

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: P534284

Luminaire Tested: **GALN-SA9D-735-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534284
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-735-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55425 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

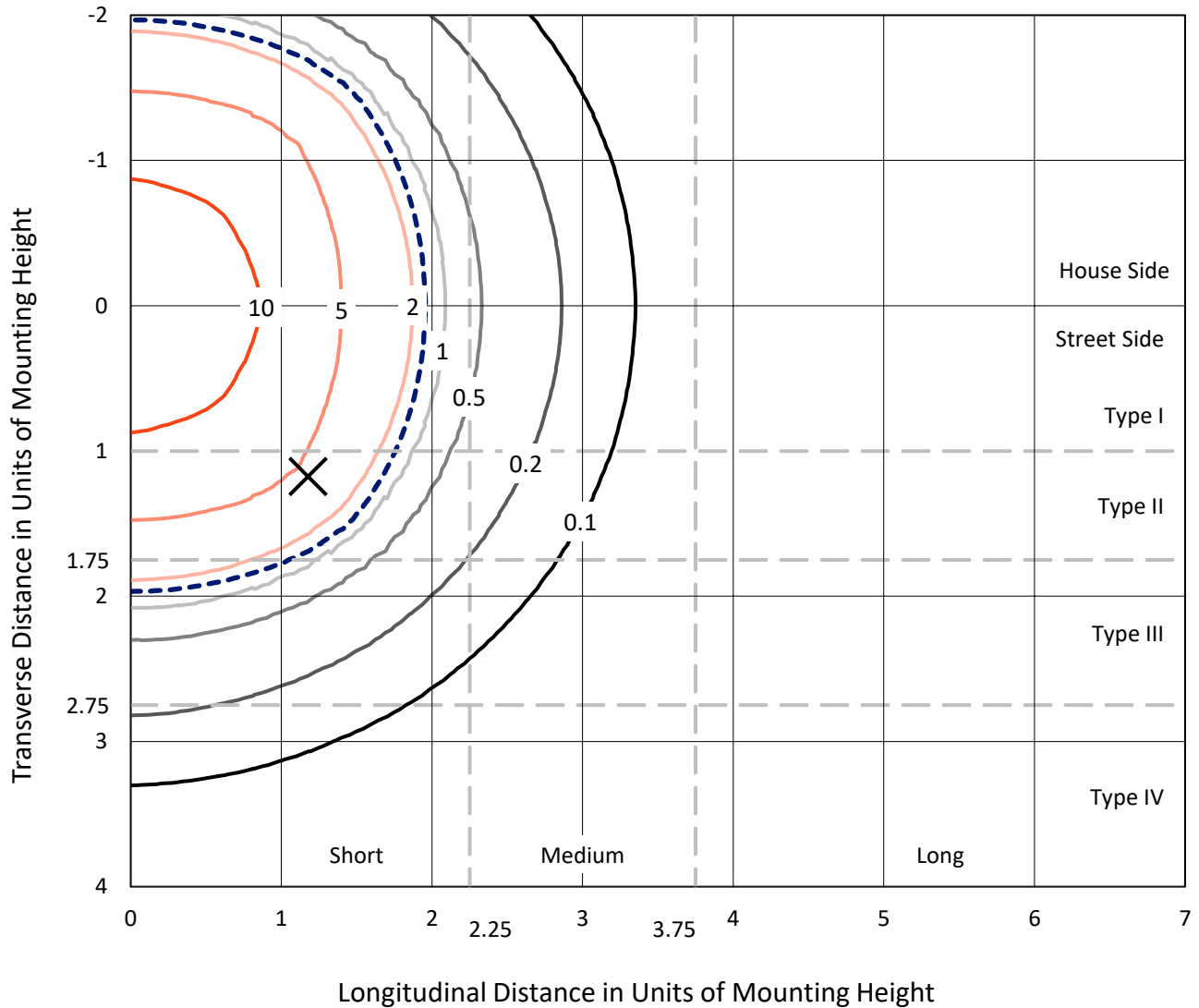
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P534284
 CATALOG NUMBER: GALN-SA9D-735-U-5WQ-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

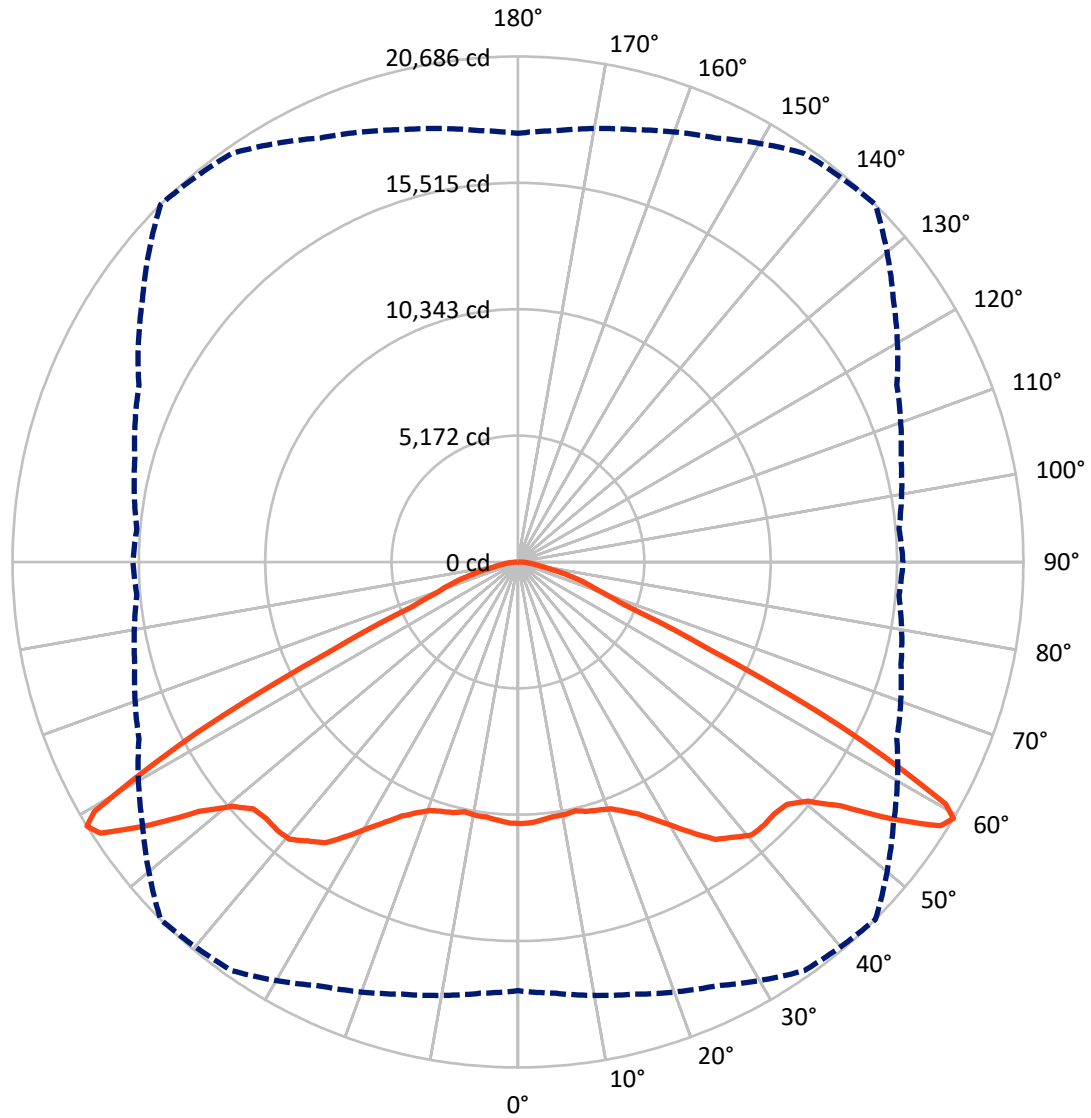
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.1 fc
 Type V - Short - N/A

REPORT NUMBER: P534284
CATALOG NUMBER: GALN-SA9D-735-U-5WQ-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 59-Deg Vertical

REPORT NUMBER: P534284
 CATALOG NUMBER: GALN-SA9D-735-U-5WQ-GRSWH

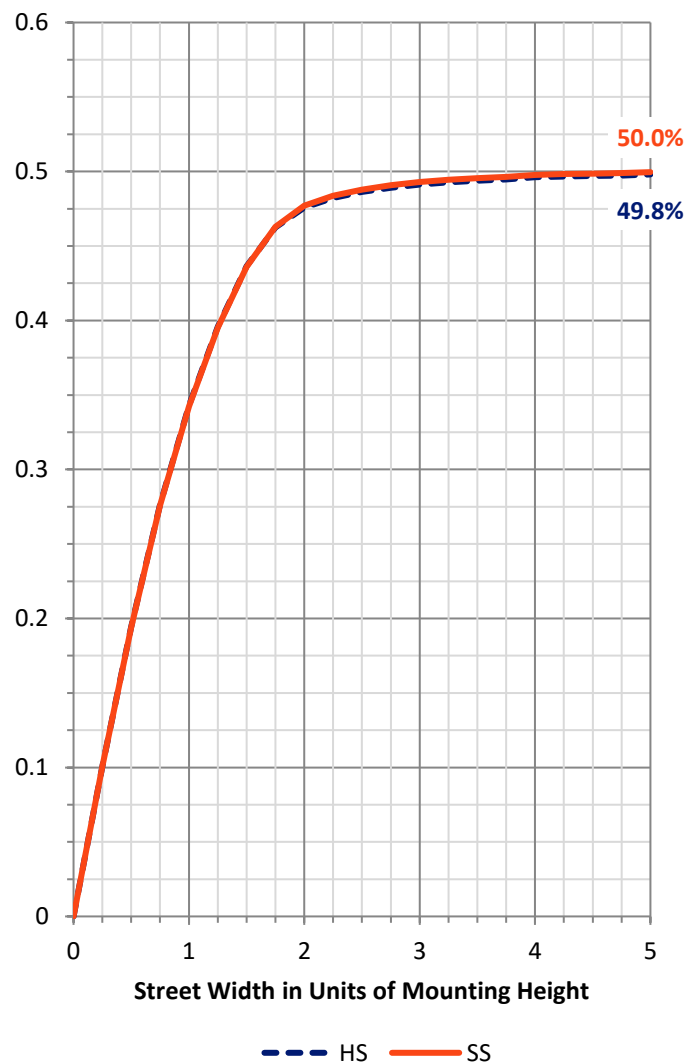
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	27712.5	0.0	27712.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	27712.5	0.0	27712.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	55425.0	0.0	55425.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1009.2	1.8
10°-20°	3001.1	5.4
20°-30°	5240.3	9.5
30°-40°	8369.5	15.1
40°-50°	11401.0	20.6
50°-60°	15417.2	27.8
60°-70°	8454.8	15.3
70°-80°	2163.0	3.9
80°-90°	368.9	0.7
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°	55425.0	100.0
0°-180°	55425.0	100.0

Coefficient of Utilization



REPORT NUMBER: P534284

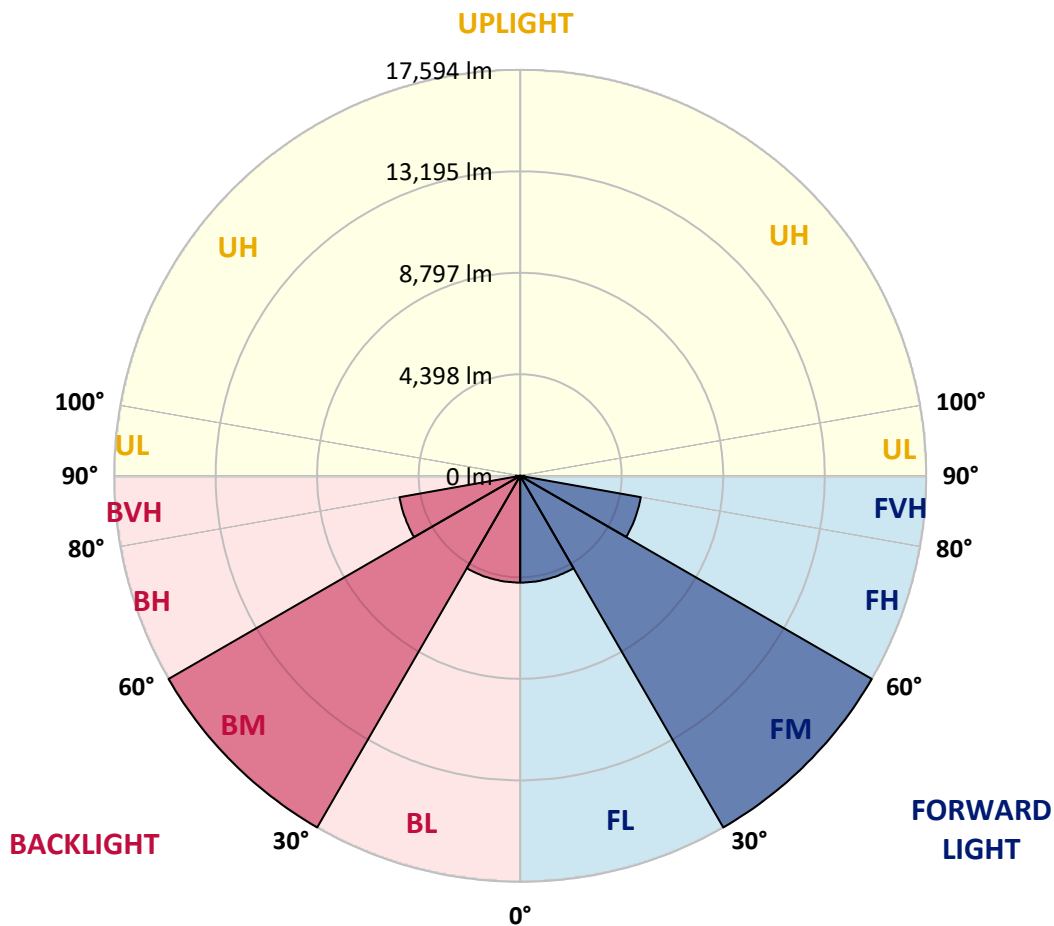
CATALOG NUMBER: GALN-SA9D-735-U-5WQ-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4625.3	8.3			
FM (30°-60°)	17593.8	31.7			
FH (60°-80°)	5308.9	9.6			G3/7500
FVH (80°-90°)	184.4	0.3			G2/225
BL (0°-30°)	4625.3	8.3	B4/5000		
BM (30°-60°)	17593.8	31.7	B5		
BH (60°-80°)	5308.9	9.6	B5		G3/7500
BVH (80°-90°)	184.4	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-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	10705.5	10705.5	10705.5	10705.5	10705.5	10705.5	10705.5	10705.5	10705.5	10705.5	10705.5
2.5°	10641.5	10719.7	10662.8	10712.6	10705.5	10684.1	10648.6	10627.3	10598.9	10641.5	10570.5
5°	10598.9	10662.8	10726.8	10641.5	10641.5	10598.9	10577.6	10535.0	10535.0	10527.9	10520.8
7.5°	10669.9	10606.0	10577.6	10591.8	10606.0	10513.7	10577.6	10492.3	10421.3	10471.0	10527.9
10°	10606.0	10634.4	10527.9	10577.6	10499.4	10513.7	10471.0	10527.9	10449.7	10449.7	10449.7
12.5°	10669.9	10591.8	10627.3	10591.8	10570.5	10449.7	10506.6	10442.6	10435.5	10506.6	10442.6
15°	10797.8	10669.9	10641.5	10570.5	10591.8	10591.8	10535.0	10542.1	10463.9	10506.6	10520.8
17.5°	10755.2	10684.1	10662.8	10577.6	10648.6	10669.9	10563.4	10492.3	10542.1	10535.0	10527.9
20°	10790.7	10819.1	10797.8	10812.0	10840.4	10783.6	10684.1	10584.7	10520.8	10613.1	10606.0
22.5°	11018.0	10989.6	10975.4	10961.2	11010.9	11067.8	10932.8	10776.5	10776.5	10840.4	10868.8
25°	11202.7	11195.6	11188.5	11252.5	11422.9	11422.9	11252.5	11053.5	11003.8	11046.4	11010.9
27.5°	11472.7	11550.8	11522.4	11636.1	11884.7	11941.5	11714.2	11479.8	11344.8	11295.1	11359.0
30°	12090.7	11998.4	12019.7	12140.4	12360.6	12545.3	12197.3	11948.6	11763.9	11756.8	11785.2
32.5°	12502.7	12573.8	12637.7	12751.4	13099.4	13241.5	12822.4	12417.5	12303.8	12239.9	12261.2
35°	13326.8	13262.8	13248.6	13362.3	13710.4	13944.8	13419.1	13063.9	12914.7	13056.8	13056.8
37.5°	14108.2	13930.6	13795.6	13944.8	14264.5	14292.9	13845.3	13653.5	13575.4	13738.8	13731.7
40°	14477.6	14463.4	14150.8	14236.1	14662.3	14704.9	14285.8	14058.5	14044.3	14257.4	14470.5
42.5°	14861.2	14726.2	14413.7	14470.5	14733.3	14747.5	14349.7	14285.8	14442.1	14648.1	14662.3
45°	14925.1	14811.5	14612.6	14470.5	14662.3	14704.9	14470.5	14513.1	14527.3	14775.9	14775.9
47.5°	15053.0	15038.8	14925.1	14818.6	14854.1	14818.6	14669.4	14733.3	14946.4	15067.2	15010.4
50°	15408.2	15259.0	15372.7	15280.3	15287.4	15386.9	15251.9	15315.8	15273.2	15166.7	15095.6
52.5°	16189.6	16118.6	16218.0	16282.0	16353.0	16580.3	16424.0	16083.1	15763.4	15479.2	15472.1
55°	17333.3	17383.1	17574.9	17901.6	18178.7	18541.0	17788.0	16971.0	16459.6	16012.0	16040.4
57.5°	18413.1	18377.6	18640.4	19386.3	20196.2	20380.9	18903.3	17738.2	16907.1	16622.9	16502.2
59°	17546.4	17716.9	18313.7	19144.8	20416.4	20686.3	18754.1	17113.1	16232.2	15656.8	15756.3
60°	16182.5	16246.4	16779.2	17937.2	19656.3	20118.0	17752.5	16147.0	14974.9	14641.0	14790.2
62.5°	11437.2	11387.4	11771.0	12715.8	14257.4	14882.5	13198.9	12069.4	11330.6	10961.2	11046.4
65°	6080.9	6308.2	6464.5	7054.1	7871.0	8531.7	7835.5	7345.4	6933.3	6627.9	6620.8
67.5°	4106.0	4077.6	4113.1	4248.1	4525.1	4709.8	4695.6	4447.0	4411.5	4354.6	4418.6
70°	3459.6	3445.4	3381.4	3381.4	3438.2	3480.9	3530.6	3559.0	3615.8	3686.9	3679.8
72.5°	2806.0	2770.5	2727.9	2706.6	2777.6	2798.9	2862.8	2891.3	2941.0	2933.9	2997.8
75°	1854.1	1854.1	1903.8	1960.7	1982.0	2024.6	2031.7	2116.9	2116.9	2131.1	2074.3
77.5°	1037.2	1008.7	1044.3	1101.1	1150.8	1229.0	1307.1	1371.0	1406.6	1392.3	1392.3
80°	603.8	603.8	639.3	703.3	767.2	838.3	895.1	944.8	980.3	966.1	937.7
82.5°	376.5	376.5	412.0	476.0	525.7	568.3	646.4	710.4	753.0	738.8	703.3
85°	191.8	191.8	234.4	277.0	341.0	369.4	362.3	333.9	326.8	291.3	291.3
87.5°	49.7	49.7	71.0	78.1	63.9	71.0	71.0	71.0	71.0	71.0	78.1
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)