

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: P565088

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

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P565088  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, 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-PW1-125U-125D-930-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

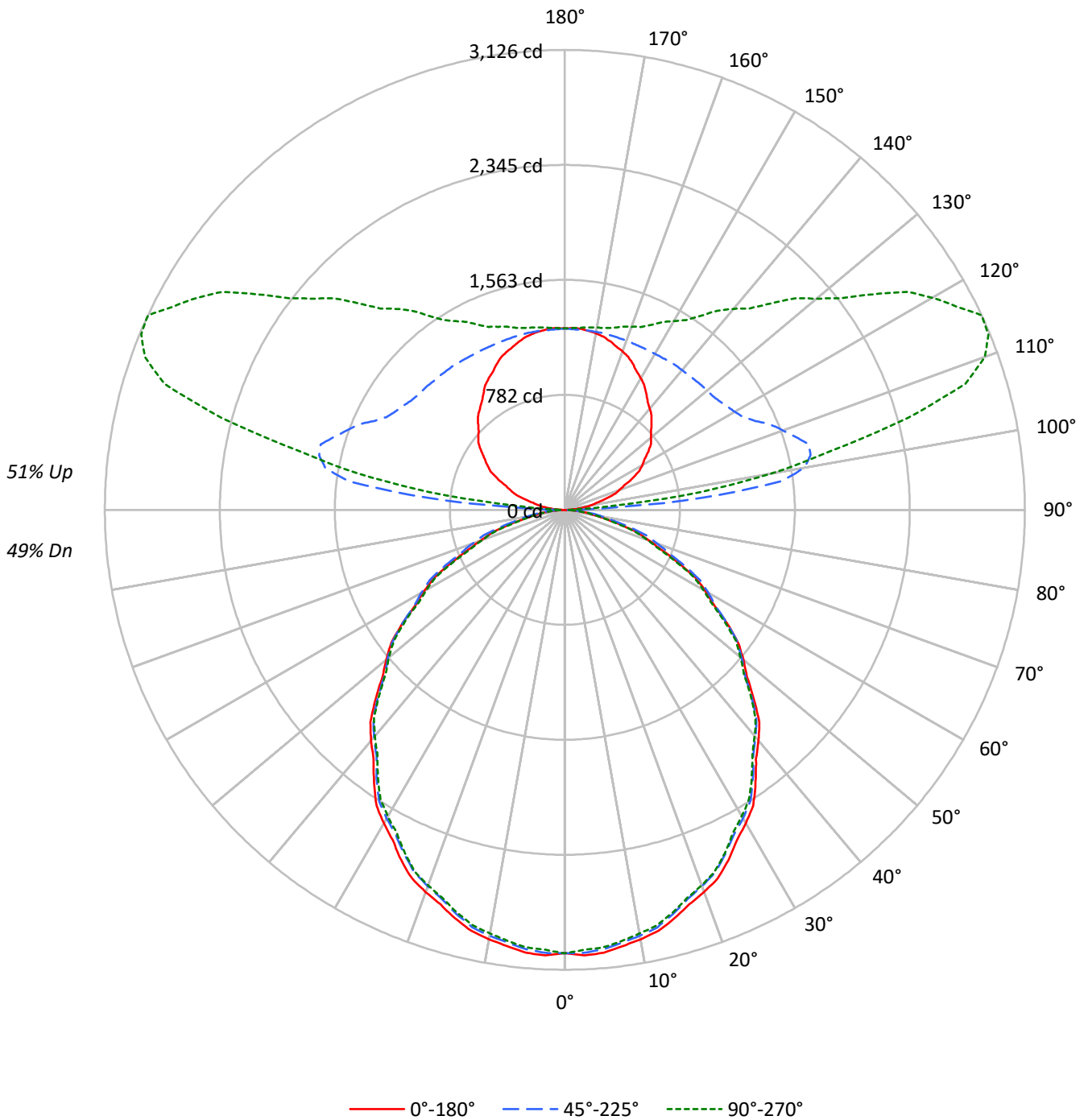
Lumens per Lamp: N/A  
Luminaire Lumens: 15627.9 lumens  
Efficiency: N/A  
Efficacy: 102.3 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 152.7  
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	107	107	107	107	99	99	99	99	83	83	83	68	68	68	55	55	55	49
1	98	93	90	86	90	86	83	80	73	70	68	60	59	57	49	48	47	42
2	89	82	76	70	82	75	70	66	64	60	57	53	50	48	43	41	40	35
3	81	72	65	59	75	66	60	55	56	52	48	47	44	41	38	36	34	30
4	74	64	56	50	68	59	52	47	50	45	41	42	38	35	34	31	29	25
5	68	57	49	43	63	53	45	40	45	39	35	38	33	30	31	28	25	22
6	63	51	43	37	58	47	40	35	40	35	31	34	30	26	28	25	22	19
7	58	46	38	32	53	43	36	31	37	31	27	31	27	23	26	22	20	17
8	54	42	34	29	50	39	32	27	33	28	24	28	24	21	24	20	18	15
9	50	38	31	25	46	35	29	24	31	25	21	26	22	19	22	18	16	14
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15	13

**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	1.8
10°-20°	801.3	5.1
20°-30°	1188.6	7.6
30°-40°	1390.8	8.9
40°-50°	1384.6	8.9
50°-60°	1195.6	7.7
60°-70°	860.6	5.5
70°-80°	451.3	2.9
80°-90°	114.8	0.7
90°-100°	576.6	3.7
100°-110°	1553.1	9.9
110°-120°	1629.9	10.4
120°-130°	1322.7	8.5
130°-140°	1037.3	6.6
140°-150°	796.4	5.1
150°-160°	572.6	3.7
160°-170°	349.8	2.2
170°-180°	118.0	0.8
0°-30°	2273.7	14.5
0°-40°	3664.5	23.4
0°-60°	6244.7	40.0
0°-90°	7671.4	49.1
90°-120°	3759.6	24.1
90°-150°	6916.0	44.3
90°-180°	7956.0	50.9
0°-180°	15627.9	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	9	19	20	20	9
95°	88	314	945	483	334	92
105°	287	447	1718	2570	2412	302
115°	507	621	1430	2764	3126	499
125°	692	795	1284	2171	2554	618
135°	834	930	1248	1751	1983	643
145°	964	1039	1232	1497	1608	605
155°	1094	1134	1222	1343	1386	504
165°	1187	1201	1226	1275	1281	335
175°	1234	1232	1228	1245	1242	117
180°	1232	1232	1232	1232	1232	



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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	44.1	44.5	46.6
90°	3.1	9.3	18.8	20.4	20.4
92.5°	38.3	135.3	267.5	128.8	89.5
95°	87.9	313.6	945.2	483.3	334.4
97.5°	140.4	359.0	1482.4	1238.4	933.9
100°	180.6	377.1	1653.3	1729.8	1435.0
102.5°	219.5	402.5	1709.8	2097.7	1855.8
105°	287.3	447.0	1717.6	2569.7	2411.6
107.5°	351.4	493.8	1644.5	2812.3	2853.1
110°	394.1	529.2	1577.9	2887.6	3036.5

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	439.3	564.6	1513.8	2870.9	<i>3115.6</i>
115°	<i>507.1</i>	<i>620.7</i>	<i>1430.3</i>	<i>2763.7</i>	<i>3126.0</i>
117.5°	569.0	675.5	1365.6	2592.5	<i>2996.0</i>
120°	609.2	712.0	1333.0	2469.7	<i>2884.2</i>
122.5°	644.4	746.0	1309.1	2344.1	<i>2757.3</i>
125°	692.4	795.3	1284.3	2170.7	<i>2554.5</i>
127.5°	738.6	839.9	1268.6	2017.8	<i>2360.4</i>
130°	766.2	867.5	1262.3	1930.2	<i>2231.1</i>
132.5°	793.8	893.9	1256.0	1853.0	<i>2129.3</i>
135°	833.7	930.4	1248.2	1751.2	<i>1983.0</i>
137.5°	871.7	964.4	1244.1	1664.8	<i>1855.2</i>
140°	898.1	987.1	1240.3	1611.6	<i>1783.6</i>
142.5°	925.7	1008.6	1237.8	1562.0	<i>1707.0</i>
145°	964.0	1039.2	1232.5	1497.2	<i>1607.7</i>
147.5°	1005.5	1070.9	1227.2	1442.7	<i>1529.5</i>
150°	1033.1	1089.9	1224.6	1408.4	<i>1480.6</i>
152.5°	1058.2	1107.7	1223.4	1380.5	<i>1439.1</i>
155°	1094.3	1134.2	1221.5	1343.4	<i>1386.4</i>
157.5°	1126.0	1157.1	1221.8	1317.3	<i>1346.2</i>
160°	1146.1	1172.2	1223.1	1302.1	<i>1323.6</i>
162.5°	1163.7	1184.9	1224.3	1289.4	<i>1304.7</i>
165°	1187.0	1200.8	1226.2	1275.0	<i>1281.2</i>
167.5°	1205.8	1213.8	1227.8	1264.0	<i>1266.4</i>
170°	1218.4	1221.4	1227.8	1257.6	<i>1257.6</i>
172.5°	1225.9	1226.5	1229.0	1251.3	<i>1251.3</i>
175°	1234.1	1232.5	1227.8	1245.0	<i>1241.9</i>
177.5°	1237.5	1235.1	1228.7	1238.7	<i>1236.3</i>
180°	1232.5	1232.5	1232.5	1232.5	<i>1232.5</i>

(END OF REPORT)