

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: P533296

Luminaire Tested: **GALN-SA8D-727-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533296
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-SA8D-727-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 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: 44321 lumens
Efficiency: N/A
Efficacy: 89.9 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

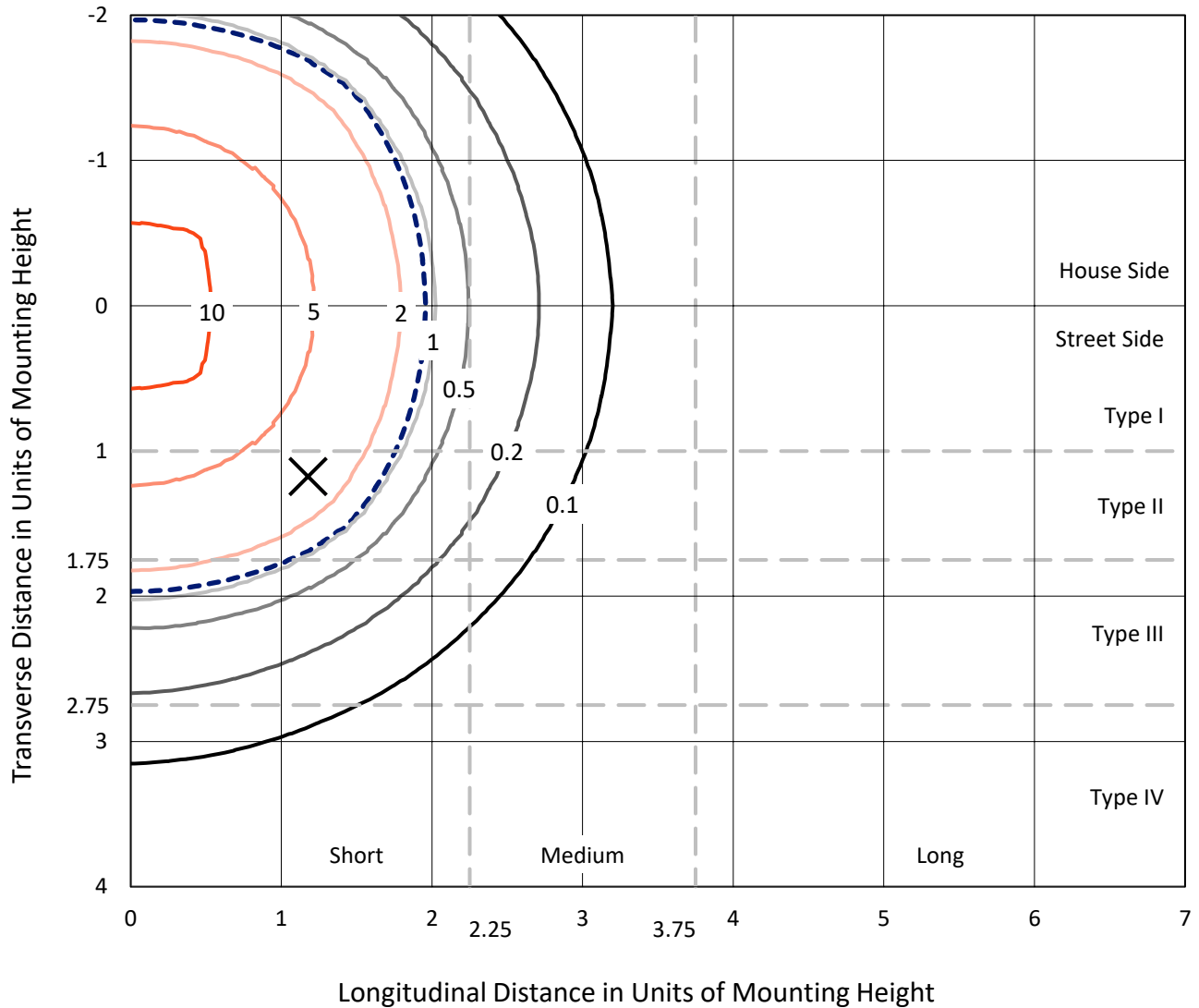
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

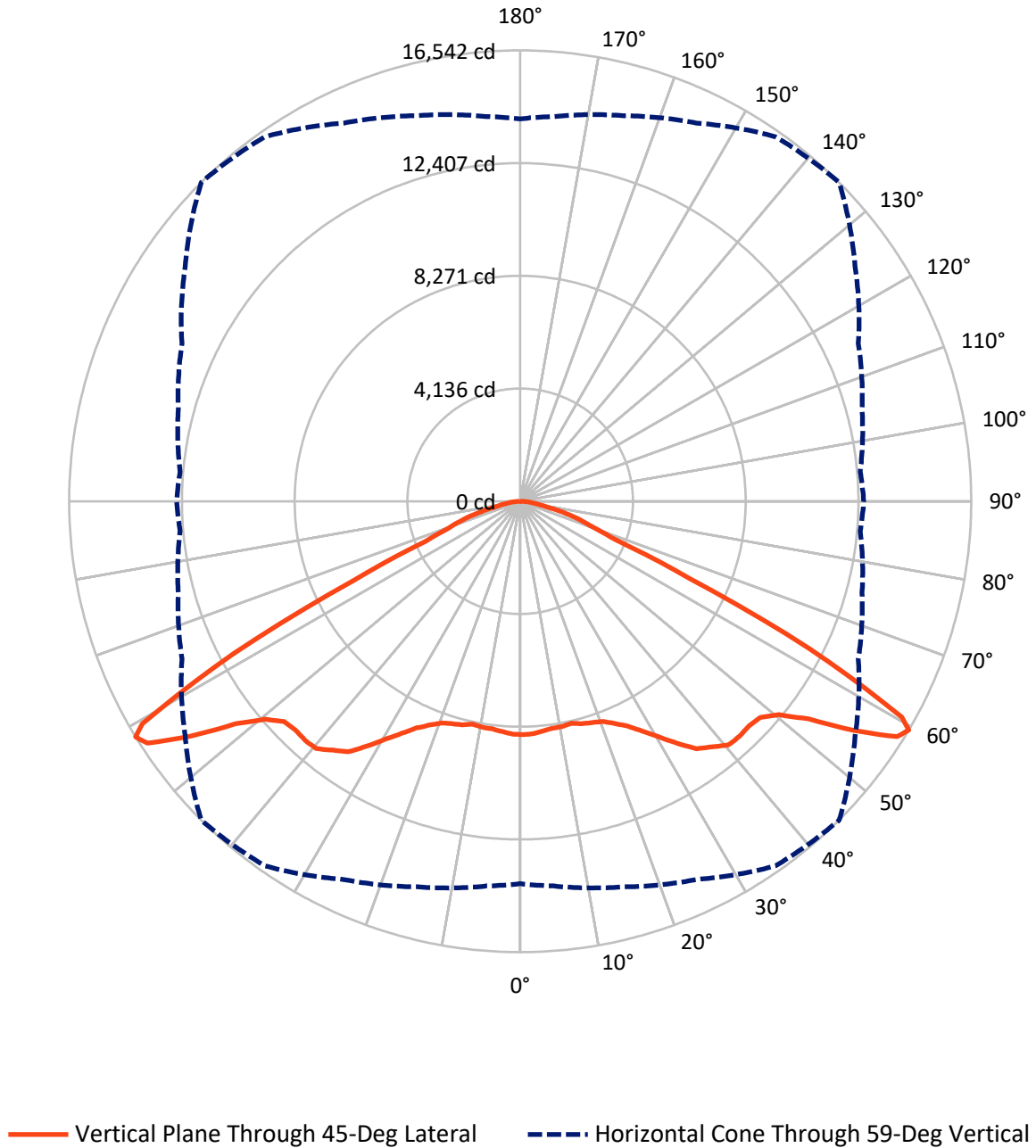
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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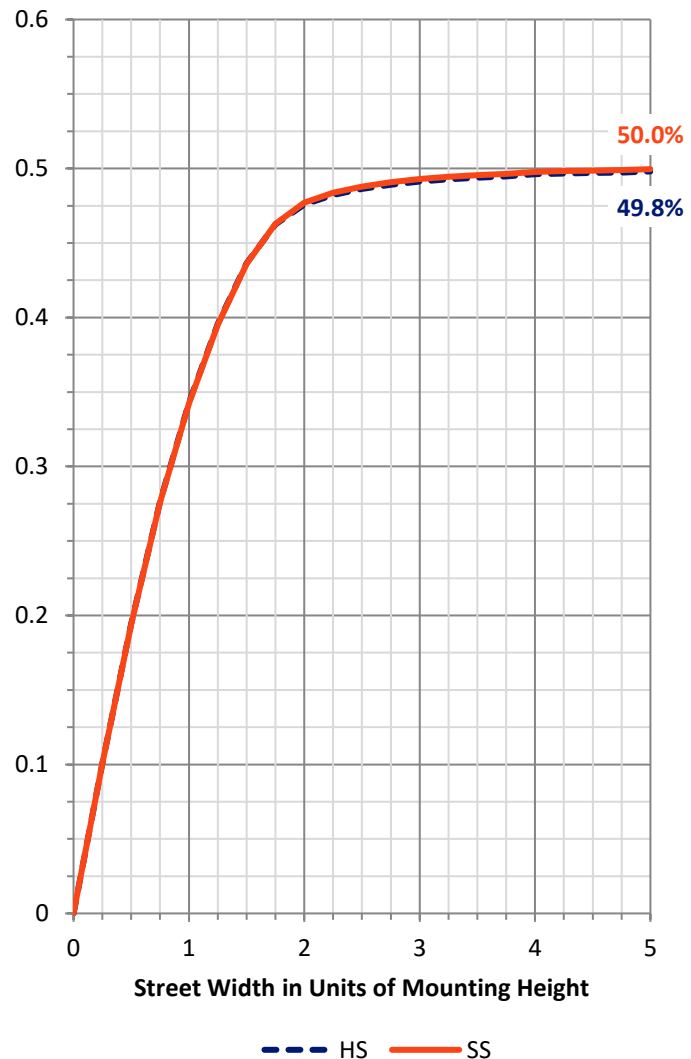
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	22160.5	0.0	22160.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	22160.5	0.0	22160.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	44321.0	0.0	44321.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	807.0	1.8
10°-20°	2399.9	5.4
20°-30°	4190.5	9.5
30°-40°	6692.8	15.1
40°-50°	9116.9	20.6
50°-60°	12328.5	27.8
60°-70°	6761.0	15.3
70°-80°	1729.7	3.9
80°-90°	295.0	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°	44321.0	100.0
0°-180°	44321.0	100.0



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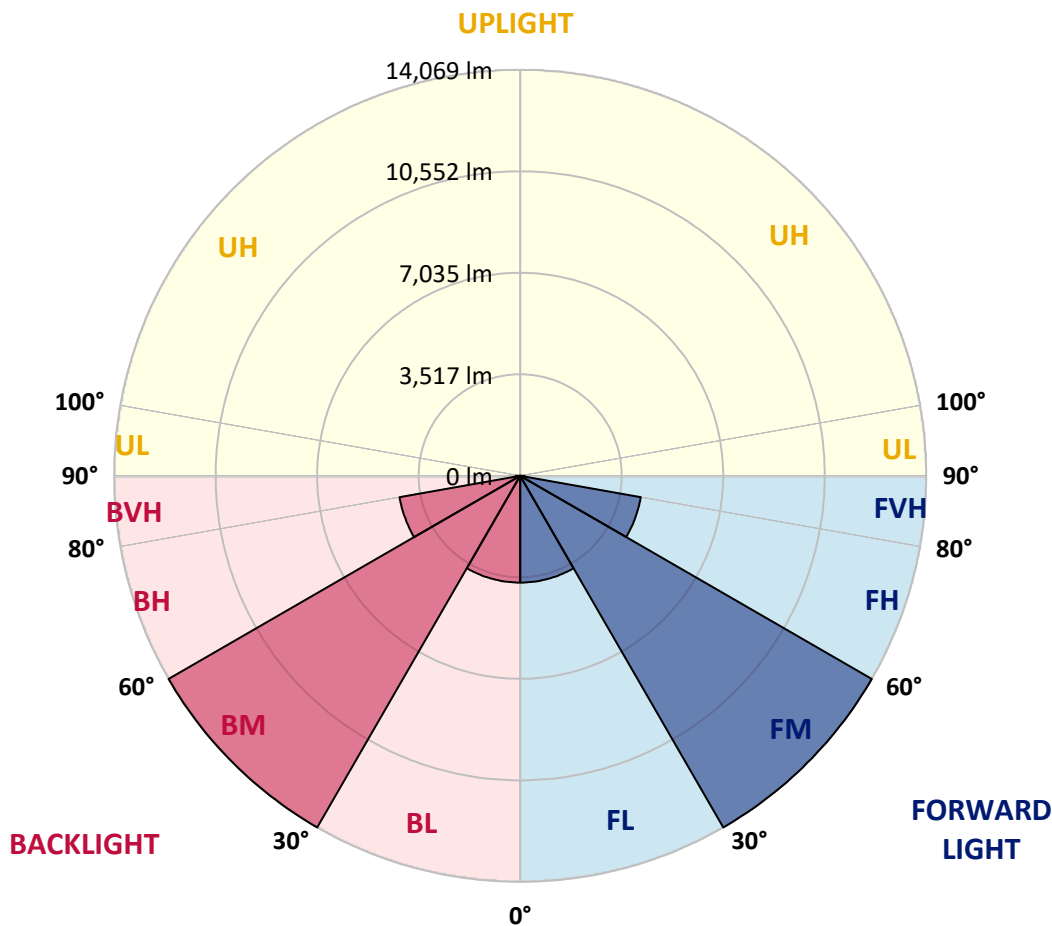
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3698.7	8.3			
FM (30°-60°)	14069.0	31.7			
FH (60°-80°)	4245.3	9.6			G2/5000
FVH (80°-90°)	147.5	0.3			G2/225
BL (0°-30°)	3698.7	8.3	B4/5000		
BM (30°-60°)	14069.0	31.7	B5		
BH (60°-80°)	4245.3	9.6	B4/5000		G2/5000
BVH (80°-90°)	147.5	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°	8560.7	8560.7	8560.7	8560.7	8560.7	8560.7	8560.7	8560.7	8560.7	8560.7	8560.7
2.5°	8509.6	8572.1	8526.6	8566.4	8560.7	8543.7	8515.3	8498.2	8475.5	8509.6	8452.8
5°	8475.5	8526.6	8577.7	8509.6	8509.6	8475.5	8458.4	8424.4	8424.4	8418.7	8413.0
7.5°	8532.3	8481.2	8458.4	8469.8	8481.2	8407.3	8458.4	8390.3	8333.5	8373.2	8418.7
10°	8481.2	8503.9	8418.7	8458.4	8396.0	8407.3	8373.2	8418.7	8356.2	8356.2	8356.2
12.5°	8532.3	8469.8	8498.2	8469.8	8452.8	8356.2	8401.6	8350.5	8344.8	8401.6	8350.5
15°	8634.5	8532.3	8509.6	8452.8	8469.8	8469.8	8424.4	8430.0	8367.6	8401.6	8413.0
17.5°	8600.5	8543.7	8526.6	8458.4	8515.3	8532.3	8447.1	8390.3	8430.0	8424.4	8418.7
20°	8628.9	8651.6	8634.5	8645.9	8668.6	8623.2	8543.7	8464.1	8413.0	8486.8	8481.2
22.5°	8810.6	8787.9	8776.6	8765.2	8805.0	8850.4	8742.5	8617.5	8617.5	8668.6	8691.4
25°	8958.3	8952.7	8947.0	8998.1	9134.4	9134.4	8998.1	8839.0	8799.3	8833.4	8805.0
27.5°	9174.2	9236.7	9214.0	9304.9	9503.7	9549.1	9367.3	9179.9	9072.0	9032.2	9083.3
30°	9668.4	9594.6	9611.6	9708.2	9884.3	10032.0	9753.6	9554.8	9407.1	9401.4	9424.2
32.5°	9997.9	10054.7	10105.8	10196.7	10475.1	10588.7	10253.5	9929.7	9838.8	9787.7	9804.8
35°	10656.8	10605.7	10594.4	10685.3	10963.6	11151.1	10730.7	10446.7	10327.4	10441.0	10441.0
37.5°	11281.7	11139.7	11031.8	11151.1	11406.7	11429.4	11071.5	10918.2	10855.7	10986.3	10980.6
40°	11577.1	11565.7	11315.8	11384.0	11724.8	11758.9	11423.7	11242.0	11230.6	11401.0	11571.4
42.5°	11883.9	11775.9	11526.0	11571.4	11781.6	11793.0	11474.9	11423.7	11548.7	11713.4	11724.8
45°	11935.0	11844.1	11685.0	11571.4	11724.8	11758.9	11571.4	11605.5	11616.9	11815.7	11815.7
47.5°	12037.2	12025.9	11935.0	11849.8	11878.2	11849.8	11730.5	11781.6	11952.0	12048.6	12003.2
50°	12321.3	12202.0	12292.9	12219.0	12224.7	12304.2	12196.3	12247.4	12213.3	12128.1	12071.3
52.5°	12946.1	12889.3	12968.9	13020.0	13076.8	13258.6	13133.6	12860.9	12605.3	12378.1	12372.4
55°	13860.7	13900.5	14053.9	14315.2	14536.7	14826.4	14224.3	13571.0	13162.0	12804.1	12826.8
57.5°	14724.2	14695.8	14906.0	15502.4	16150.0	16297.7	15116.1	14184.5	13519.9	13292.7	13196.1
59°	14031.1	14167.5	14644.6	15309.3	16326.1	16542.0	14996.8	13684.6	12980.2	12520.1	12599.6
60°	12940.5	12991.6	13417.6	14343.6	15718.3	16087.5	14195.9	12912.1	11974.8	11707.8	11827.1
62.5°	9145.8	9106.0	9412.8	10168.3	11401.0	11900.9	10554.6	9651.4	9060.6	8765.2	8833.4
65°	4862.6	5044.4	5169.4	5640.9	6294.1	6822.4	6265.7	5873.8	5544.3	5300.0	5294.3
67.5°	3283.4	3260.7	3289.1	3397.0	3618.6	3766.3	3754.9	3556.1	3527.7	3482.2	3533.3
70°	2766.5	2755.1	2704.0	2704.0	2749.4	2783.5	2823.3	2846.0	2891.4	2948.2	2942.6
72.5°	2243.8	2215.4	2181.4	2164.3	2221.1	2238.2	2289.3	2312.0	2351.8	2346.1	2397.2
75°	1482.6	1482.6	1522.4	1567.9	1584.9	1619.0	1624.7	1692.8	1692.8	1704.2	1658.7
77.5°	829.4	806.6	835.1	880.5	920.3	982.7	1045.2	1096.4	1124.8	1113.4	1113.4
80°	482.9	482.9	511.3	562.4	613.5	670.3	715.8	755.5	783.9	772.6	749.8
82.5°	301.1	301.1	329.5	380.6	420.4	454.4	516.9	568.1	602.1	590.8	562.4
85°	153.4	153.4	187.5	221.5	272.7	295.4	289.7	267.0	261.3	232.9	232.9
87.5°	39.8	39.8	56.8	62.5	51.1	56.8	56.8	56.8	56.8	56.8	62.5
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)