

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: P530565

Luminaire Tested: **GALN-SA5D-740-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530565
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-1)
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-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20208 lumens
Efficiency: N/A
Efficacy: 65.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

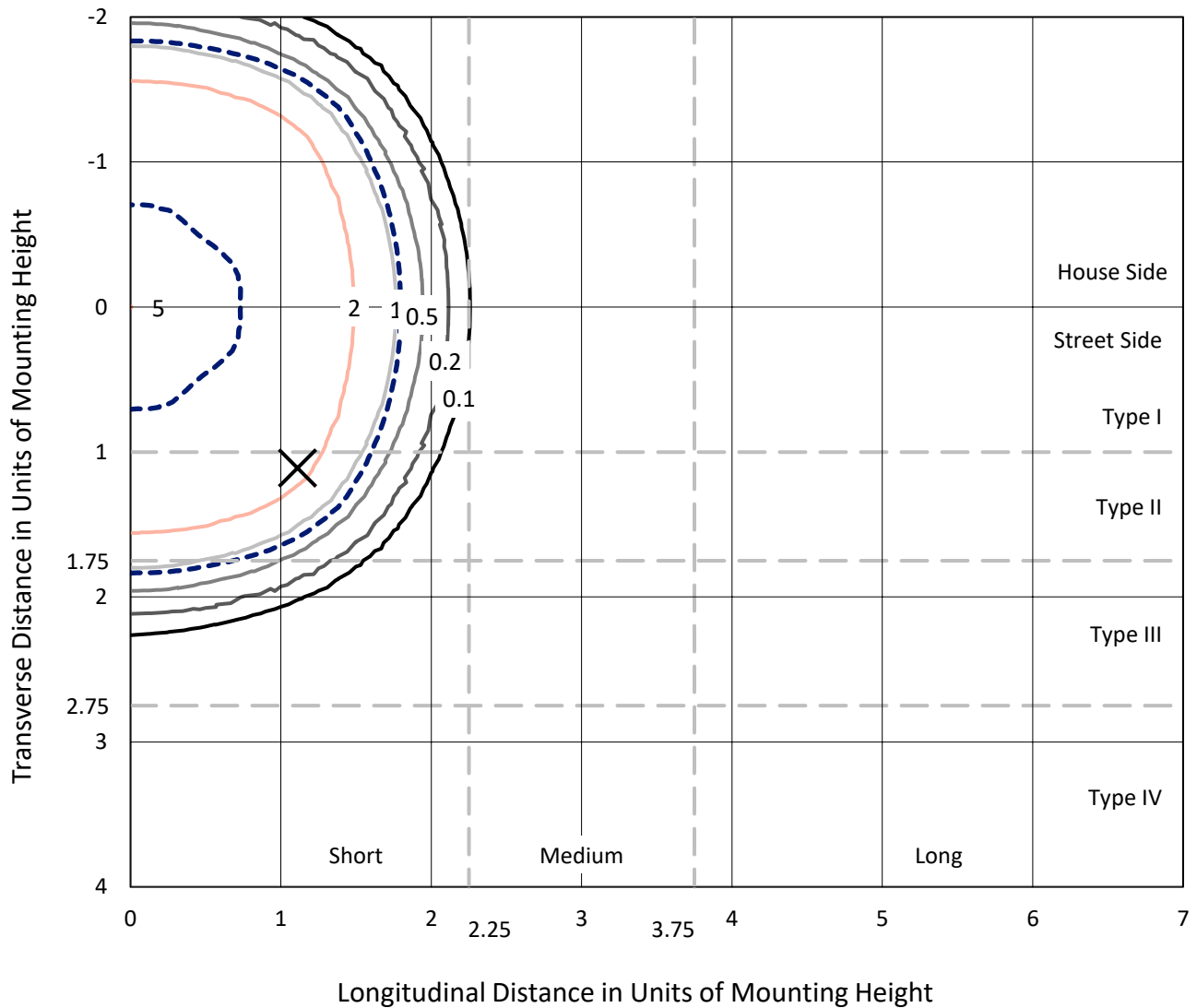
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

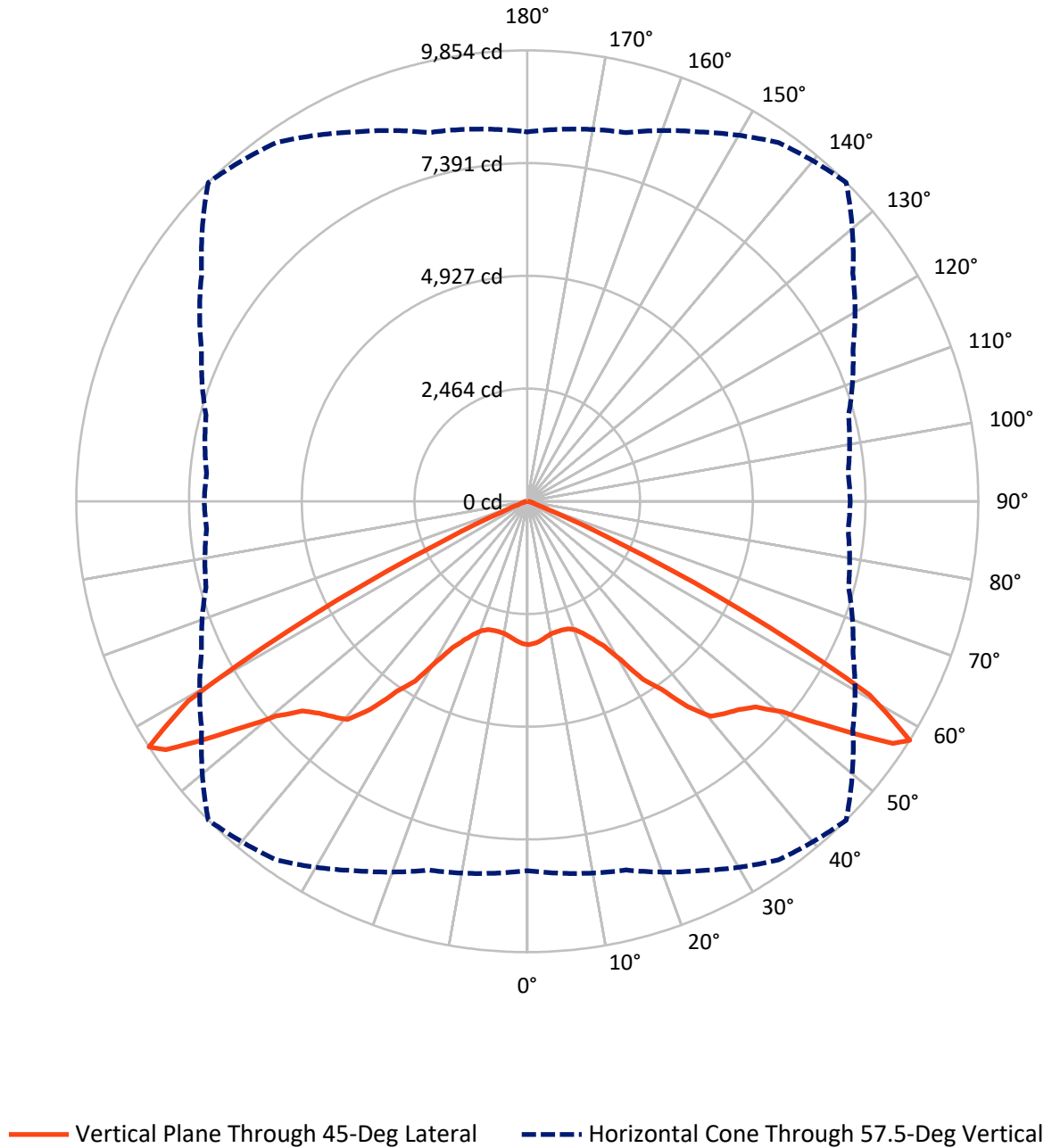
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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	10104.0	0.0	10104.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10104.0	0.0	10104.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	20208.0	0.0	20208.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	288.0	1.4
10°-20°	832.6	4.1
20°-30°	1536.8	7.6
30°-40°	3022.3	15.0
40°-50°	4922.6	24.4
50°-60°	7020.2	34.7
60°-70°	2430.6	12.0
70°-80°	130.4	0.6
80°-90°	24.5	0.1
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°	20208.0	100.0
0°-180°	20208.0	100.0

Coefficient of Utilization

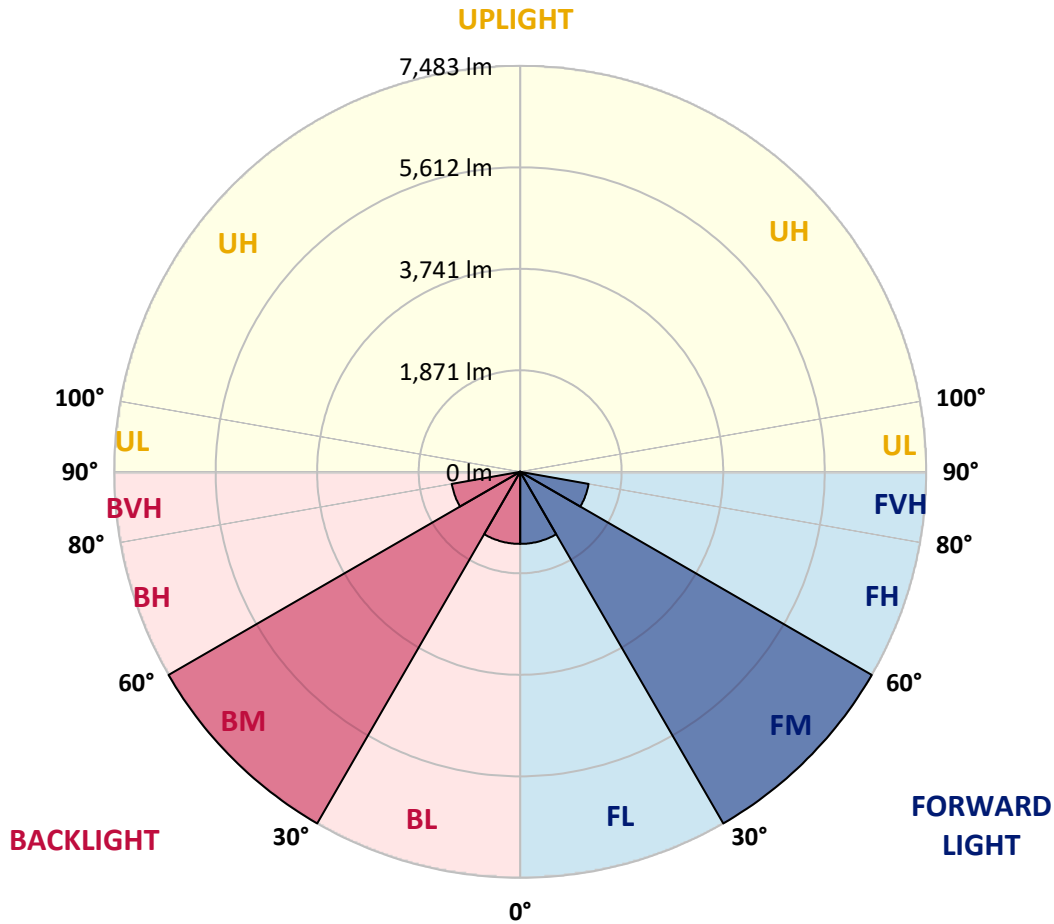


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1328.7	6.6			
FM (30°-60°)	7482.6	37.0			
FH (60°-80°)	1280.5	6.3			G1/1800
FVH (80°-90°)	12.2	0.1			G1/100
BL (0°-30°)	1328.7	6.6	B3/2500		
BM (30°-60°)	7482.6	37.0	B4/8500		
BH (60°-80°)	1280.5	6.3	B3/2500		G1/1800
BVH (80°-90°)	12.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3134.5	3134.5	3134.5	3134.5	3134.5	3134.5	3134.5	3134.5	3134.5	3134.5	3134.5
2.5°	3126.0	3142.9	3121.8	3113.4	3109.2	3109.2	3096.6	3096.6	3092.3	3096.6	3079.7
5°	3075.5	3092.3	3092.3	3088.1	3062.9	3058.6	3046.0	3037.6	3041.8	3024.9	3037.6
7.5°	3024.9	3037.6	3020.7	3016.5	3008.1	2991.2	2987.0	2949.1	2953.3	2953.3	2961.7
10°	3016.5	3012.3	2987.0	2966.0	2940.7	2936.5	2923.8	2915.4	2915.4	2911.2	2923.8
12.5°	3016.5	2995.4	2991.2	2944.9	2902.8	2919.6	2885.9	2864.8	2894.3	2902.8	2919.6
15°	3012.3	3033.4	2961.7	2940.7	2911.2	2915.4	2885.9	2864.8	2881.7	2890.1	2902.8
17.5°	3037.6	3024.9	3003.9	2961.7	2949.1	2932.2	2894.3	2877.5	2877.5	2898.5	2902.8
20°	3105.0	3071.3	3029.1	3008.1	3020.7	2999.7	2953.3	2890.1	2907.0	2923.8	2936.5
22.5°	3168.2	3142.9	3113.4	3100.8	3172.4	3138.7	3058.6	2987.0	2961.7	2991.2	3012.3
25°	3290.4	3290.4	3235.6	3252.4	3332.5	3336.7	3244.0	3117.6	3100.8	3113.4	3121.8
27.5°	3538.9	3551.6	3505.2	3522.1	3555.8	3585.3	3505.2	3399.9	3362.0	3357.8	3370.4
30°	3808.6	3833.8	3829.6	3901.2	3998.1	4015.0	3897.0	3724.3	3610.5	3589.5	3606.3
32.5°	4162.4	4175.1	4166.7	4250.9	4512.1	4634.3	4326.8	4082.4	3930.7	3968.6	3930.7
35°	4828.1	4815.5	4722.8	4739.6	4954.5	5043.0	4748.1	4592.2	4520.5	4596.4	4579.5
37.5°	5401.1	5354.7	5278.9	5388.4	5611.7	5691.8	5384.2	5110.4	4979.8	5106.2	5160.9
40°	5885.6	5767.6	5662.3	5771.8	6070.9	6180.5	5729.7	5506.4	5455.8	5548.5	5666.5
42.5°	6294.2	6218.4	6079.4	6087.8	6285.8	6336.4	5974.0	5843.4	5792.9	5940.3	5999.3
45°	6584.9	6513.3	6382.7	6374.3	6525.9	6492.2	6167.8	6079.4	6108.9	6205.7	6235.2
47.5°	6732.4	6770.3	6694.5	6715.5	6795.6	6715.5	6458.5	6458.5	6391.1	6450.1	6420.6
50°	7157.9	7039.9	7136.8	7136.8	7221.1	7229.5	6972.5	6879.8	6698.7	6597.6	6597.6
52.5°	7655.0	7663.4	7701.4	7840.4	7983.6	8105.8	7739.3	7343.3	7039.9	6909.3	6892.5
55°	8063.7	8147.9	8299.6	8560.8	8973.7	9142.2	8510.3	7802.5	7431.7	7229.5	7187.4
56°	8287.0	8206.9	8468.1	8826.2	9365.5	9584.6	8636.7	7895.2	7486.5	7259.0	7254.8
57.5°	8072.1	8160.6	8341.7	8906.3	9567.7	9854.2	8683.0	7853.0	7267.4	7035.7	7056.8
60°	6374.3	6458.5	6702.9	7334.8	8371.2	8594.5	7347.5	6475.4	5953.0	5620.1	5624.4
62.5°	3606.3	3669.5	3859.1	4444.7	5089.3	5304.2	4579.5	3998.1	3635.8	3450.4	3391.5
65°	1327.1	1301.8	1331.3	1630.4	2026.5	2207.6	1904.3	1609.4	1419.8	1352.4	1327.1
67.5°	497.1	459.2	429.7	459.2	577.2	610.9	560.3	467.6	438.2	450.8	459.2
70°	307.5	290.7	231.7	219.1	214.9	210.7	223.3	235.9	269.6	316.0	324.4
72.5°	214.9	202.2	164.3	155.9	147.5	143.2	164.3	181.2	210.7	244.4	248.6
75°	84.3	88.5	84.3	92.7	96.9	101.1	118.0	130.6	143.2	143.2	139.0
77.5°	16.9	16.9	25.3	33.7	42.1	54.8	80.0	92.7	96.9	92.7	80.0
80°	0.0	0.0	8.4	16.9	33.7	46.3	71.6	80.0	88.5	80.0	63.2
82.5°	0.0	0.0	8.4	21.1	33.7	42.1	67.4	84.3	96.9	88.5	67.4
85°	0.0	0.0	8.4	16.9	25.3	29.5	29.5	21.1	21.1	12.6	8.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)