

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: P565184

Luminaire Tested: **SQ4-PW1-150U-125D-930-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P565184  
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-125D-930-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

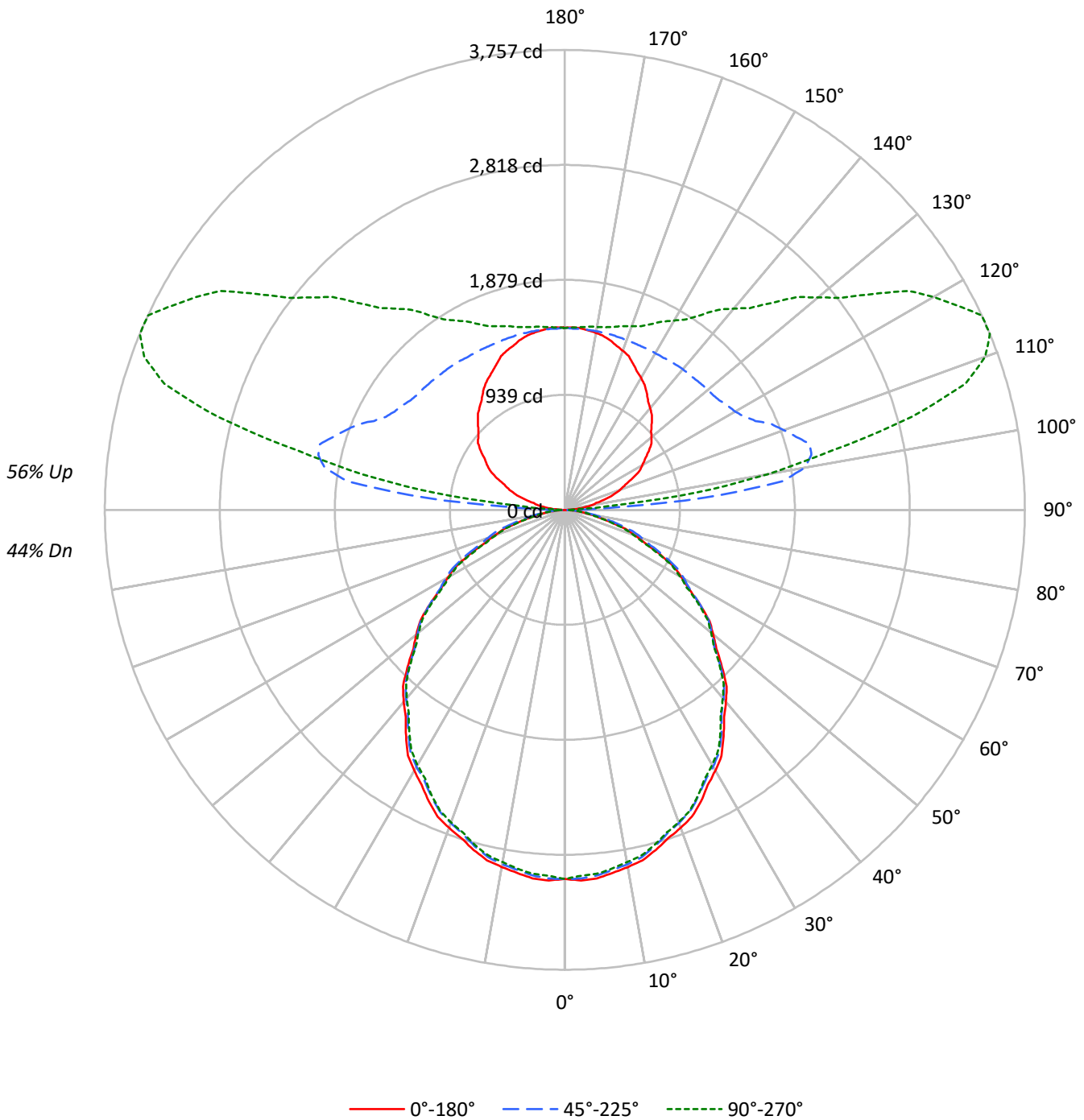
Lumens per Lamp: N/A  
Luminaire Lumens: 17258.8 lumens  
Efficiency: N/A  
Efficacy: 102.9 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 167.8  
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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	44
1	97	92	89	85	88	85	82	79	70	68	66	57	56	54	45	44	43	38
2	88	81	75	70	80	74	69	65	62	58	55	50	48	45	40	38	37	32
3	80	71	64	58	73	65	59	54	55	50	46	45	41	38	35	33	31	27
4	73	63	55	49	67	58	51	46	48	43	39	40	36	33	32	29	27	23
5	67	56	48	42	62	52	45	39	43	38	34	36	32	29	29	26	23	20
6	62	50	42	36	57	46	39	34	39	34	30	32	28	25	26	23	21	18
7	57	45	37	32	52	42	35	30	35	30	26	29	25	22	24	21	18	16
8	53	41	33	28	49	38	31	26	32	27	23	27	23	20	22	19	16	14
9	50	37	30	25	45	35	28	24	30	24	21	25	21	18	20	17	15	13
10	46	34	27	22	42	32	25	21	27	22	19	23	19	16	19	16	13	11

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	13904	13904	13904
5°	13994	13883	13822
10°	13882	13770	13696
15°	13735	13583	13532
20°	13571	13362	13336
25°	13382	13138	13098
30°	13098	12901	12816
35°	12727	12547	12472
40°	12329	12138	12090
45°	11850	11694	11642
50°	11359	11263	11187
55°	10829	10829	10657
60°	10168	10364	9997
65°	9304	9768	9073
70°	8202	8990	7987
75°	7005	8046	6816
80°	5433	6772	5502
85°	3515	5203	4637



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	283.8	1.6
10°-20°	801.3	4.6
20°-30°	1188.6	6.9
30°-40°	1390.8	8.1
40°-50°	1384.6	8.0
50°-60°	1195.6	6.9
60°-70°	860.6	5.0
70°-80°	451.3	2.6
80°-90°	115.0	0.7
90°-100°	691.1	4.0
100°-110°	1868.5	10.8
110°-120°	1964.4	11.4
120°-130°	1595.6	9.2
130°-140°	1251.7	7.3
140°-150°	960.7	5.6
150°-160°	690.9	4.0
160°-170°	422.1	2.4
170°-180°	142.3	0.8
0°-30°	2273.7	13.2
0°-40°	3664.5	21.2
0°-60°	6244.7	36.2
0°-90°	7671.6	44.5
90°-120°	4524.0	26.2
90°-150°	8331.9	48.3
90°-180°	9587.0	55.5
0°-180°	17258.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3014	3014	3014	3014	3014	
5°	3022	2988	2998	2990	2985	286
15°	2876	2840	2844	2839	2834	811
25°	2629	2585	2581	2565	2573	1209
35°	2260	2229	2228	2207	2215	1413
45°	1816	1801	1792	1787	1784	1401
55°	1346	1344	1346	1328	1325	1201
65°	852	878	895	860	831	845
75°	393	429	451	421	382	421
85°	66	87	98	93	88	88
90°	3	10	21	22	21	10
95°	107	376	1149	595	354	112
105°	347	537	2073	3058	2932	366
115°	611	748	1719	3328	3757	604
125°	837	959	1549	2615	3072	746
135°	1004	1122	1508	2111	2390	776
145°	1167	1254	1487	1807	1945	730
155°	1317	1369	1474	1621	1674	608
165°	1434	1448	1481	1538	1546	404
175°	1489	1487	1482	1501	1498	141
180°	1487	1487	1487	1487	1487	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3014.1	3014.1	3014.1	3014.1	3014.1
2.5°	3031.1	3006.1	3014.1	3007.4	2992.8
5°	3022.0	2988.3	2998.1	2990.0	2984.9
7.5°	2991.2	2960.1	2967.3	2958.8	2955.6
10°	2963.6	2932.4	2939.7	2929.0	2923.8
12.5°	2931.7	2898.5	2905.7	2895.0	2891.9
15°	2876.0	2839.6	2844.1	2838.7	2833.5
17.5°	2811.2	2774.3	2775.1	2766.5	2765.5
20°	2764.4	2725.5	2721.9	2711.4	2716.6
22.5°	2713.5	2672.4	2668.8	2654.1	2661.4
25°	2629.0	2584.9	2581.2	2565.4	2573.2
27.5°	2531.3	2487.7	2487.7	2465.6	2473.9
30°	2459.0	2417.5	2421.9	2395.6	2405.9
32.5°	2382.6	2345.2	2347.5	2321.2	2331.6
35°	2259.9	2228.7	2228.0	2206.9	2214.7
37.5°	2134.5	2107.0	2102.7	2090.5	2092.6
40°	2047.4	2024.1	2015.6	2007.6	2007.6
42.5°	1956.1	1934.8	1926.3	1920.5	1918.4
45°	1816.4	1800.8	1792.5	1787.1	1784.5
47.5°	1678.3	1663.8	1656.5	1652.8	1650.2
50°	1582.7	1572.3	1569.4	1561.4	1558.8
52.5°	1487.1	1480.9	1478.1	1467.9	1465.3
55°	1346.4	1343.8	1346.4	1327.7	1325.1
57.5°	1199.8	1203.9	1212.5	1187.4	1181.2
60°	1102.1	1112.4	1123.3	1093.9	1083.5
62.5°	1002.2	1018.8	1034.1	1000.3	985.7
65°	852.4	878.4	894.9	859.8	831.2
67.5°	708.0	740.2	760.0	722.1	689.9
70°	608.1	644.5	666.5	628.5	592.2
72.5°	521.0	561.5	579.4	543.6	507.2
75°	393.0	429.4	451.4	421.3	382.4
77.5°	278.8	313.1	331.4	305.2	273.0
80°	204.5	240.8	254.9	233.1	207.1
82.5°	145.0	175.1	184.8	171.7	154.0
85°	66.4	87.2	98.3	92.8	87.6
87.5°	17.6	33.4	44.5	44.9	46.7
90°	3.2	9.5	20.8	22.4	20.8
92.5°	45.5	165.7	326.8	141.9	102.8
95°	107.2	376.4	1149.3	594.8	353.7
97.5°	172.2	431.7	1791.4	1482.5	1088.8
100°	220.9	454.1	1991.2	2076.6	1679.1
102.5°	265.7	485.1	2061.6	2527.0	2229.7
105°	347.3	536.7	2072.8	3057.6	2932.4
107.5°	422.9	595.7	1982.2	3388.5	3430.2
110°	481.8	638.3	1901.6	3477.4	3654.3

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	534.3	680.8	1827.3	3459.6	3756.7
115°	611.4	747.6	1719.1	3327.9	3756.7
117.5°	687.0	814.7	1647.7	3126.5	3612.6
120°	733.1	858.3	1605.4	2982.1	3478.2
122.5°	776.6	899.3	1579.8	2827.2	3327.1
125°	837.1	959.2	1549.4	2614.6	3071.6
127.5°	892.8	1012.7	1531.5	2441.1	2843.0
130°	923.6	1047.2	1523.8	2334.0	2697.1
132.5°	955.6	1078.0	1516.1	2237.3	2571.6
135°	1003.6	1122.5	1507.8	2111.2	2389.7
137.5°	1051.9	1164.3	1500.8	2008.8	2235.8
140°	1085.2	1190.1	1498.2	1943.0	2144.9
142.5°	1117.2	1215.8	1493.1	1883.5	2060.3
145°	1166.9	1254.5	1487.0	1807.0	1944.8
147.5°	1212.0	1289.6	1479.9	1737.8	1843.6
150°	1245.3	1314.2	1477.4	1700.2	1784.7
152.5°	1276.0	1336.1	1476.1	1665.3	1734.8
155°	1317.3	1369.0	1474.2	1621.1	1674.3
157.5°	1360.2	1396.2	1474.5	1590.2	1625.3
160°	1384.5	1414.3	1475.8	1570.8	1595.8
162.5°	1403.8	1428.5	1477.1	1555.3	1574.1
165°	1434.2	1448.3	1480.6	1538.4	1546.2
167.5°	1455.0	1464.7	1480.9	1523.9	1527.6
170°	1467.8	1472.5	1482.2	1517.4	1517.4
172.5°	1478.0	1479.0	1482.2	1509.7	1508.4
175°	1488.6	1487.0	1482.2	1501.3	1498.2
177.5°	1492.1	1488.4	1481.9	1494.6	1490.8
180°	1487.0	1487.0	1487.0	1487.0	1487.0

(END OF REPORT)