

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P565137

Luminaire Tested: **SQ4-PW1-150U-075D-935-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P565137
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-150U-075D-935-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23115.0 lumens
Efficiency: N/A
Efficacy: 118.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Indirect

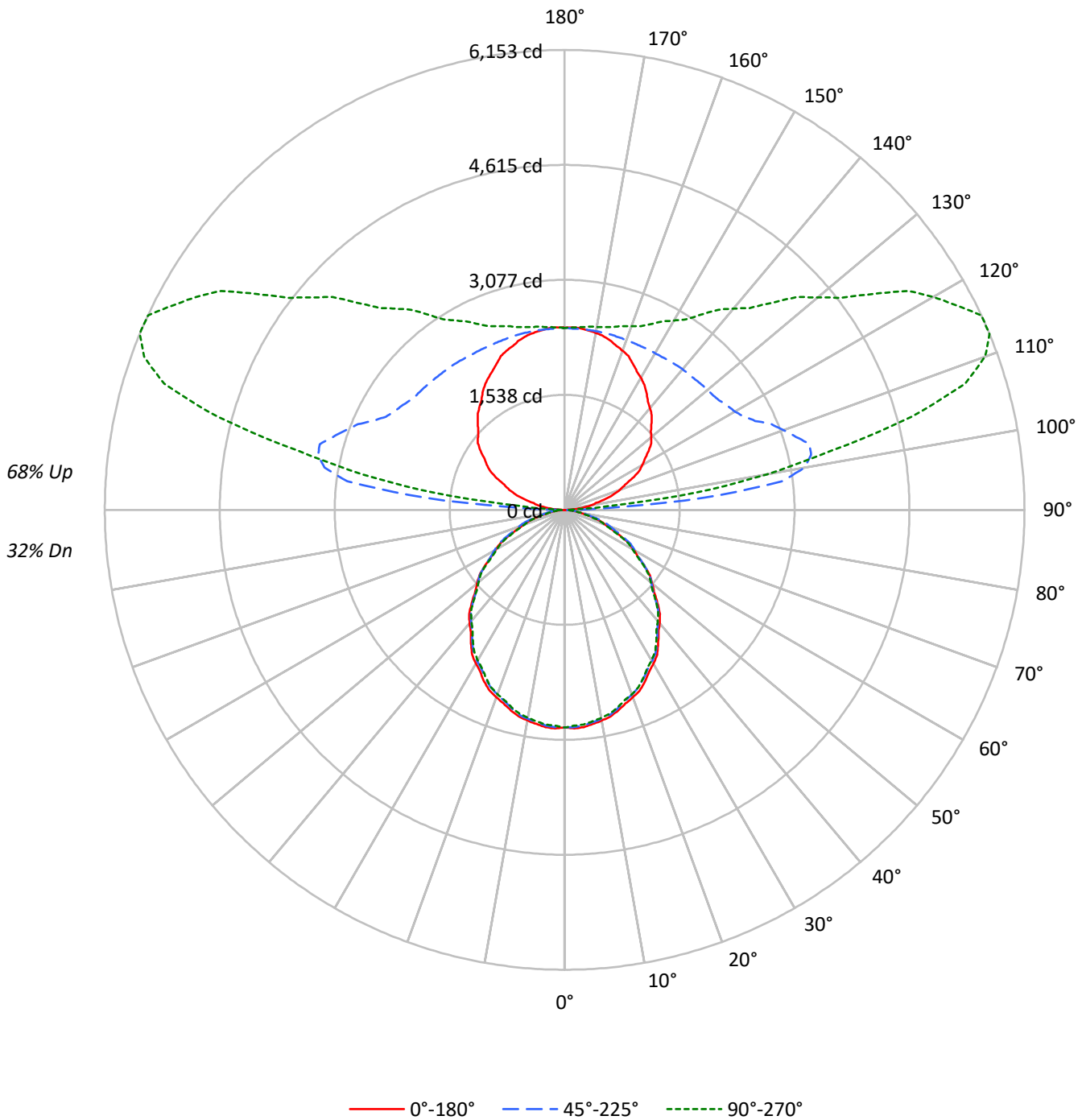
Input Watts (W): 194.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	103	103	103	103	93	93	93	93	73	73	73	56	56	56	40	40	40	32
1	94	90	86	83	84	81	78	75	64	62	60	49	48	46	35	34	34	27
2	85	78	72	67	77	71	66	61	56	53	50	43	41	39	31	30	28	23
3	78	69	62	56	70	62	56	51	50	45	42	38	35	33	27	26	24	19
4	71	61	53	47	64	55	48	43	44	39	36	34	31	28	25	22	21	17
5	65	54	46	40	59	49	42	37	39	34	31	30	27	24	22	20	18	14
6	60	48	41	35	54	44	37	32	35	30	27	27	24	21	20	18	16	13
7	55	44	36	30	50	40	33	28	32	27	23	25	21	19	18	16	14	11
8	51	39	32	27	46	36	29	25	29	24	21	23	19	17	17	14	13	10
9	48	36	29	24	43	33	26	22	27	22	18	21	17	15	15	13	11	9
10	44	33	26	21	40	30	24	20	24	20	16	19	16	13	14	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8954	8954	8954
5°	9012	8940	8901
10°	8940	8868	8820
15°	8845	8747	8714
20°	8739	8605	8588
25°	8617	8461	8434
30°	8435	8308	8253
35°	8195	8080	8032
40°	7940	7816	7785
45°	7631	7531	7497
50°	7315	7253	7204
55°	6973	6973	6863
60°	6548	6674	6437
65°	5992	6291	5843
70°	5282	5789	5143
75°	4511	5182	4389
80°	3498	4362	3544
85°	2262	3349	2985



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.2	1.2
10°-20°	774.0	3.3
20°-30°	1148.1	5.0
30°-40°	1343.4	5.8
40°-50°	1337.4	5.8
50°-60°	1154.9	5.0
60°-70°	831.3	3.6
70°-80°	435.9	1.9
80°-90°	113.2	0.5
90°-100°	1131.9	4.9
100°-110°	3060.3	13.2
110°-120°	3217.5	13.9
120°-130°	2613.5	11.3
130°-140°	2050.0	8.9
140°-150°	1573.4	6.8
150°-160°	1131.6	4.9
160°-170°	691.3	3.0
170°-180°	233.1	1.0
0°-30°	2196.3	9.5
0°-40°	3539.7	15.3
0°-60°	6032.1	26.1
0°-90°	7412.5	32.1
90°-120°	7409.7	32.1
90°-150°	13646.6	59.0
90°-180°	15703.0	67.9
0°-180°	23115.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2911	2911	2911	2911	2911	
5°	2919	2886	2896	2888	2883	276
15°	2778	2743	2747	2742	2737	783
25°	2540	2497	2493	2478	2486	1168
35°	2183	2153	2152	2132	2139	1365
45°	1755	1740	1732	1726	1724	1354
55°	1300	1298	1300	1282	1280	1160
65°	823	848	864	830	803	816
75°	380	415	436	407	369	407
85°	64	84	95	90	85	85
90°	5	16	34	37	34	14
95°	176	616	1882	974	579	184
105°	569	879	3395	5008	4803	599
115°	1002	1224	2816	5451	6153	989
125°	1371	1571	2538	4282	5031	1222
135°	1644	1839	2470	3458	3914	1270
145°	1911	2055	2436	2960	3185	1196
155°	2158	2242	2414	2655	2742	995
165°	2349	2372	2425	2520	2532	662
175°	2438	2436	2428	2459	2454	231
180°	2436	2436	2436	2436	2436	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2911.4	2911.4	2911.4	2911.4	2911.4
2.5°	2927.8	2903.8	2911.4	2905.0	2890.9
5°	2919.1	2886.5	2896.0	2888.2	2883.2
7.5°	2889.4	2859.3	2866.3	2858.0	2855.0
10°	2862.7	2832.6	2839.6	2829.2	2824.2
12.5°	2831.9	2799.8	2806.8	2796.4	2793.4
15°	2778.0	2742.9	2747.3	2742.0	2737.0
17.5°	2715.5	2679.8	2680.6	2672.3	2671.3
20°	2670.3	2632.7	2629.3	2619.1	2624.1
22.5°	2621.1	2581.4	2578.0	2563.8	2570.8
25°	2539.5	2496.8	2493.3	2478.1	2485.6
27.5°	2445.1	2403.0	2403.0	2381.7	2389.7
30°	2375.3	2335.2	2339.4	2314.0	2324.0
32.5°	2301.4	2265.3	2267.6	2242.2	2252.2
35°	2182.9	2152.8	2152.1	2131.8	2139.3
37.5°	2061.9	2035.3	2031.1	2019.3	2021.3
40°	1977.7	1955.1	1946.9	1939.2	1939.2
42.5°	1889.5	1868.9	1860.7	1855.1	1853.1
45°	1754.6	1739.5	1731.5	1726.3	1723.8
47.5°	1621.2	1607.1	1600.1	1596.5	1594.0
50°	1528.8	1518.8	1516.0	1508.2	1505.7
52.5°	1436.5	1430.5	1427.8	1417.9	1415.4
55°	1300.5	1298.0	1300.5	1282.5	1280.0
57.5°	1158.9	1162.9	1171.2	1147.0	1141.0
60°	1064.5	1074.6	1085.1	1056.6	1046.6
62.5°	968.1	984.1	998.9	966.2	952.2
65°	823.4	848.5	864.5	830.5	802.9
67.5°	683.9	715.0	734.1	697.5	666.4
70°	587.4	622.5	643.8	607.1	572.0
72.5°	503.3	542.4	559.7	525.1	489.9
75°	379.6	414.8	436.1	407.0	369.4
77.5°	269.3	302.4	320.1	294.8	263.7
80°	197.5	232.6	246.3	225.2	200.1
82.5°	140.1	169.2	178.5	165.8	148.8
85°	64.1	84.2	94.9	89.7	84.6
87.5°	17.5	33.6	45.8	46.4	47.9
90°	5.2	15.5	34.1	36.6	34.1
92.5°	74.5	271.3	535.3	232.4	168.3
95°	175.6	616.5	1882.3	974.1	579.4
97.5°	282.1	707.1	2934.1	2428.2	1783.2
100°	361.8	743.7	3261.3	3401.2	2750.1
102.5°	435.2	794.6	3376.7	4139.0	3651.9
105°	568.9	879.1	3395.0	5007.9	4802.8
107.5°	692.6	975.6	3246.6	5550.0	5618.1
110°	789.1	1045.4	3114.5	5695.5	5985.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	875.1	1115.0	2992.8	5666.4	6153.0
115°	1001.5	1224.5	2815.6	5450.6	6153.0
117.5°	1125.2	1334.4	2698.7	5120.8	5917.0
120°	1200.7	1405.8	2629.5	4884.2	5696.8
122.5°	1272.0	1473.0	2587.5	4630.6	5449.3
125°	1371.1	1571.1	2537.7	4282.4	5030.9
127.5°	1462.3	1658.7	2508.4	3998.3	4656.5
130°	1512.7	1715.2	2495.8	3822.7	4417.4
132.5°	1565.1	1765.6	2483.2	3664.4	4211.9
135°	1643.8	1838.6	2469.6	3457.8	3914.1
137.5°	1722.9	1907.0	2458.0	3290.2	3661.9
140°	1777.5	1949.2	2453.8	3182.3	3513.0
142.5°	1829.9	1991.4	2445.5	3084.9	3374.6
145°	1911.2	2054.7	2435.5	2959.7	3185.3
147.5°	1985.1	2112.2	2424.0	2846.3	3019.6
150°	2039.6	2152.4	2419.8	2784.7	2923.1
152.5°	2090.0	2188.4	2417.7	2727.5	2841.3
155°	2157.6	2242.2	2414.5	2655.1	2742.2
157.5°	2227.9	2286.8	2415.0	2604.6	2662.0
160°	2267.7	2316.4	2417.1	2572.7	2613.8
162.5°	2299.2	2339.7	2419.2	2547.3	2578.1
165°	2349.0	2372.0	2425.0	2519.7	2532.5
167.5°	2383.1	2399.0	2425.5	2495.9	2502.1
170°	2404.0	2411.7	2427.6	2485.3	2485.3
172.5°	2420.8	2422.3	2427.6	2472.7	2470.6
175°	2438.1	2435.5	2427.6	2459.0	2453.8
177.5°	2443.9	2437.7	2427.1	2447.9	2441.8
180°	2435.5	2435.5	2435.5	2435.5	2435.5

(END OF REPORT)