.9	7948.7	7970.4	8035.5	7756.5	7610.8	7527.1
52.5°	8246.3	8249.4	8457.2	8516.1	8491.3	8345.5	8392.0	8215.3	7886.7	7682.1	7691.4
55°	8782.7	8761.0	8993.5	9167.1	9195.0	9009.0	8785.8	8537.8	8125.4	7917.7	7855.7
57°	8488.2	8537.8	8795.1	9309.7	9570.1	9350.0	8863.3	8410.7	7861.9	7610.8	7499.2
57.5°	8094.4	8175.0	8621.5	9139.2	9412.0	9393.4	8767.2	8175.0	7685.2	7294.6	7303.9
60°	5930.5	5946.0	6349.1	7170.6	8023.1	8041.7	7279.1	6494.8	5949.1	5524.4	5583.3
62.5°	3128.0	3199.3	3360.5	4020.9	4758.7	4938.5	4476.6	4073.6	3602.4	3279.9	3310.9
65°	1655.5	1646.2	1723.7	1909.7	2272.4	2365.4	2303.4	1984.1	1819.8	1767.1	1770.2
67.5°	1345.5	1361.0	1351.7	1361.0	1385.8	1426.1	1416.8	1429.2	1438.5	1454.0	1450.9
70°	1140.8	1140.8	1147.0	1150.1	1150.1	1168.7	1190.4	1230.8	1233.9	1249.4	1255.6
72.5°	899.0	892.8	902.1	923.8	926.9	942.4	973.4	998.2	1007.5	1007.5	988.9
75°	610.7	616.9	629.3	647.9	666.5	694.4	719.2	734.7	740.9	731.6	722.3
77.5°	344.1	350.3	359.6	387.5	409.2	434.0	461.9	477.4	492.9	496.0	477.4
80°	204.6	204.6	220.1	241.8	266.6	291.4	316.2	334.8	341.0	341.0	331.7
82.5°	124.0	127.1	139.5	161.2	182.9	198.4	220.1	235.6	248.0	244.9	238.7
85°	65.1	65.1	77.5	96.1	111.6	127.1	127.1	117.8	111.6	96.1	89.9
87.5°	21.7	18.6	24.8	24.8	21.7	24.8	24.8	27.9	27.9	27.9	27.9
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)