

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: P530564

Luminaire Tested: **GALN-SA5D-740-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530564
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-SA5D-740-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 34895 lumens
Efficiency: N/A
Efficacy: 112.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

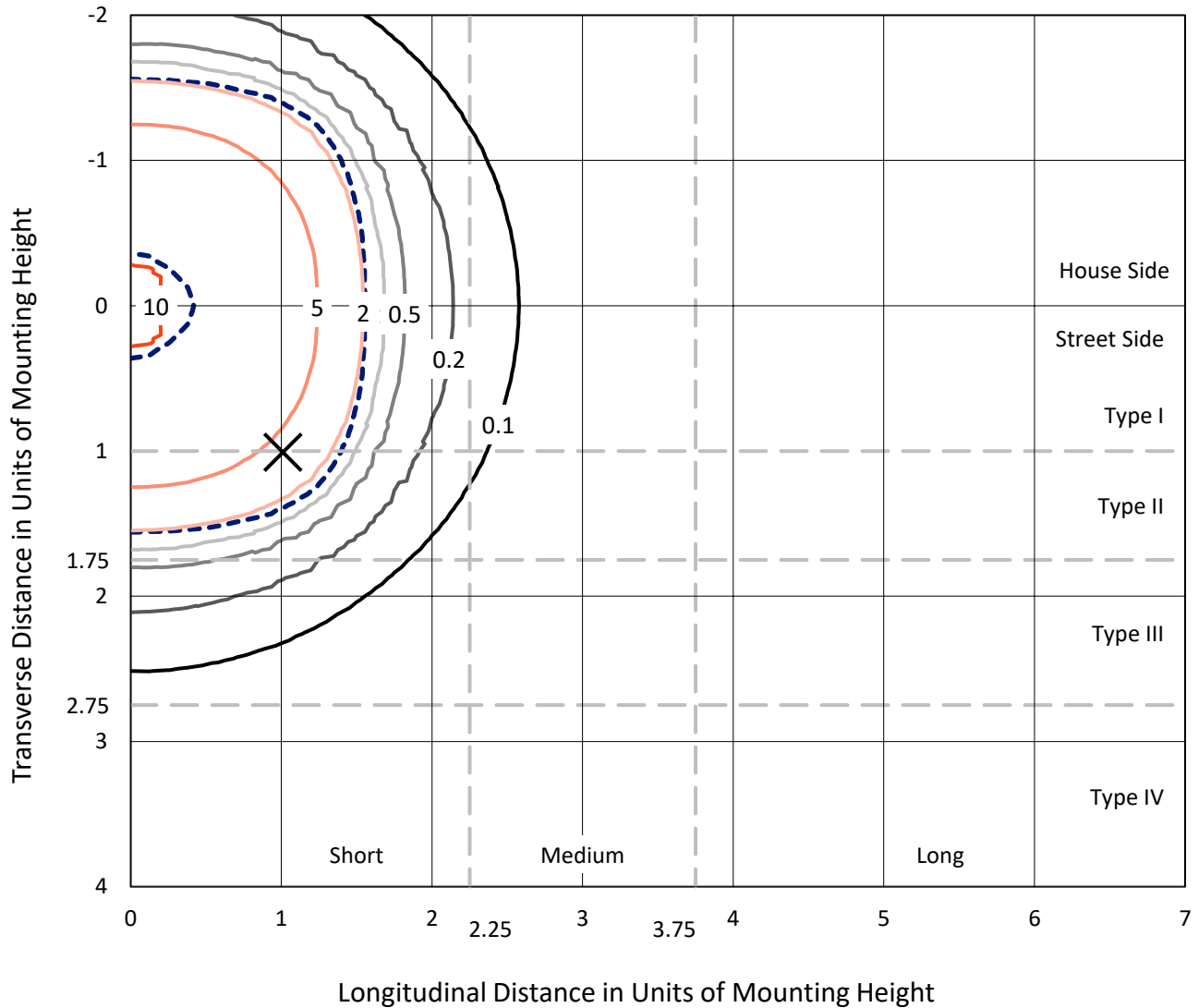
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

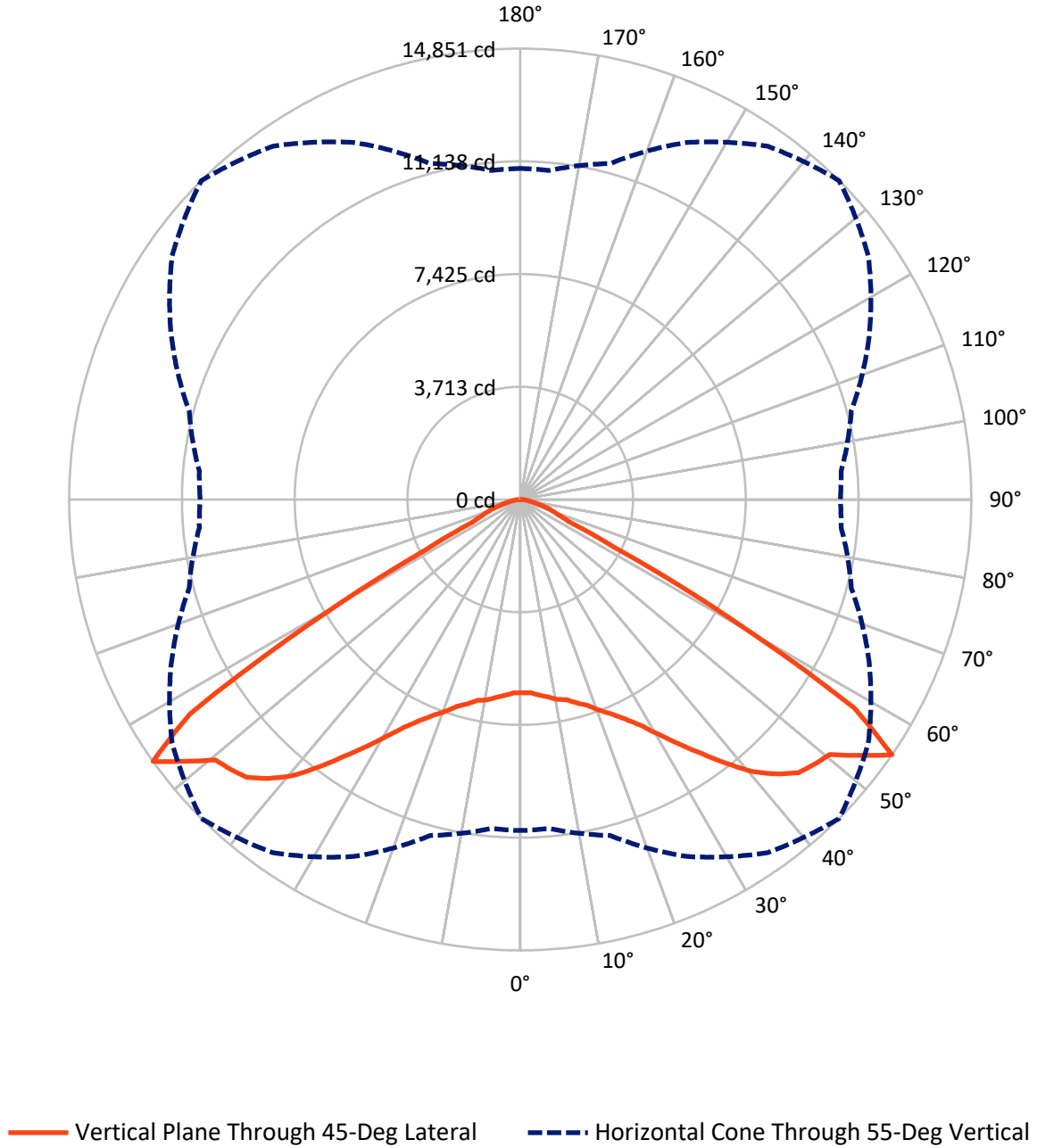
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 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	17447.5	0.0	17447.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17447.5	0.0	17447.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	34895.0	0.0	34895.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	622.4	1.8
10°-20°	1972.1	5.7
20°-30°	3677.4	10.5
30°-40°	6157.2	17.6
40°-50°	9581.0	27.5
50°-60°	9948.1	28.5
60°-70°	2109.7	6.0
70°-80°	694.8	2.0
80°-90°	132.3	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°	34895.0	100.0
0°-180°	34895.0	100.0

Coefficient of Utilization

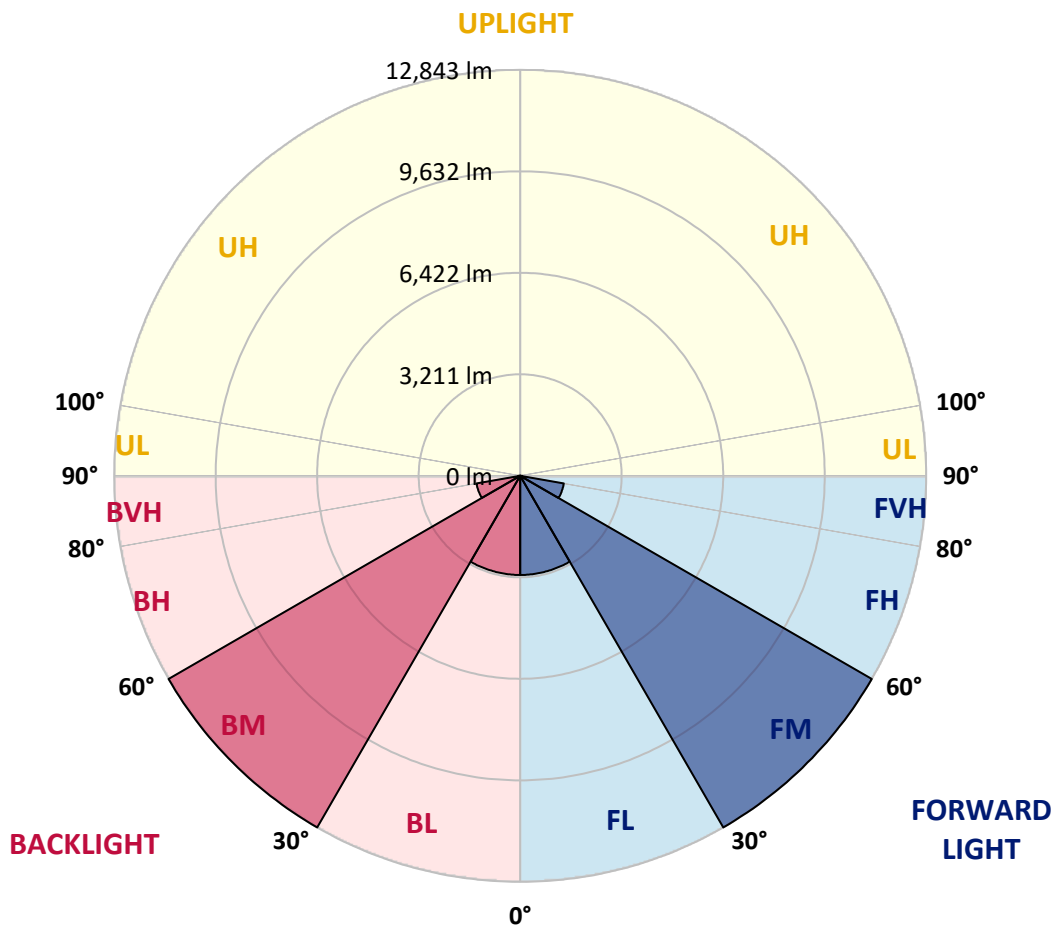


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3136.0	9.0			
FM (30°-60°)	12843.1	36.8			
FH (60°-80°)	1402.2	4.0			G1/1800
FVH (80°-90°)	66.2	0.2			G1/100
BL (0°-30°)	3136.0	9.0	B4/5000		
BM (30°-60°)	12843.1	36.8	B5		
BH (60°-80°)	1402.2	4.0	B3/2500		G1/1800
BVH (80°-90°)	66.2	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°	6371.3	6371.3	6371.3	6371.3	6371.3	6371.3	6371.3	6371.3	6371.3	6371.3	6371.3
2.5°	6447.2	6417.7	6367.1	6405.0	6434.6	6371.3	6396.6	6409.3	6400.8	6367.1	6379.7
5°	6540.0	6523.1	6480.9	6510.5	6472.5	6472.5	6447.2	6413.5	6464.1	6455.6	6476.7
7.5°	6540.0	6518.9	6603.2	6548.4	6565.3	6565.3	6523.1	6489.4	6514.7	6476.7	6455.6
10°	6670.7	6700.2	6662.3	6674.9	6666.5	6696.0	6632.7	6611.7	6590.6	6577.9	6552.6
12.5°	6826.7	6805.6	6818.3	6809.8	6839.4	6763.5	6725.5	6679.1	6717.1	6662.3	6700.2
15°	6953.2	6940.5	6953.2	6986.9	6957.4	6953.2	6885.7	6839.4	6780.3	6793.0	6733.9
17.5°	7126.1	7113.4	7117.6	7147.2	7142.9	7121.9	7071.3	6982.7	6961.6	6927.9	6890.0
20°	7383.3	7362.2	7353.8	7366.4	7387.5	7404.4	7303.2	7269.4	7197.8	7142.9	7079.7
22.5°	7602.6	7594.1	7627.9	7573.0	7619.4	7670.0	7573.0	7556.2	7379.1	7349.6	7282.1
25°	7906.2	7893.5	7872.4	7952.5	8007.4	8003.1	7910.4	7817.6	7682.7	7648.9	7648.9
27.5°	8226.6	8154.9	8264.6	8285.7	8382.6	8412.1	8332.0	8197.1	8070.6	7998.9	8015.8
30°	8627.2	8559.7	8585.0	8736.8	8863.3	8973.0	8770.6	8572.4	8395.3	8268.8	8247.7
32.5°	9027.8	8960.3	9036.2	9183.8	9436.8	9601.2	9403.1	9057.3	8850.7	8665.1	8703.1
35°	9352.5	9403.1	9525.3	9748.8	10010.2	10275.9	9959.6	9694.0	9398.8	9192.2	9221.7
37.5°	9875.3	10031.3	10128.3	10385.5	10756.6	11030.7	10701.8	10356.0	10039.8	9769.9	9677.1
40°	10558.4	10663.8	10773.5	11077.0	11515.6	11789.7	11477.6	11026.5	10714.4	10436.1	10423.5
42.5°	11309.0	11410.2	11524.0	11895.1	12156.5	12363.1	12076.4	11836.0	11490.3	11271.0	11258.4
45°	12181.8	12110.1	12236.6	12481.2	12700.4	12835.4	12649.8	12531.8	12283.0	12080.6	12059.5
47.5°	12763.7	12700.4	12928.1	13147.4	13181.1	13033.6	13071.5	13181.1	12919.7	12586.6	12692.0
50°	13101.0	13101.0	13252.8	13455.2	13392.0	13202.2	13501.6	13510.0	13248.6	12953.4	12953.4
52.5°	12514.9	12645.6	13075.7	13737.7	13948.6	14003.4	13935.9	13649.2	12966.1	12363.1	12333.6
55°	10904.2	10874.7	11456.5	12974.5	14201.6	14850.9	13990.7	12670.9	11283.7	10604.8	10537.3
57.5°	7092.3	7126.1	7994.7	9542.2	11755.9	12966.1	11515.6	9660.3	7994.7	7058.6	7147.2
60°	3192.0	3305.8	3832.9	4988.3	6890.0	7876.6	6906.8	5241.3	4022.7	3491.4	3537.7
62.5°	1834.2	1855.3	1876.4	2226.4	2934.8	3470.3	3048.6	2352.9	2074.6	1981.8	1981.8
65°	1547.5	1534.8	1539.1	1568.6	1644.5	1754.1	1707.7	1644.5	1652.9	1644.5	1631.8
67.5°	1315.6	1332.5	1319.8	1340.9	1345.1	1362.0	1391.5	1416.8	1421.0	1429.4	1421.0
70°	1079.5	1083.7	1092.1	1109.0	1113.2	1125.8	1168.0	1189.1	1201.7	1201.7	1218.6
72.5°	826.5	822.2	830.7	847.5	868.6	872.8	910.8	940.3	957.2	936.1	940.3
75°	543.9	548.2	560.8	573.5	603.0	632.5	645.1	674.7	678.9	687.3	666.2
77.5°	324.7	333.1	345.8	371.1	396.4	421.7	451.2	472.3	480.7	472.3	447.0
80°	210.8	210.8	227.7	248.8	278.3	299.4	316.2	333.1	345.8	333.1	324.7
82.5°	130.7	130.7	151.8	177.1	198.2	210.8	236.1	257.2	269.9	261.4	248.8
85°	67.5	71.7	88.5	109.6	126.5	134.9	130.7	118.1	105.4	101.2	92.8
87.5°	21.1	21.1	25.3	25.3	21.1	21.1	25.3	21.1	25.3	25.3	25.3
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)