

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: P530544

Luminaire Tested: **GALN-SA5D-735-U-RW-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530544
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-SA5D-735-U-RW-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 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: 31622 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

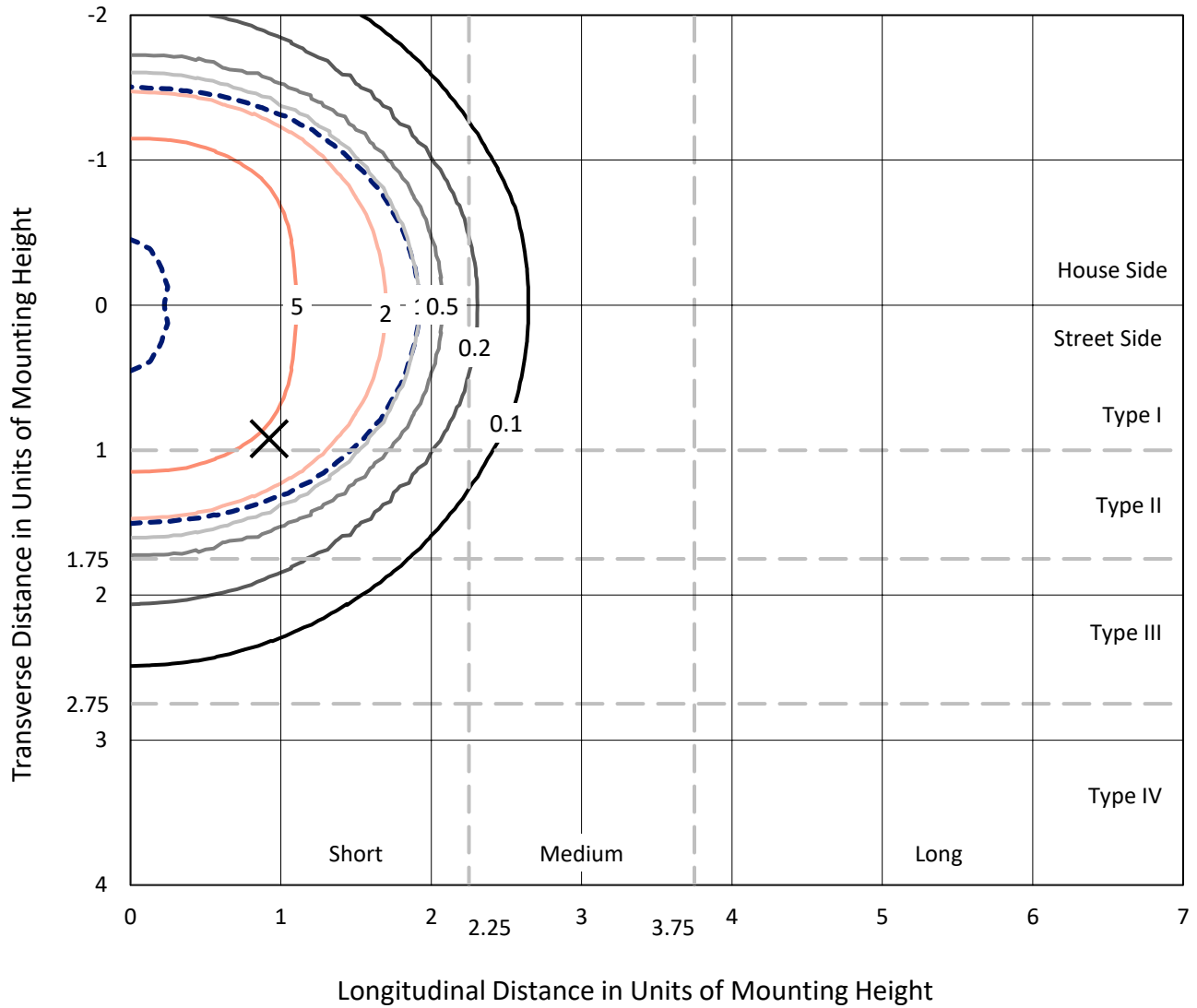
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

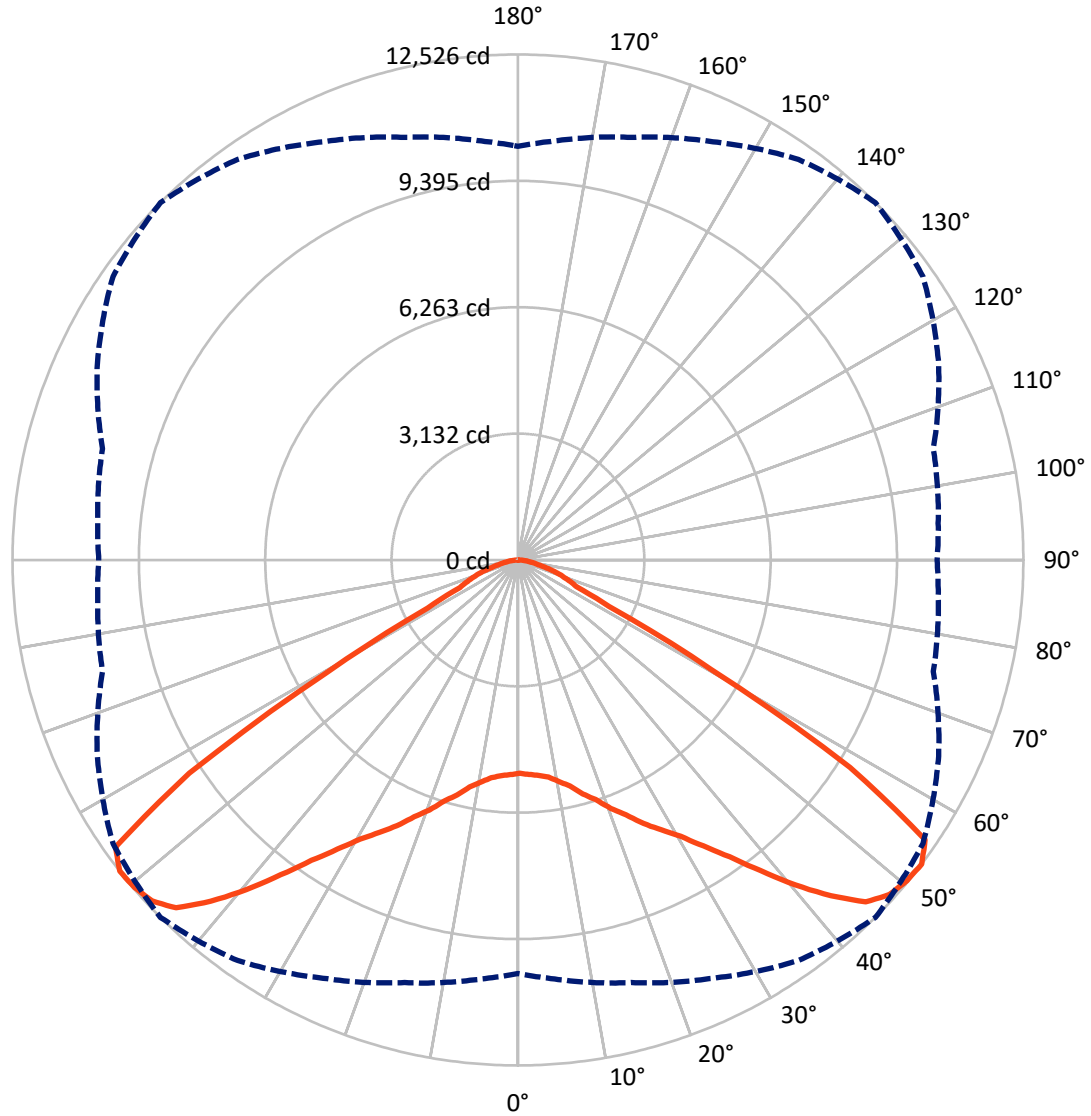
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type V - Short - N/A

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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	15811.0	0.0	15811.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15811.0	0.0	15811.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	31622.0	0.0	31622.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	519.3	1.6
10°-20°	1706.5	5.4
20°-30°	3248.9	10.3
30°-40°	5578.7	17.6
40°-50°	8574.6	27.1
50°-60°	8707.3	27.5
60°-70°	2426.6	7.7
70°-80°	715.8	2.3
80°-90°	144.2	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°	31622.0	100.0
0°-180°	31622.0	100.0

Coefficient of Utilization



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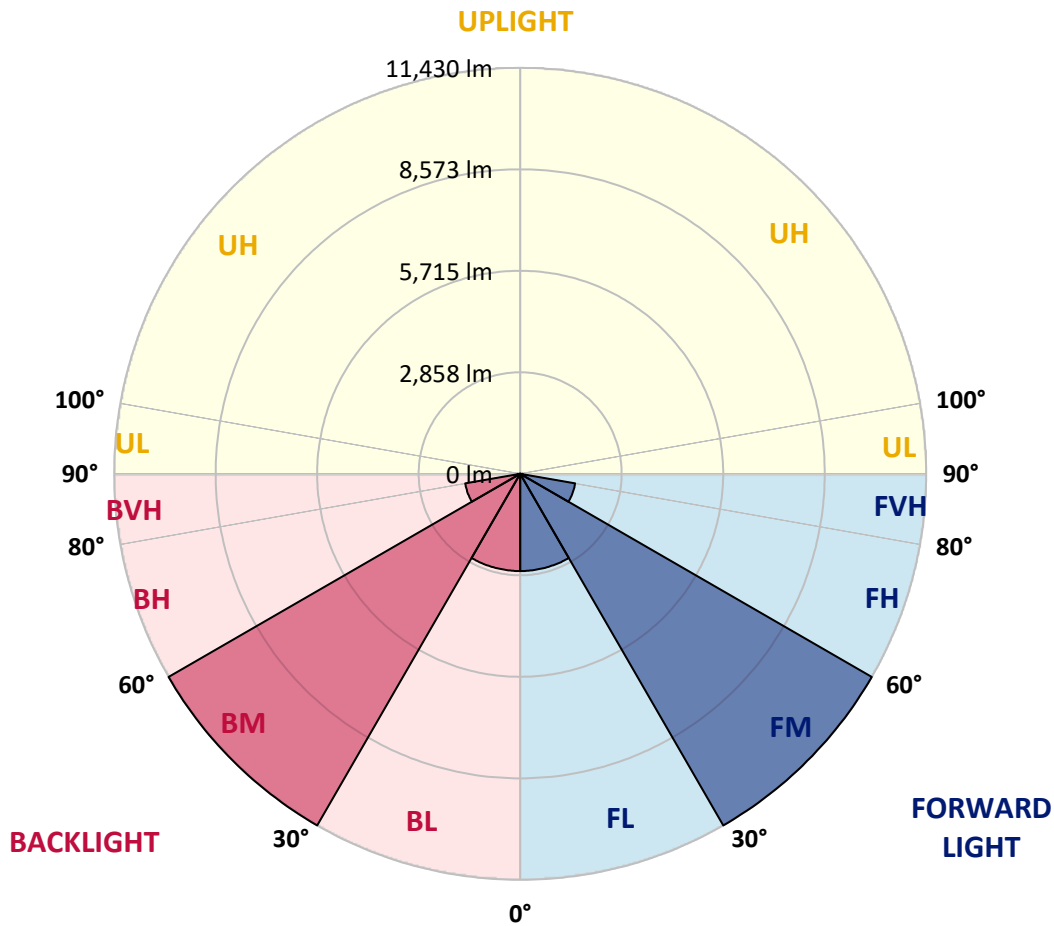
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2737.4	8.7			
FM (30°-60°)	11430.3	36.1			
FH (60°-80°)	1571.2	5.0			G1/1800
FVH (80°-90°)	72.1	0.2			G1/100
BL (0°-30°)	2737.4	8.7	B4/5000		
BM (30°-60°)	11430.3	36.1	B5		
BH (60°-80°)	1571.2	5.0	B3/2500		G1/1800
BVH (80°-90°)	72.1	0.2			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°	5286.0	5286.0	5286.0	5286.0	5286.0	5286.0	5286.0	5286.0	5286.0	5286.0	5286.0
2.5°	5297.8	5242.9	5262.5	5274.3	5325.3	5321.4	5309.6	5325.3	5341.0	5344.9	5337.0
5°	5293.9	5254.6	5270.3	5282.1	5333.1	5360.6	5352.7	5419.5	5466.6	5454.8	5513.6
7.5°	5262.5	5286.0	5266.4	5325.3	5368.4	5435.2	5505.8	5568.6	5627.4	5694.2	5705.9
10°	5333.1	5333.1	5368.4	5415.5	5529.3	5580.4	5682.4	5772.6	5886.5	5964.9	5933.5
12.5°	5407.7	5419.5	5419.5	5541.1	5635.3	5749.1	5843.3	5964.9	6125.8	6220.0	6267.1
15°	5482.2	5490.1	5529.3	5694.2	5835.4	6016.0	6102.3	6212.2	6302.4	6479.0	6482.9
17.5°	5549.0	5592.1	5709.9	5894.3	6070.9	6243.6	6380.9	6494.7	6573.2	6643.8	6628.1
20°	5800.1	5831.5	5953.2	6137.6	6400.5	6569.3	6616.4	6636.0	6687.0	6828.3	6785.1
22.5°	6043.4	6055.2	6169.0	6451.6	6636.0	6859.7	6910.7	6898.9	6918.5	6953.9	7016.7
25°	6294.6	6314.2	6471.2	6710.6	6969.6	7236.4	7279.6	7189.3	7161.9	7201.1	7205.0
27.5°	6616.4	6620.3	6820.4	7028.4	7322.7	7573.9	7640.6	7570.0	7440.5	7471.9	7522.9
30°	7024.5	6997.0	7197.2	7495.4	7805.4	7946.7	8060.5	8025.2	7883.9	7856.5	7813.3
32.5°	7495.4	7503.3	7683.8	8009.5	8213.6	8449.0	8570.7	8511.8	8421.6	8374.5	8401.9
35°	8158.6	8193.9	8315.6	8586.4	8916.0	9033.7	9226.0	9100.5	8865.0	8923.9	8974.9
37.5°	8704.1	8806.1	9033.7	9355.5	9551.7	9767.6	9838.2	9669.5	9496.8	9426.2	9594.9
40°	9540.0	9508.6	9759.7	10081.5	10371.9	10587.8	10497.5	10328.8	9901.0	9904.9	9952.0
42.5°	10258.1	10273.8	10466.1	10850.7	11247.0	11380.5	11094.0	10681.9	10207.1	10156.1	10258.1
45°	10862.5	10925.3	11035.1	11549.2	11937.7	12082.9	11553.1	11066.5	10430.8	10218.9	10387.6
47.5°	11078.3	11180.3	11419.7	11890.6	12275.2	12392.9	11969.1	11270.6	10638.8	10293.4	10383.7
50°	11109.7	11074.4	11466.8	11898.5	12236.0	12491.1	12118.2	11419.7	10587.8	10407.2	10379.8
52.5°	10250.3	10422.9	10842.8	11435.4	12118.2	12526.4	12251.7	11502.1	10658.4	10454.3	10387.6
55°	8296.0	8091.9	8857.1	9853.9	11109.7	12243.8	12204.6	11545.3	10701.6	10532.8	10442.6
57.5°	4630.7	4689.5	5121.2	6204.3	7825.1	9708.7	10850.7	11090.1	10681.9	10583.8	10630.9
60°	2142.7	2162.3	2346.7	2853.0	3857.6	5505.8	7008.8	8535.4	9237.8	9379.1	9379.1
62.5°	1597.2	1589.3	1636.4	1726.7	1938.6	2531.2	3378.8	4591.4	5556.8	6231.8	6408.4
65°	1444.1	1440.2	1463.8	1495.2	1510.9	1593.3	1781.6	2154.4	2468.4	2648.9	2617.5
67.5°	1263.6	1259.7	1267.5	1287.2	1314.6	1357.8	1404.9	1483.4	1593.3	1585.4	1565.8
70°	1020.3	1020.3	1032.1	1047.8	1079.2	1130.2	1185.1	1240.1	1334.3	1353.9	1350.0
72.5°	753.5	741.7	765.2	796.6	828.0	890.8	949.7	1000.7	1067.4	1087.0	1079.2
75°	478.8	486.6	502.3	537.6	592.6	635.7	698.5	741.7	784.9	800.6	804.5
77.5°	266.9	274.7	302.2	345.3	400.3	447.4	502.3	537.6	565.1	569.0	572.9
80°	160.9	164.8	192.3	231.5	278.6	329.6	372.8	408.1	431.7	419.9	416.0
82.5°	98.1	102.0	125.6	160.9	200.1	239.4	286.5	317.9	341.4	325.7	310.0
85°	51.0	54.9	74.6	98.1	129.5	149.1	149.1	133.4	129.5	121.7	117.7
87.5°	15.7	15.7	19.6	23.5	19.6	23.5	27.5	31.4	31.4	35.3	31.4
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)