

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: P647652

Luminaire Tested: **GALN-SA9D-835-U-RW-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647652
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-8)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-835-U-RW-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48116.1 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

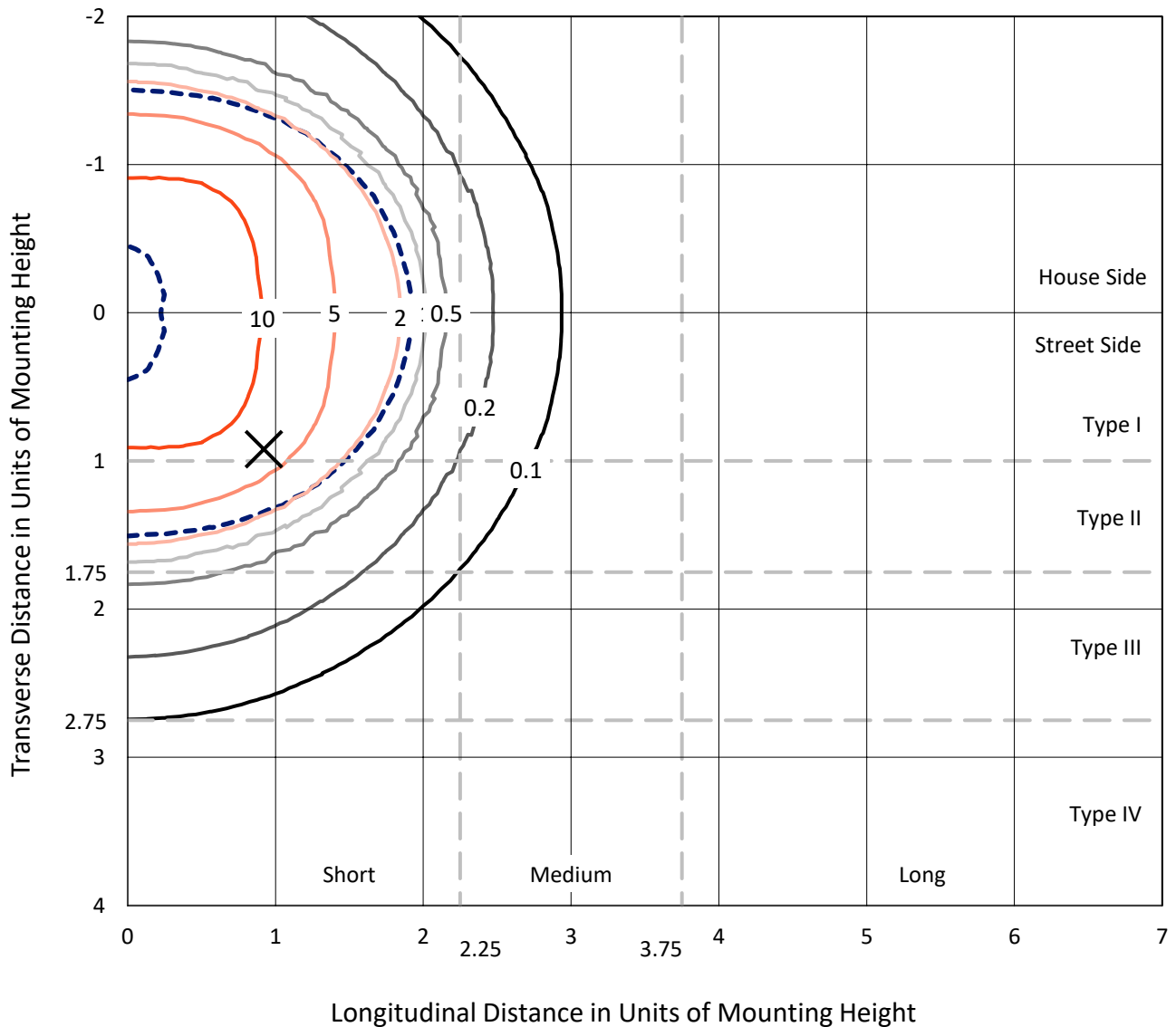
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P647652
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Iso-Footcandle Lines of Horizontal Illumination

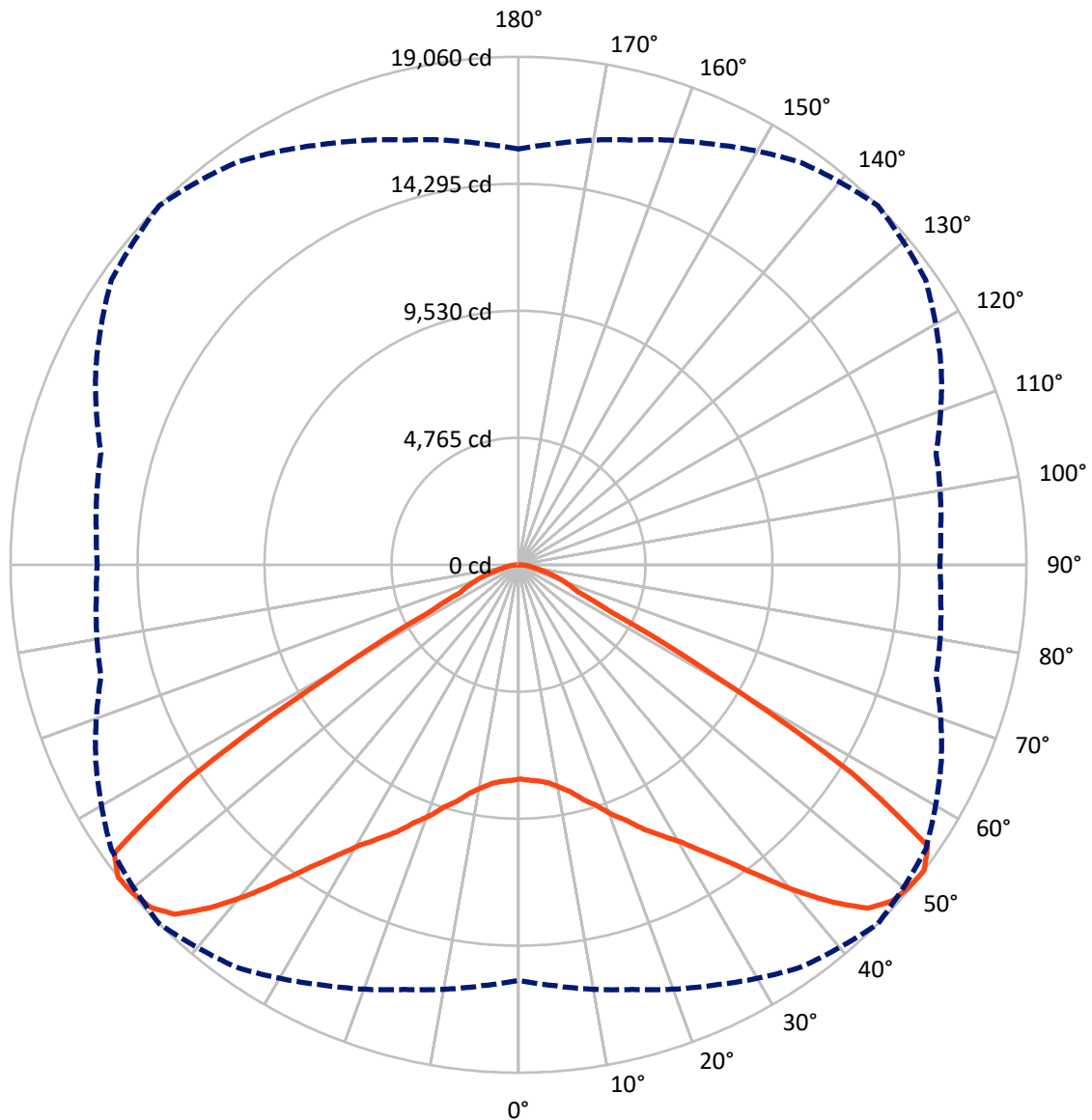
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.2 fc
 Type V - Short - N/A

REPORT NUMBER: P647652
CATALOG NUMBER: GALN-SA9D-835-U-RW-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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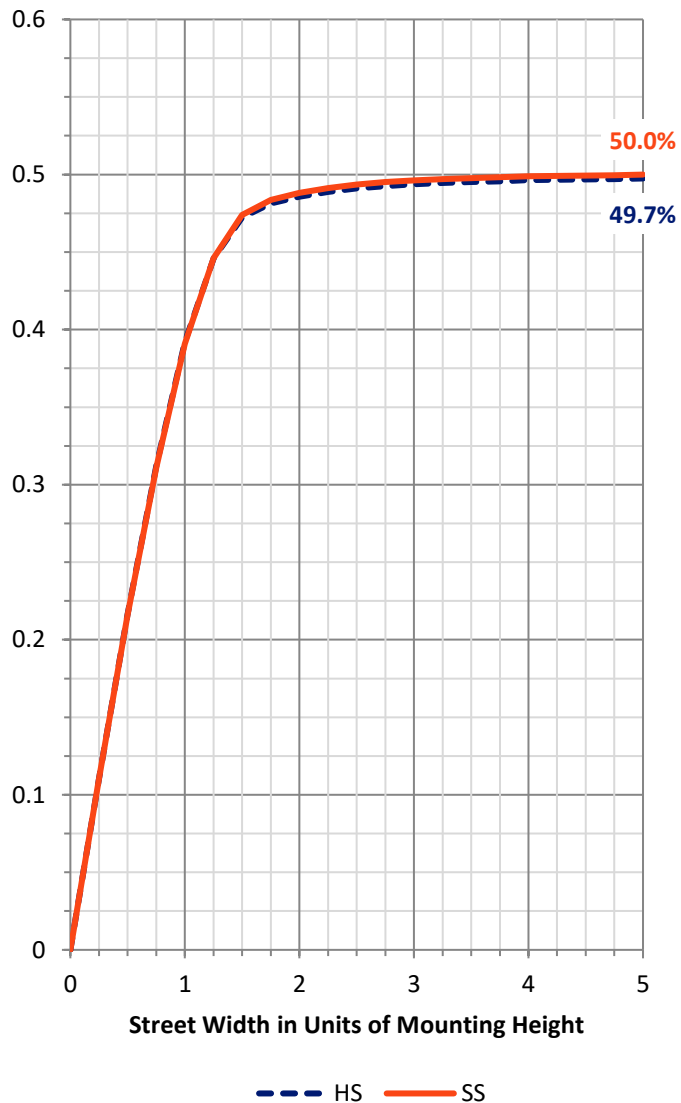
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	24058.1	0.0	24058.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	24058.1	0.0	24058.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	48116.1	0.0	48116.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	790.2	1.6
10°-20°	2596.6	5.4
20°-30°	4943.6	10.3
30°-40°	8488.5	17.6
40°-50°	13047.1	27.1
50°-60°	13249.1	27.5
60°-70°	3692.3	7.7
70°-80°	1089.2	2.3
80°-90°	219.4	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°	48116.1	100.0
0°-180°	48116.1	100.0

Coefficient of Utilization

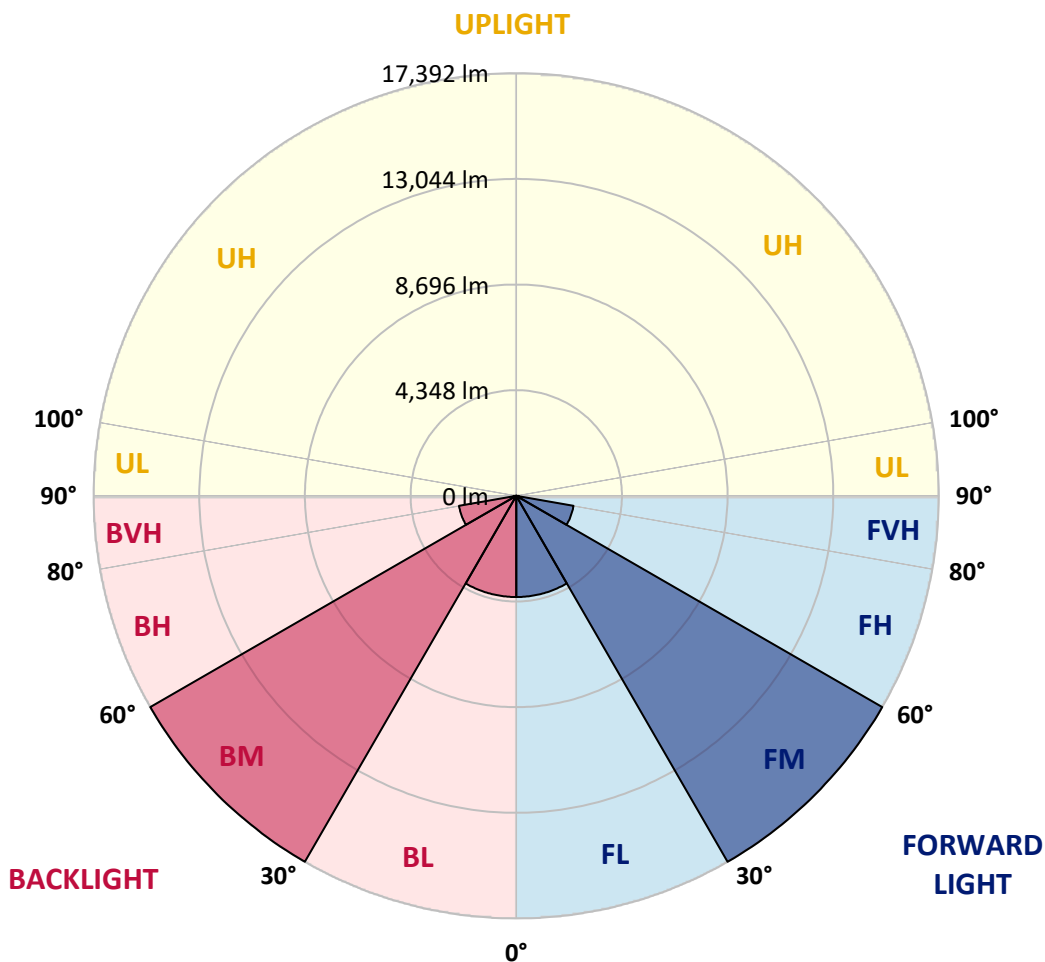


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4165.2	8.7			
FM (30°-60°)	17392.4	36.1			
FH (60°-80°)	2390.8	5.0			G2/5000
FVH (80°-90°)	109.7	0.2			G2/225
BL (0°-30°)	4165.2	8.7	B4/5000		
BM (30°-60°)	17392.4	36.1	B5		
BH (60°-80°)	2390.8	5.0	B3/2500		G2/5000
BVH (80°-90°)	109.7	0.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	8043.2	8043.2	8043.2	8043.2	8043.2	8043.2	8043.2	8043.2	8043.2	8043.2	8043.2
2.5°	8061.1	7977.6	8007.4	8025.4	8103.0	8097.0	8079.1	8103.0	8126.8	8132.8	8120.9
5°	8055.2	7995.4	8019.3	8037.3	8114.9	8156.7	8144.8	8246.2	8317.9	8300.0	8389.6
7.5°	8007.4	8043.2	8013.4	8103.0	8168.6	8270.1	8377.6	8473.2	8562.7	8664.3	8682.1
10°	8114.9	8114.9	8168.6	8240.3	8413.5	8491.1	8646.4	8783.7	8956.8	9076.3	9028.5
12.5°	8228.4	8246.2	8246.2	8431.3	8574.7	8747.8	8891.1	9076.3	9321.1	9464.4	9536.1
15°	8341.8	8353.7	8413.5	8664.3	8879.2	9153.9	9285.3	9452.5	9589.8	9858.5	9864.5
17.5°	8443.3	8509.0	8688.2	8968.8	9237.5	9500.2	9709.2	9882.4	10001.8	10109.3	10085.4
20°	8825.5	8873.3	9058.4	9339.0	9739.1	9995.9	10067.5	10097.3	10175.0	10389.9	10324.2
22.5°	9195.7	9213.6	9386.8	9816.7	10097.3	10437.7	10515.3	10497.4	10527.3	10581.0	10676.6
25°	9577.8	9607.7	9846.5	10210.8	10604.9	11010.9	11076.6	10939.3	10897.5	10957.2	10963.2
27.5°	10067.5	10073.5	10378.0	10694.4	11142.3	11524.5	11626.0	11518.5	11321.5	11369.2	11446.8
30°	10688.5	10646.7	10951.3	11405.0	11876.8	12091.7	12264.9	12211.2	11996.2	11954.4	11888.7
32.5°	11405.0	11417.0	11691.7	12187.3	12497.8	12856.1	13041.2	12951.6	12814.3	12742.6	12784.4
35°	12414.2	12467.9	12653.0	13065.1	13566.6	13745.8	14038.3	13847.3	13489.0	13578.6	13656.2
37.5°	13244.2	13399.4	13745.8	14235.4	14534.0	14862.4	14969.9	14713.1	14450.3	14342.9	14599.7
40°	14516.0	14468.3	14850.5	15340.1	15782.0	16110.4	15973.0	15716.3	15065.4	15071.4	15143.1
42.5°	15608.8	15632.7	15925.3	16510.4	17113.6	17316.6	16880.7	16253.7	15531.2	15453.5	15608.8
45°	16528.3	16623.9	16791.1	17573.3	18164.5	18385.4	17579.3	16838.9	15871.5	15549.0	15805.9
47.5°	16856.8	17012.0	17376.3	18092.9	18678.0	18857.1	18212.3	17149.3	16188.0	15662.5	15799.8
50°	16904.6	16850.8	17447.9	18104.8	18618.3	19006.4	18439.2	17376.3	16110.4	15835.7	15793.9
52.5°	15596.8	15859.6	16498.5	17400.1	18439.2	19060.2	18642.2	17501.7	16217.9	15907.3	15805.9
55°	12623.2	12312.7	13477.1	14993.7	16904.6	18630.2	18570.5	17567.4	16283.5	16026.8	15889.4
57.5°	7046.1	7135.6	7792.4	9440.5	11906.6	14772.8	16510.4	16874.7	16253.7	16104.4	16176.1
60°	3260.3	3290.2	3570.8	4341.1	5869.7	8377.6	10664.6	12987.4	14056.3	14271.3	14271.3
62.5°	2430.3	2418.4	2490.0	2627.4	2949.8	3851.4	5141.3	6986.3	8455.2	9482.3	9751.0
65°	2197.4	2191.5	2227.2	2275.0	2298.9	2424.3	2710.9	3278.2	3755.9	4030.6	3982.8
67.5°	1922.7	1916.8	1928.7	1958.6	2000.3	2066.0	2137.7	2257.2	2424.3	2412.3	2382.5
70°	1552.5	1552.5	1570.5	1594.3	1642.1	1719.7	1803.3	1886.9	2030.2	2060.1	2054.1
72.5°	1146.5	1128.5	1164.4	1212.2	1259.9	1355.5	1445.0	1522.7	1624.2	1654.0	1642.1
75°	728.5	740.4	764.3	818.1	901.6	967.3	1062.8	1128.5	1194.2	1218.1	1224.1
77.5°	406.1	418.0	459.8	525.5	609.1	680.7	764.3	818.1	859.9	865.8	871.8
80°	244.8	250.8	292.6	352.3	424.0	501.6	567.3	621.0	656.9	638.9	633.0
82.5°	149.3	155.3	191.1	244.8	304.5	364.3	435.9	483.7	519.5	495.6	471.8
85°	77.6	83.6	113.5	149.3	197.1	226.9	226.9	203.0	197.1	185.1	179.2
87.5°	23.9	23.9	29.8	35.9	29.8	35.9	41.8	47.8	47.8	53.7	47.8
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)