

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: P565133

Luminaire Tested: **SQ4-PW1-150U-075D-930-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P565133
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-930-1D-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: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21169.4 lumens
Efficiency: N/A
Efficacy: 108.6 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

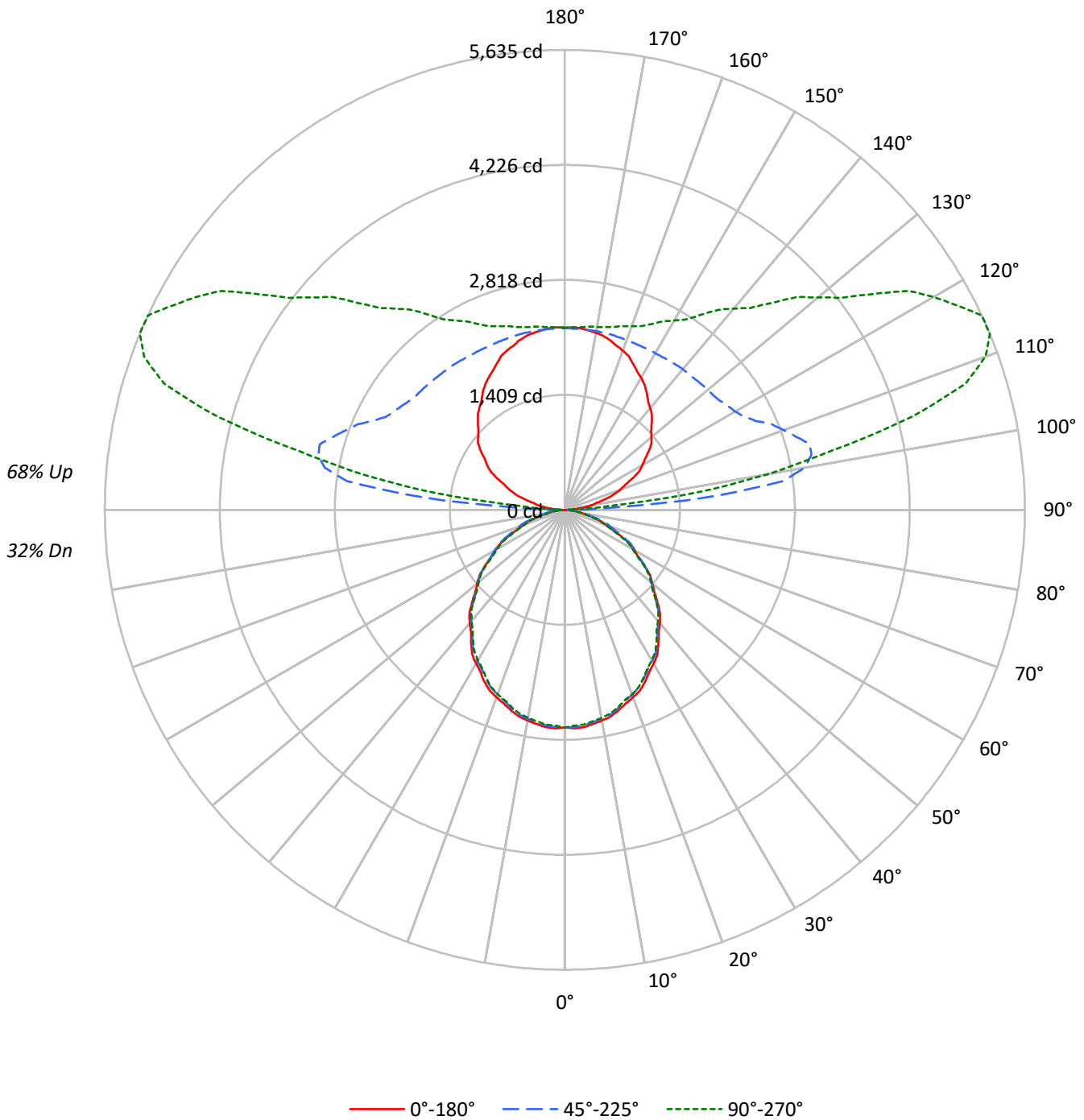
Input Watts (W): 194.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P565133

CATALOG NUMBER: SQ4-PW1-150U-075D-930-1D-UNV-STD-W-12

Luminous Intensity Polar Plot





TEST NUMBER: P565133

CATALOG NUMBER: SQ4-PW1-150U-075D-930-1D-UNV-STD-W-12

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°	8200	8200	8200
5°	8253	8188	8152
10°	8187	8121	8077
15°	8100	8011	7981
20°	8004	7881	7865
25°	7892	7748	7725
30°	7725	7608	7558
35°	7506	7400	7356
40°	7271	7159	7130
45°	6989	6897	6866
50°	6699	6643	6598
55°	6386	6386	6286
60°	5996	6112	5896
65°	5488	5761	5351
70°	4838	5303	4711
75°	4132	4746	4020
80°	3204	3994	3245
85°	2071	3066	2735



TEST NUMBER: P565133

CATALOG NUMBER: SQ4-PW1-150U-075D-930-1D-UNV-STD-W-12

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.1	1.2
10°-20°	708.9	3.3
20°-30°	1051.5	5.0
30°-40°	1230.3	5.8
40°-50°	1224.8	5.8
50°-60°	1057.7	5.0
60°-70°	761.4	3.6
70°-80°	399.3	1.9
80°-90°	103.6	0.5
90°-100°	1036.6	4.9
100°-110°	2802.7	13.2
110°-120°	2946.7	13.9
120°-130°	2393.5	11.3
130°-140°	1877.5	8.9
140°-150°	1441.0	6.8
150°-160°	1036.3	4.9
160°-170°	633.1	3.0
170°-180°	213.4	1.0
0°-30°	2011.4	9.5
0°-40°	3241.8	15.3
0°-60°	5524.3	26.1
0°-90°	6788.6	32.1
90°-120°	6786.0	32.1
90°-150°	12497.9	59.0
90°-180°	14381.0	67.9
0°-180°	21169.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2666	2666	2666	2666	2666	
5°	2673	2644	2652	2645	2640	253
15°	2544	2512	2516	2511	2507	717
25°	2326	2287	2283	2270	2276	1069
35°	1999	1972	1971	1952	1959	1250
45°	1607	1593	1586	1581	1579	1240
55°	1191	1189	1191	1175	1172	1063
65°	754	777	792	761	735	747
75°	348	380	399	373	338	373
85°	59	77	87	82	78	78
90°	5	14	31	34	31	13
95°	161	565	1724	892	531	168
105°	521	805	3109	4586	4398	549
115°	917	1121	2579	4992	5635	906
125°	1256	1439	2324	3922	4607	1119
135°	1505	1684	2262	3167	3585	1163
145°	1750	1882	2230	2711	2917	1095
155°	1976	2054	2211	2432	2511	911
165°	2151	2172	2221	2308	2319	606
175°	2233	2230	2223	2252	2247	212
180°	2230	2230	2230	2230	2230	

TEST NUMBER: P565133

CATALOG NUMBER: SQ4-PW1-150U-075D-930-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2666.4	2666.4	2666.4	2666.4	2666.4
2.5°	2681.4	2659.3	2666.4	2660.4	2647.6
5°	2673.4	2643.5	2652.3	2645.1	2640.5
7.5°	2646.2	2618.6	2625.0	2617.4	2614.7
10°	2621.7	2594.2	2600.6	2591.1	2586.5
12.5°	2593.5	2564.1	2570.5	2561.1	2558.3
15°	2544.2	2512.0	2516.0	2511.2	2506.6
17.5°	2486.9	2454.3	2454.9	2447.4	2446.5
20°	2445.5	2411.1	2407.9	2398.7	2403.3
22.5°	2400.4	2364.1	2361.0	2348.0	2354.4
25°	2325.7	2286.7	2283.4	2269.5	2276.4
27.5°	2239.3	2200.7	2200.7	2181.2	2188.5
30°	2175.4	2138.6	2142.5	2119.2	2128.4
32.5°	2107.7	2074.6	2076.7	2053.4	2062.6
35°	1999.2	1971.6	1971.0	1952.4	1959.2
37.5°	1888.3	1864.0	1860.1	1849.3	1851.2
40°	1811.2	1790.6	1783.1	1776.0	1776.0
42.5°	1730.4	1711.6	1704.1	1698.9	1697.1
45°	1606.9	1593.1	1585.7	1581.0	1578.7
47.5°	1484.7	1471.8	1465.4	1462.1	1459.8
50°	1400.1	1390.9	1388.4	1381.3	1379.0
52.5°	1315.6	1310.0	1307.6	1298.6	1296.3
55°	1191.1	1188.8	1191.1	1174.6	1172.3
57.5°	1061.4	1065.1	1072.7	1050.4	1044.9
60°	974.9	984.1	993.7	967.7	958.5
62.5°	886.6	901.3	914.8	884.9	872.0
65°	754.1	777.1	791.7	760.6	735.3
67.5°	626.3	654.8	672.3	638.8	610.3
70°	538.0	570.1	589.7	556.0	523.9
72.5°	460.9	496.8	512.6	480.9	448.7
75°	347.7	379.8	399.4	372.7	338.3
77.5°	246.7	277.0	293.2	270.0	241.5
80°	180.9	213.0	225.5	206.2	183.2
82.5°	128.3	154.9	163.5	151.9	136.3
85°	58.7	77.1	86.9	82.1	77.5
87.5°	16.0	30.7	42.0	42.5	43.8
90°	4.8	14.2	31.2	33.6	31.2
92.5°	68.2	248.5	490.3	212.8	154.1
95°	160.9	564.7	1723.9	892.1	530.6
97.5°	258.3	647.6	2687.1	2223.8	1633.1
100°	331.3	681.1	2986.8	3114.9	2518.6
102.5°	398.6	727.7	3092.4	3790.6	3344.5
105°	521.0	805.1	3109.2	4586.4	4398.5
107.5°	634.3	893.5	2973.3	5082.8	5145.2
110°	722.7	957.4	2852.3	5216.1	5481.4



TEST NUMBER: P565133

CATALOG NUMBER: SQ4-PW1-150U-075D-930-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	801.4	1021.2	2740.9	5189.5	5635.0
115°	917.2	1121.4	2578.6	4991.8	5635.0
117.5°	1030.5	1222.1	2471.5	4689.8	5419.0
120°	1099.6	1287.4	2408.2	4473.1	5217.3
122.5°	1164.9	1349.0	2369.7	4240.8	4990.6
125°	1255.7	1438.8	2324.1	3921.9	4607.4
127.5°	1339.3	1519.1	2297.2	3661.7	4264.6
130°	1385.4	1570.8	2285.7	3501.0	4045.6
132.5°	1433.4	1617.0	2274.2	3355.9	3857.4
135°	1505.4	1683.8	2261.7	3166.8	3584.6
137.5°	1577.9	1746.5	2251.1	3013.2	3353.7
140°	1627.8	1785.1	2247.3	2914.4	3217.3
142.5°	1675.9	1823.8	2239.6	2825.2	3090.5
145°	1750.3	1881.8	2230.5	2710.6	2917.2
147.5°	1818.0	1934.4	2219.9	2606.7	2765.4
150°	1867.9	1971.2	2216.1	2550.3	2677.1
152.5°	1914.0	2004.2	2214.2	2497.9	2602.2
155°	1976.0	2053.5	2211.3	2431.6	2511.4
157.5°	2040.3	2094.3	2211.8	2385.3	2437.9
160°	2076.8	2121.4	2213.7	2356.2	2393.8
162.5°	2105.6	2142.7	2215.6	2332.9	2361.1
165°	2151.3	2172.4	2220.9	2307.6	2319.3
167.5°	2182.5	2197.0	2221.4	2285.8	2291.5
170°	2201.7	2208.7	2223.3	2276.1	2276.1
172.5°	2217.0	2218.4	2223.3	2264.5	2262.7
175°	2232.9	2230.5	2223.3	2252.0	2247.3
177.5°	2238.2	2232.5	2222.8	2241.9	2236.2
180°	2230.5	2230.5	2230.5	2230.5	2230.5

(END OF REPORT)