

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: P532436

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532436
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)
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-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48532 lumens
Efficiency: N/A
Efficacy: 112.1 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

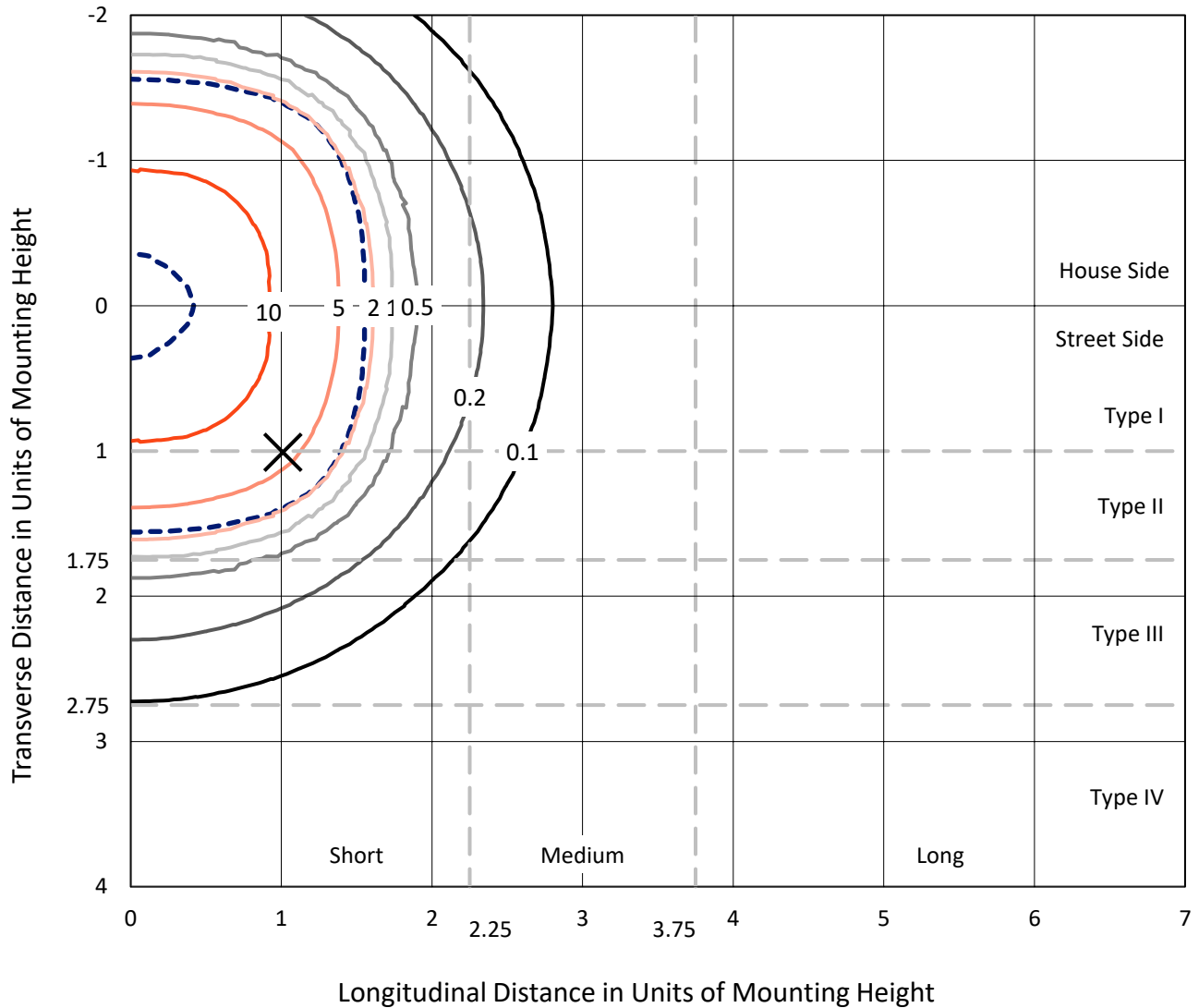
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

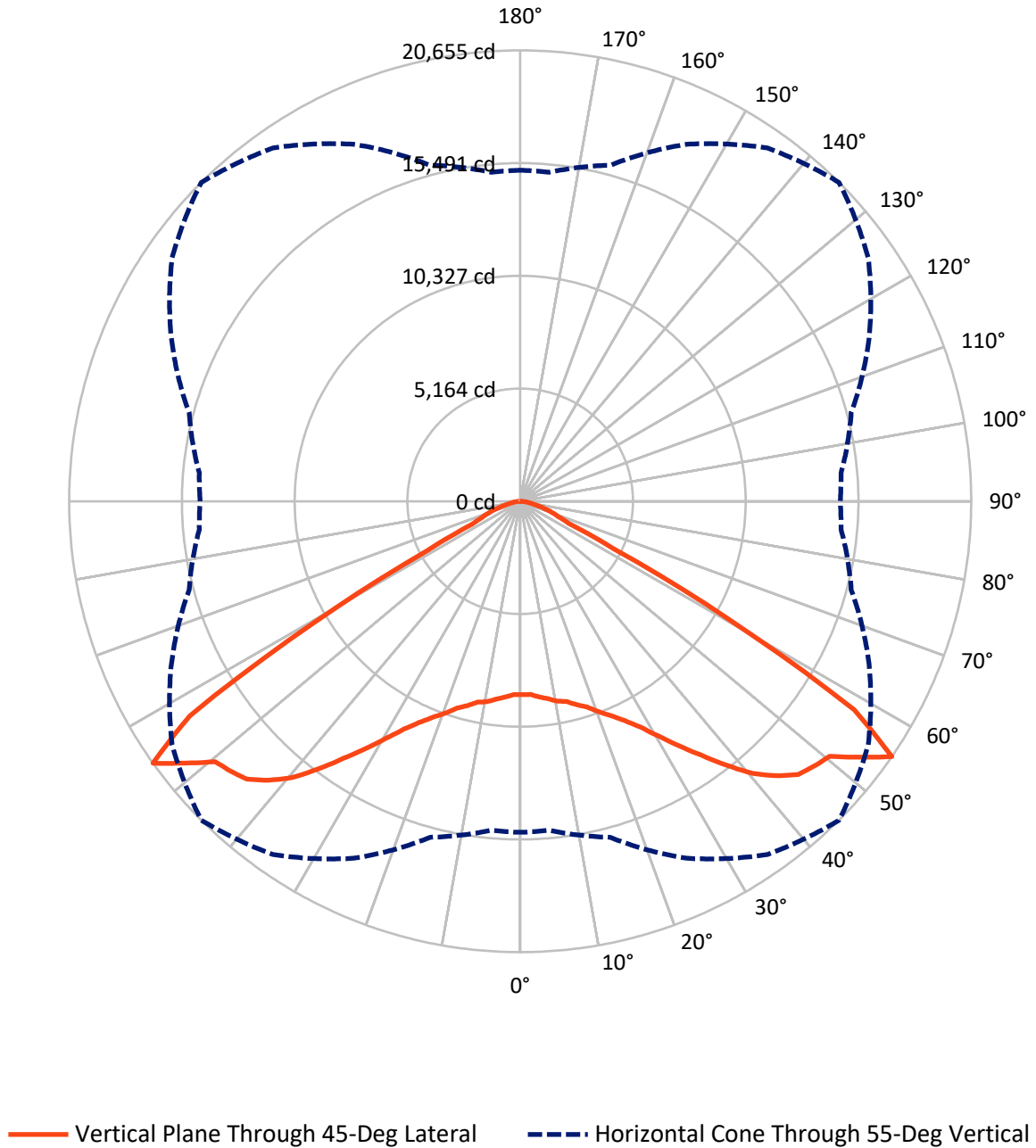
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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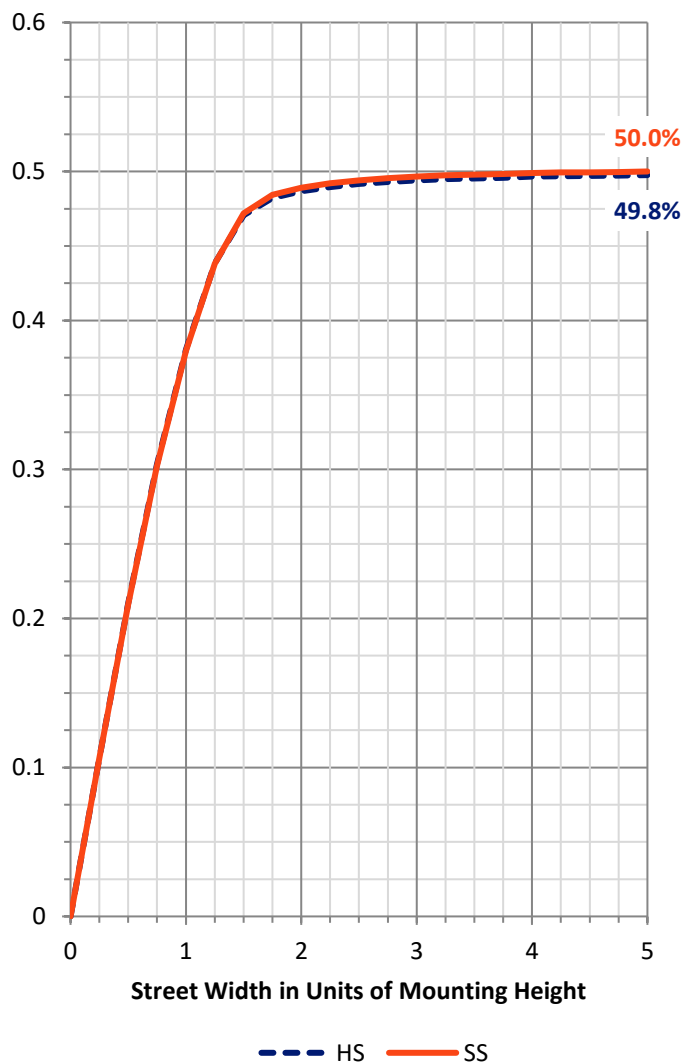
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	24266.0	0.0	24266.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	24266.0	0.0	24266.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	48532.0	0.0	48532.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	865.7	1.8
10°-20°	2742.8	5.7
20°-30°	5114.5	10.5
30°-40°	8563.4	17.6
40°-50°	13325.3	27.5
50°-60°	13835.8	28.5
60°-70°	2934.1	6.0
70°-80°	966.3	2.0
80°-90°	184.0	0.4
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°	48532.0	100.0
0°-180°	48532.0	100.0

Coefficient of Utilization



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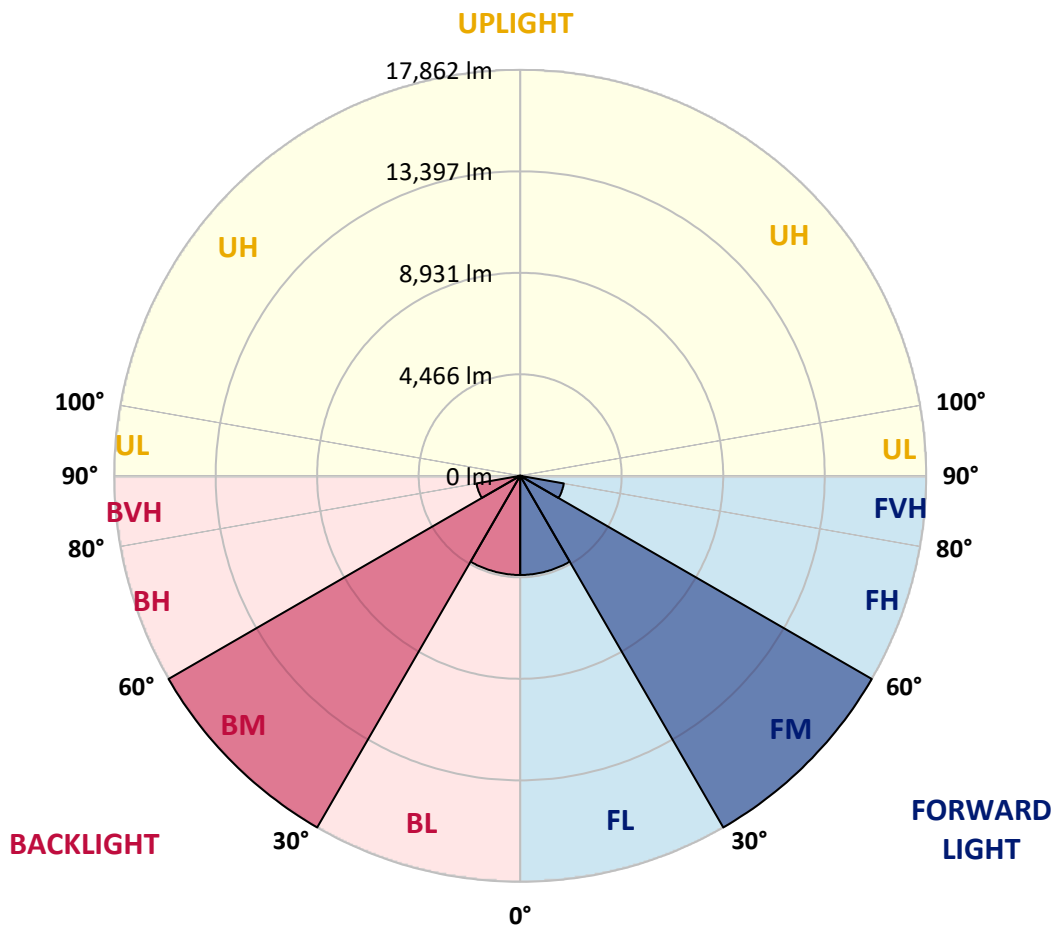
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4361.5	9.0			
FM (30°-60°)	17862.3	36.8			
FH (60°-80°)	1950.2	4.0			G2/5000
FVH (80°-90°)	92.0	0.2			G1/100
BL (0°-30°)	4361.5	9.0	B4/5000		
BM (30°-60°)	17862.3	36.8	B5		
BH (60°-80°)	1950.2	4.0	B3/2500		G2/5000
BVH (80°-90°)	92.0	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-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	8861.2	8861.2	8861.2	8861.2	8861.2	8861.2	8861.2	8861.2	8861.2	8861.2	8861.2
2.5°	8966.8	8925.7	8855.4	8908.1	8949.2	8861.2	8896.4	8914.0	8902.3	8855.4	8872.9
5°	9095.8	9072.3	9013.7	9054.7	9002.0	9002.0	8966.8	8919.9	8990.2	8978.5	9007.8
7.5°	9095.8	9066.5	9183.8	9107.5	9131.0	9131.0	9072.3	9025.4	9060.6	9007.8	8978.5
10°	9277.6	9318.6	9265.9	9283.5	9271.7	9312.8	9224.8	9195.5	9166.2	9148.6	9113.4
12.5°	9494.6	9465.3	9482.9	9471.1	9512.2	9406.6	9353.8	9289.3	9342.1	9265.9	9318.6
15°	9670.5	9652.9	9670.5	9717.4	9676.4	9670.5	9576.7	9512.2	9430.1	9447.7	9365.6
17.5°	9911.0	9893.4	9899.2	9940.3	9934.4	9905.1	9834.7	9711.6	9682.2	9635.3	9582.5
20°	10268.7	10239.4	10227.6	10245.2	10274.6	10298.0	10157.3	10110.4	10010.7	9934.4	9846.5
22.5°	10573.6	10561.9	10608.8	10532.6	10597.1	10667.5	10532.6	10509.1	10262.8	10221.8	10127.9
25°	10995.9	10978.3	10949.0	11060.4	11136.6	11130.8	11001.8	10872.7	10685.1	10638.2	10638.2
27.5°	11441.6	11341.9	11494.4	11523.7	11658.6	11699.6	11588.2	11400.5	11224.6	11124.9	11148.4
30°	11998.7	11904.9	11940.1	12151.2	12327.1	12479.6	12198.1	11922.5	11676.2	11500.2	11470.9
32.5°	12555.8	12462.0	12567.6	12772.8	13124.7	13353.4	13077.8	12596.9	12309.5	12051.5	12104.3
35°	13007.4	13077.8	13247.8	13558.7	13922.3	14291.7	13851.9	13482.4	13071.9	12784.6	12825.6
37.5°	13734.6	13951.6	14086.5	14444.2	14960.3	15341.5	14884.0	14403.1	13963.3	13588.0	13459.0
40°	14684.6	14831.3	14983.7	15406.0	16015.9	16397.1	15963.1	15335.6	14901.6	14514.6	14497.0
42.5°	15728.5	15869.3	16027.6	16543.7	16907.3	17194.6	16795.9	16461.6	15980.7	15675.7	15658.1
45°	16942.5	16842.8	17018.7	17358.8	17663.8	17851.5	17593.4	17429.2	17083.2	16801.7	16772.4
47.5°	17751.8	17663.8	17980.5	18285.4	18332.3	18127.1	18179.9	18332.3	17968.7	17505.5	17652.1
50°	18220.9	18220.9	18432.0	18713.5	18625.6	18361.7	18778.0	18789.8	18426.2	18015.7	18015.7
52.5°	17405.8	17587.6	18185.7	19106.5	19399.7	19475.9	19382.1	18983.3	18033.3	17194.6	17153.6
55°	15165.5	15124.5	15933.8	18045.0	19751.5	20654.7	19458.3	17622.7	15693.3	14749.2	14655.3
57.5°	9864.0	9911.0	11119.0	13271.3	16350.2	18033.3	16015.9	13435.5	11119.0	9817.1	9940.3
60°	4439.4	4597.7	5330.8	6937.7	9582.5	10954.8	9606.0	7289.5	5594.7	4855.8	4920.3
62.5°	2551.0	2580.4	2609.7	3096.4	4081.7	4826.5	4240.0	3272.4	2885.3	2756.3	2756.3
65°	2152.3	2134.7	2140.5	2181.6	2287.1	2439.6	2375.1	2287.1	2298.9	2287.1	2269.6
67.5°	1829.7	1853.2	1835.6	1864.9	1870.8	1894.2	1935.3	1970.5	1976.3	1988.1	1976.3
70°	1501.3	1507.2	1518.9	1542.4	1548.2	1565.8	1624.5	1653.8	1671.4	1671.4	1694.8
72.5°	1149.4	1143.6	1155.3	1178.8	1208.1	1213.9	1266.7	1307.8	1331.2	1301.9	1307.8
75°	756.5	762.4	780.0	797.6	838.6	879.7	897.3	938.3	944.2	955.9	926.6
77.5°	451.6	463.3	480.9	516.1	551.3	586.4	627.5	656.8	668.5	656.8	621.6
80°	293.2	293.2	316.7	346.0	387.1	416.4	439.8	463.3	480.9	463.3	451.6
82.5°	181.8	181.8	211.1	246.3	275.6	293.2	328.4	357.7	375.3	363.6	346.0
85°	93.8	99.7	123.2	152.5	175.9	187.7	181.8	164.2	146.6	140.7	129.0
87.5°	29.3	29.3	35.2	35.2	29.3	29.3	35.2	29.3	35.2	35.2	35.2
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)