

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: P532438

Luminaire Tested: **GALN-SA7D-740-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532438
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-SA7D-740-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 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: 45712 lumens
Efficiency: N/A
Efficacy: 105.6 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

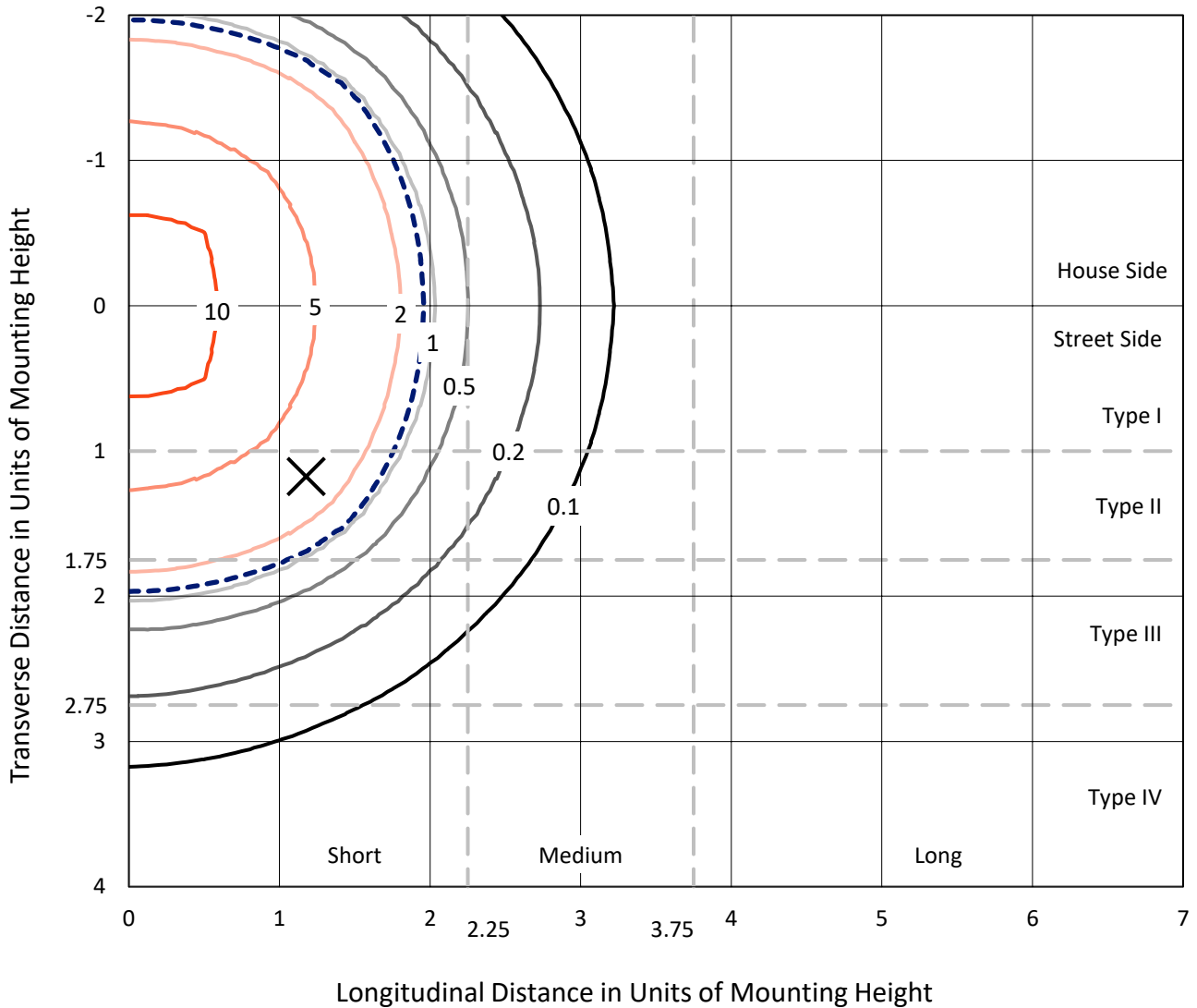
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

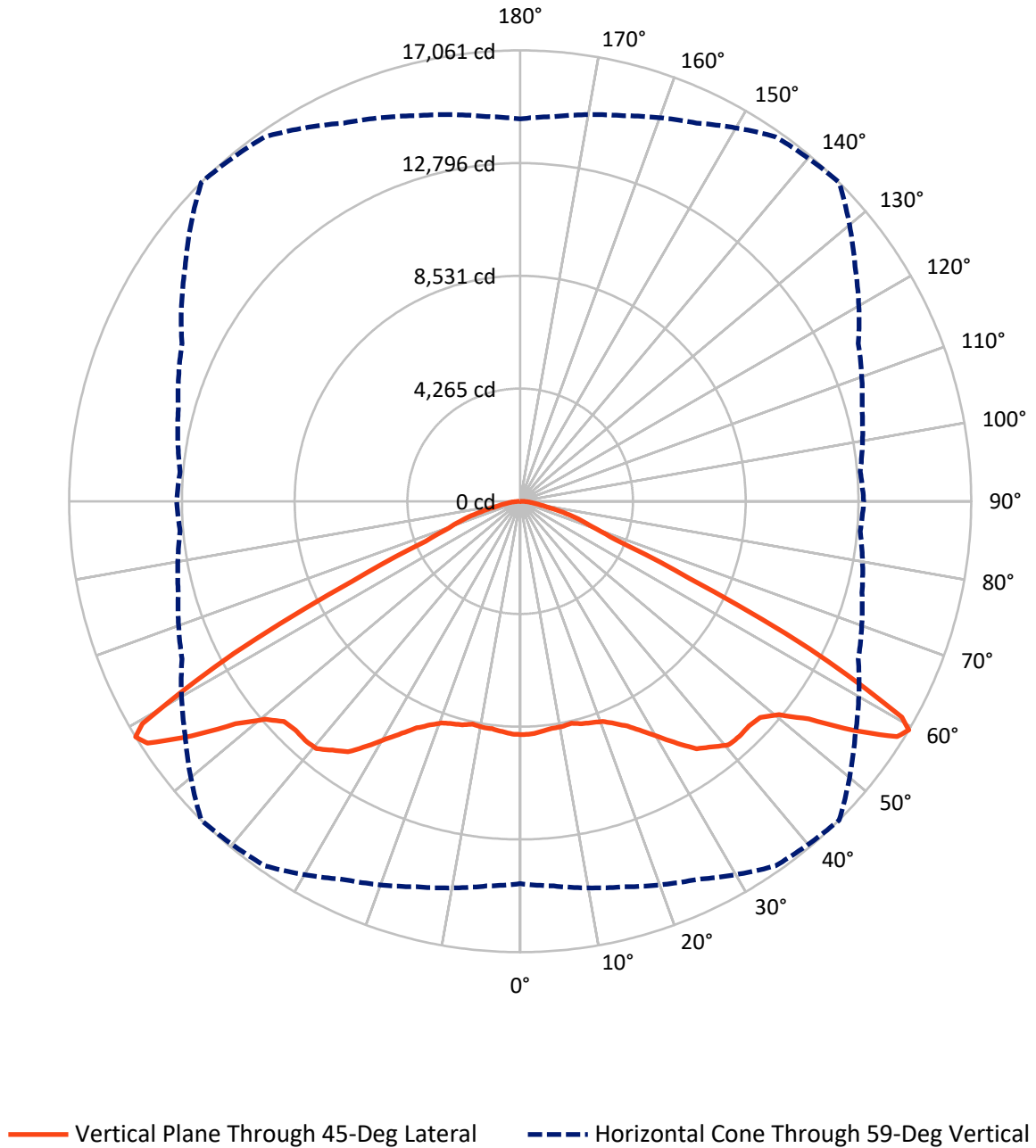
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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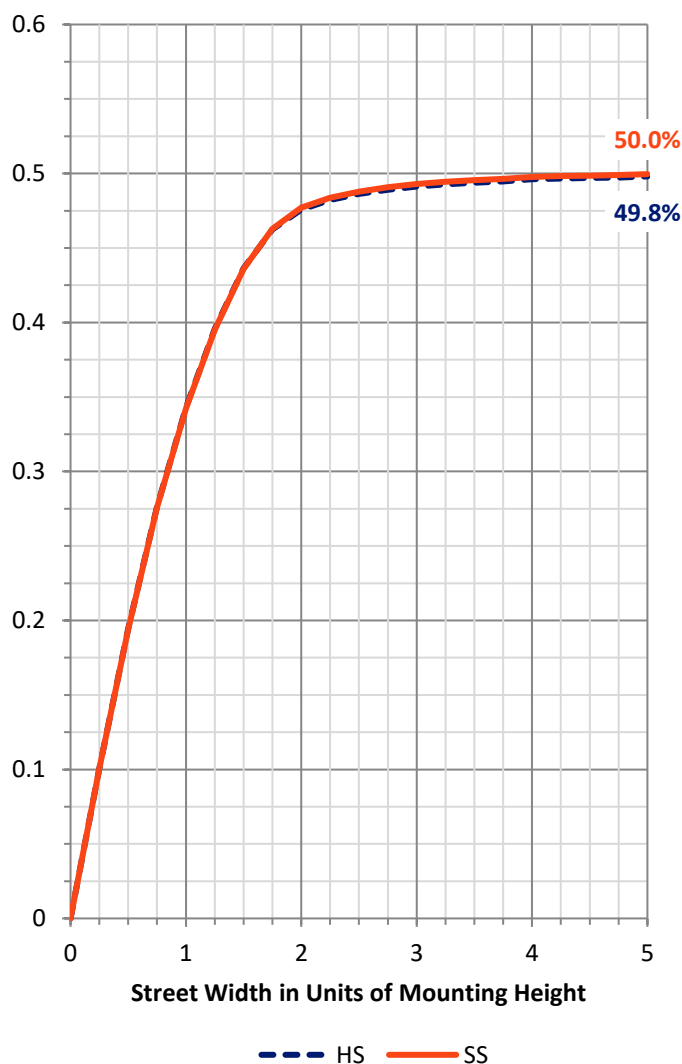
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	22856.0	0.0	22856.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	22856.0	0.0	22856.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	45712.0	0.0	45712.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	832.3	1.8
10°-20°	2475.2	5.4
20°-30°	4322.0	9.5
30°-40°	6902.8	15.1
40°-50°	9403.0	20.6
50°-60°	12715.4	27.8
60°-70°	6973.1	15.3
70°-80°	1783.9	3.9
80°-90°	304.2	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°	45712.0	100.0
0°-180°	45712.0	100.0

Coefficient of Utilization



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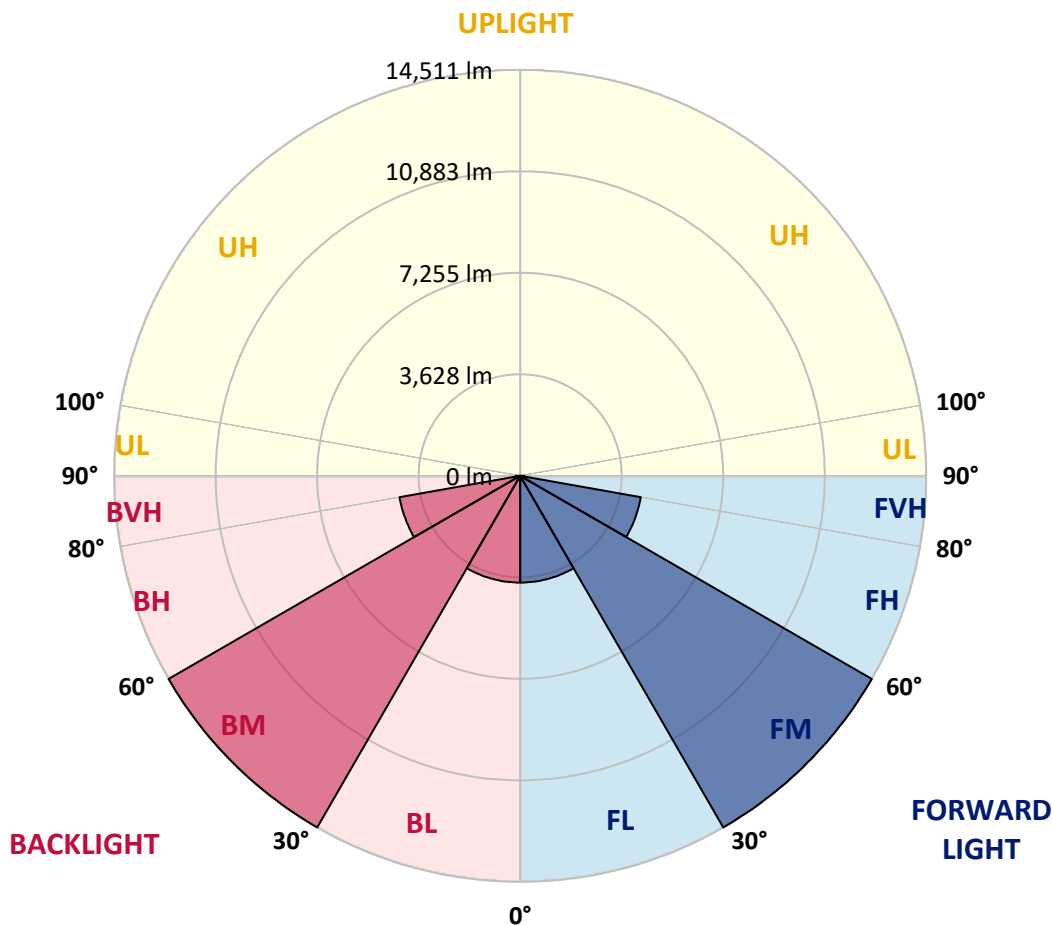
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3814.7	8.3			
FM (30°-60°)	14510.6	31.7			
FH (60°-80°)	4378.5	9.6			G2/5000
FVH (80°-90°)	152.1	0.3			G2/225
BL (0°-30°)	3814.7	8.3	B4/5000		
BM (30°-60°)	14510.6	31.7	B5		
BH (60°-80°)	4378.5	9.6	B4/5000		G2/5000
BVH (80°-90°)	152.1	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°	8829.4	8829.4	8829.4	8829.4	8829.4	8829.4	8829.4	8829.4	8829.4	8829.4	8829.4
2.5°	8776.6	8841.1	8794.2	8835.2	8829.4	8811.8	8782.5	8764.9	8741.5	8776.6	8718.1
5°	8741.5	8794.2	8846.9	8776.6	8776.6	8741.5	8723.9	8688.8	8688.8	8682.9	8677.0
7.5°	8800.1	8747.3	8723.9	8735.6	8747.3	8671.2	8723.9	8653.6	8595.0	8636.0	8682.9
10°	8747.3	8770.8	8682.9	8723.9	8659.5	8671.2	8636.0	8682.9	8618.5	8618.5	8618.5
12.5°	8800.1	8735.6	8764.9	8735.6	8718.1	8618.5	8665.3	8612.6	8606.7	8665.3	8612.6
15°	8905.5	8800.1	8776.6	8718.1	8735.6	8735.6	8688.8	8694.6	8630.2	8665.3	8677.0
17.5°	8870.4	8811.8	8794.2	8723.9	8782.5	8800.1	8712.2	8653.6	8694.6	8688.8	8682.9
20°	8899.7	8923.1	8905.5	8917.3	8940.7	8893.8	8811.8	8729.8	8677.0	8753.2	8747.3
22.5°	9087.2	9063.7	9052.0	9040.3	9081.3	9128.2	9016.9	8888.0	8888.0	8940.7	8964.1
25°	9239.5	9233.6	9227.8	9280.5	9421.1	9421.1	9280.5	9116.5	9075.4	9110.6	9081.3
27.5°	9462.1	9526.6	9503.1	9596.9	9802.0	9848.8	9661.3	9468.0	9356.7	9315.7	9368.4
30°	9971.9	9895.7	9913.3	10012.9	10194.5	10346.8	10059.7	9854.7	9702.3	9696.5	9719.9
32.5°	10311.7	10370.3	10423.0	10516.7	10803.8	10921.0	10575.3	10241.4	10147.6	10094.9	10112.5
35°	10991.3	10938.6	10926.9	11020.6	11307.7	11501.0	11067.5	10774.5	10651.5	10768.7	10768.7
37.5°	11635.8	11489.3	11378.0	11501.0	11764.7	11788.1	11419.0	11260.8	11196.4	11331.1	11325.3
40°	11940.5	11928.7	11670.9	11741.2	12092.8	12127.9	11782.3	11594.8	11583.1	11758.8	11934.6
42.5°	12256.8	12145.5	11887.7	11934.6	12151.4	12163.1	11835.0	11782.3	11911.2	12081.1	12092.8
45°	12309.6	12215.8	12051.8	11934.6	12092.8	12127.9	11934.6	11969.7	11981.5	12186.5	12186.5
47.5°	12415.0	12403.3	12309.6	12221.7	12251.0	12221.7	12098.6	12151.4	12327.1	12426.7	12379.9
50°	12708.0	12584.9	12678.7	12602.5	12608.4	12690.4	12579.1	12631.8	12596.6	12508.8	12450.2
52.5°	13352.4	13293.9	13375.9	13428.6	13487.2	13674.7	13545.8	13264.6	13000.9	12766.6	12760.7
55°	14295.7	14336.7	14494.9	14764.4	14992.9	15291.7	14670.7	13996.9	13575.1	13206.0	13229.4
57.5°	15186.3	15157.0	15373.8	15989.0	16656.9	16809.2	15590.6	14629.7	13944.2	13709.8	13610.2
59°	14471.5	14612.1	15104.3	15789.8	16838.5	17061.1	15467.5	14114.1	13387.6	12913.0	12995.1
60°	13346.6	13399.3	13838.7	14793.7	16211.6	16592.4	14641.4	13317.3	12350.6	12075.2	12198.2
62.5°	9432.8	9391.8	9708.2	10487.4	11758.8	12274.4	10885.8	9954.3	9345.0	9040.3	9110.6
65°	5015.2	5202.7	5331.6	5817.9	6491.7	7036.5	6462.4	6058.1	5718.3	5466.4	5460.5
67.5°	3386.4	3363.0	3392.3	3503.6	3732.1	3884.5	3872.7	3667.7	3638.4	3591.5	3644.2
70°	2853.3	2841.6	2788.8	2788.8	2835.7	2870.9	2911.9	2935.3	2982.2	3040.8	3034.9
72.5°	2314.3	2285.0	2249.8	2232.2	2290.8	2308.4	2361.1	2384.6	2425.6	2419.7	2472.5
75°	1529.2	1529.2	1570.2	1617.1	1634.6	1669.8	1675.6	1746.0	1746.0	1757.7	1710.8
77.5°	855.4	832.0	861.3	908.1	949.1	1013.6	1078.0	1130.8	1160.1	1148.3	1148.3
80°	498.0	498.0	527.3	580.0	632.8	691.4	738.2	779.2	808.5	796.8	773.4
82.5°	310.5	310.5	339.8	392.5	433.6	468.7	533.2	585.9	621.0	609.3	580.0
85°	158.2	158.2	193.3	228.5	281.2	304.7	298.8	275.4	269.5	240.2	240.2
87.5°	41.0	41.0	58.6	64.4	52.7	58.6	58.6	58.6	58.6	58.6	64.4
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)