

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: P534280

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534280
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-SA9D-735-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 57664 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

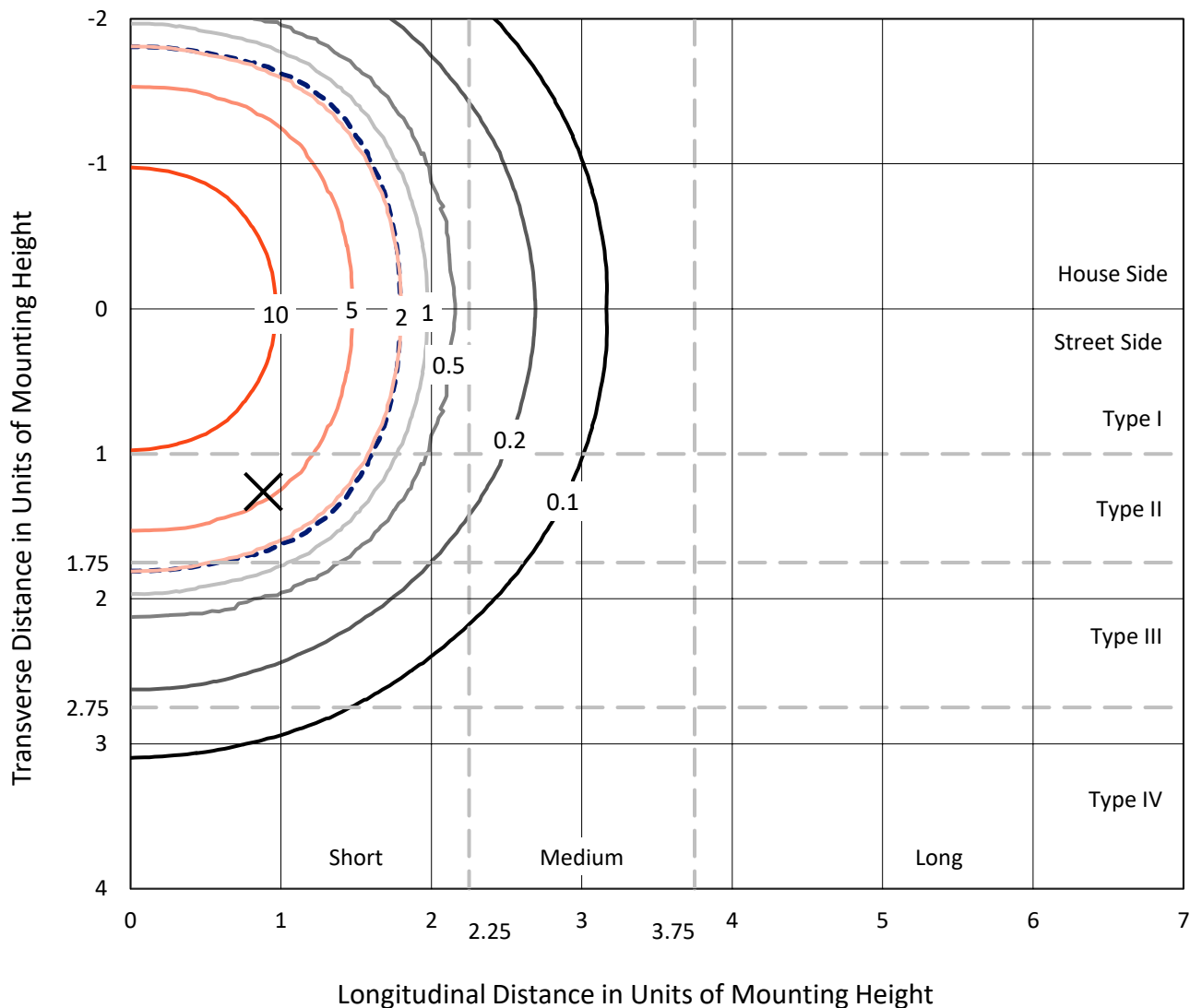
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

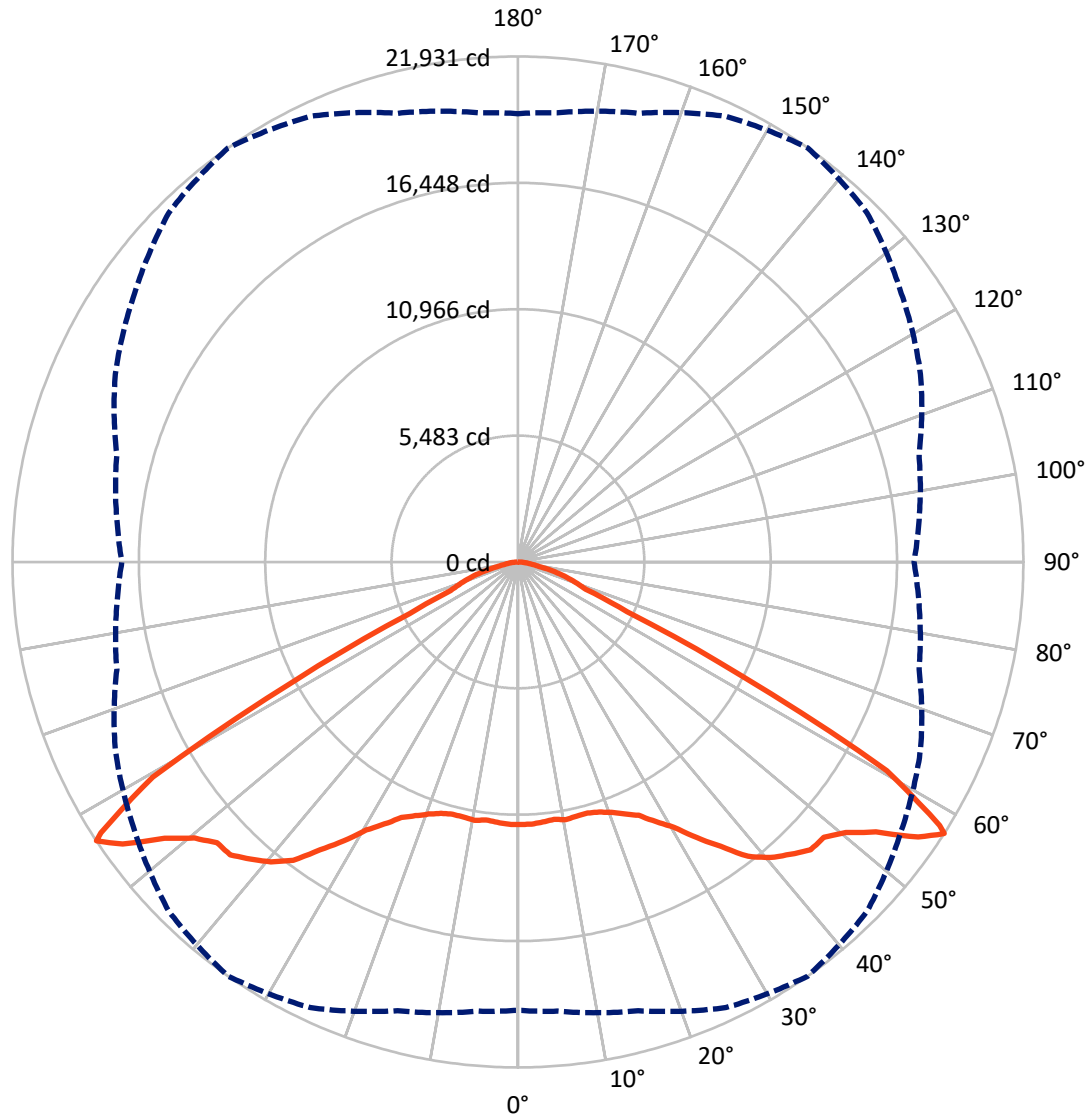
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	28832.0	0.0	28832.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	28832.0	0.0	28832.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	57664.0	0.0	57664.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1079.6	1.9
10°-20°	3197.6	5.5
20°-30°	5584.6	9.7
30°-40°	9150.5	15.9
40°-50°	13416.8	23.3
50°-60°	16899.5	29.3
60°-70°	6355.8	11.0
70°-80°	1690.0	2.9
80°-90°	289.8	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°	57664.0	100.0
0°-180°	57664.0	100.0

Coefficient of Utilization



REPORT NUMBER: P534280

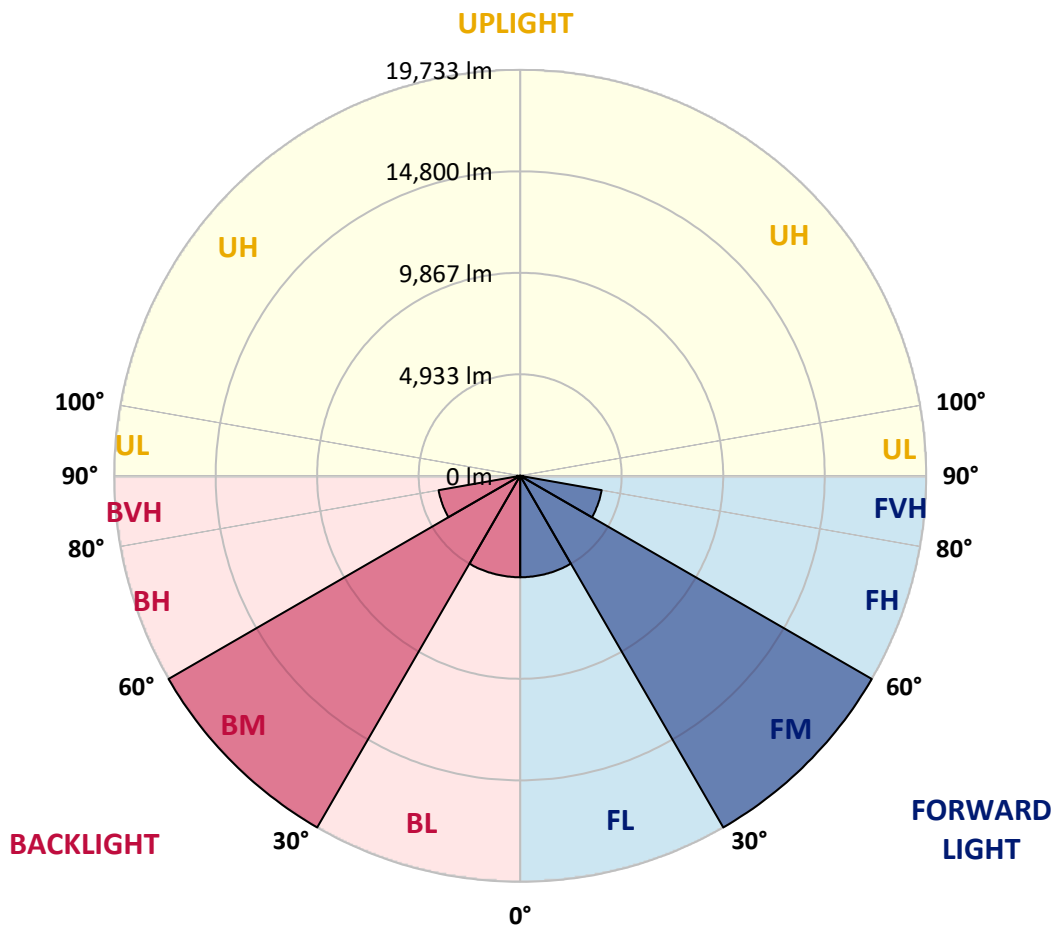
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4930.9	8.6			
FM (30°-60°)	19733.4	34.2			
FH (60°-80°)	4022.9	7.0			G2/5000
FVH (80°-90°)	144.9	0.3			G2/225
BL (0°-30°)	4930.9	8.6	B4/5000		
BM (30°-60°)	19733.4	34.2	B5		
BH (60°-80°)	4022.9	7.0	B4/5000		G2/5000
BVH (80°-90°)	144.9	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-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	11388.2	11388.2	11388.2	11388.2	11388.2	11388.2	11388.2	11388.2	11388.2	11388.2	11388.2
2.5°	11331.4	11445.0	11395.3	11366.9	11388.2	11352.7	11295.9	11359.8	11345.6	11288.8	11267.4
5°	11303.0	11388.2	11331.4	11388.2	11331.4	11430.8	11402.4	11295.9	11423.7	11303.0	11345.6
7.5°	11281.7	11310.1	11324.3	11295.9	11274.5	11395.3	11331.4	11281.7	11210.6	11189.3	11224.8
10°	11231.9	11303.0	11196.4	11338.5	11366.9	11281.7	11281.7	11189.3	11132.5	11096.9	11217.7
12.5°	11359.8	11239.0	11224.8	11295.9	11317.2	11352.7	11253.2	11203.5	11096.9	11111.1	11089.8
15°	11210.6	11260.3	11267.4	11281.7	11303.0	11388.2	11295.9	11189.3	11146.7	10997.5	11011.7
17.5°	11267.4	11217.7	11267.4	11430.8	11402.4	11466.4	11366.9	11203.5	11104.0	11018.8	11132.5
20°	11366.9	11345.6	11366.9	11565.8	11601.3	11658.2	11572.9	11423.7	11231.9	11132.5	11189.3
22.5°	11473.5	11459.3	11473.5	11665.3	11871.3	11942.4	11857.1	11509.0	11409.5	11224.8	11160.9
25°	11665.3	11679.5	11828.7	12041.8	12176.8	12311.8	12155.5	11906.8	11587.1	11473.5	11338.5
27.5°	12091.5	12127.1	12212.3	12524.9	12759.3	12880.1	12659.9	12318.9	12120.0	11885.5	11850.0
30°	12617.3	12617.3	12766.5	13036.4	13356.1	13540.8	13270.9	12865.9	12624.4	12496.5	12418.3
32.5°	13313.5	13235.3	13292.2	13768.2	14265.5	14421.8	14059.4	13562.1	13178.5	13008.0	12951.2
35°	13910.2	13960.0	14087.9	14599.4	15153.5	15515.8	14947.5	14301.0	13910.2	13754.0	13725.5
37.5°	14684.6	14769.9	14833.8	15537.1	16204.9	16339.9	15792.9	15274.3	14798.3	14670.4	14599.4
40°	15778.7	15721.8	15743.2	16261.8	16865.6	16950.9	16411.0	16041.5	15650.8	15572.7	15572.7
42.5°	16680.9	16617.0	16688.0	16879.8	17341.6	17277.7	16979.3	16709.3	16545.9	16460.7	16545.9
45°	17228.0	17213.8	17341.6	17483.7	17810.5	17597.4	17362.9	17405.6	17249.3	17107.2	17100.1
47.5°	17824.7	17732.4	17888.7	18101.8	17853.1	17753.7	17739.5	17831.8	17782.1	17533.4	17455.3
50°	18116.0	18080.5	18329.1	18577.8	18442.8	18215.5	18265.2	18414.4	17775.0	17441.1	17249.3
52.5°	18897.5	18904.6	19380.6	19515.6	19458.7	19124.8	19231.4	18826.4	18073.4	17604.5	17625.8
55°	20126.5	20076.8	20609.6	21007.5	21071.4	20645.1	20133.6	19565.3	18620.4	18144.4	18002.3
57°	19451.6	19565.3	20154.9	21334.3	21931.0	21426.6	20311.2	19274.0	18016.5	17441.1	17185.3
57.5°	18549.4	18734.1	19757.1	20943.5	21568.7	21526.1	20091.0	18734.1	17611.6	16716.5	16737.8
60°	13590.6	13626.1	14549.6	16432.3	18386.0	18428.6	16680.9	14883.5	13633.2	12659.9	12794.9
62.5°	7168.3	7331.7	7701.1	9214.3	10905.1	11317.2	10258.6	9335.1	8255.2	7516.4	7587.4
65°	3793.7	3772.4	3950.0	4376.3	5207.5	5420.6	5278.5	4546.8	4170.2	4049.5	4056.6
67.5°	3083.3	3118.8	3097.5	3118.8	3175.6	3268.0	3246.7	3275.1	3296.4	3331.9	3324.8
70°	2614.4	2614.4	2628.6	2635.7	2635.7	2678.3	2728.1	2820.4	2827.5	2863.0	2877.2
72.5°	2060.3	2046.0	2067.4	2117.1	2124.2	2159.7	2230.8	2287.6	2308.9	2308.9	2266.3
75°	1399.5	1413.8	1442.2	1484.8	1527.4	1591.4	1648.2	1683.7	1697.9	1676.6	1655.3
77.5°	788.6	802.8	824.1	888.0	937.8	994.6	1058.5	1094.1	1129.6	1136.7	1094.1
80°	468.9	468.9	504.4	554.1	611.0	667.8	724.6	767.3	781.5	781.5	760.2
82.5°	284.2	291.3	319.7	369.4	419.2	454.7	504.4	539.9	568.3	561.2	547.0
85°	149.2	149.2	177.6	220.2	255.8	291.3	291.3	270.0	255.8	220.2	206.0
87.5°	49.7	42.6	56.8	56.8	49.7	56.8	56.8	63.9	63.9	63.9	63.9
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)