

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: P565186

Luminaire Tested: **SQ4-PW1-150U-125D-935-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P565186  
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-935-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

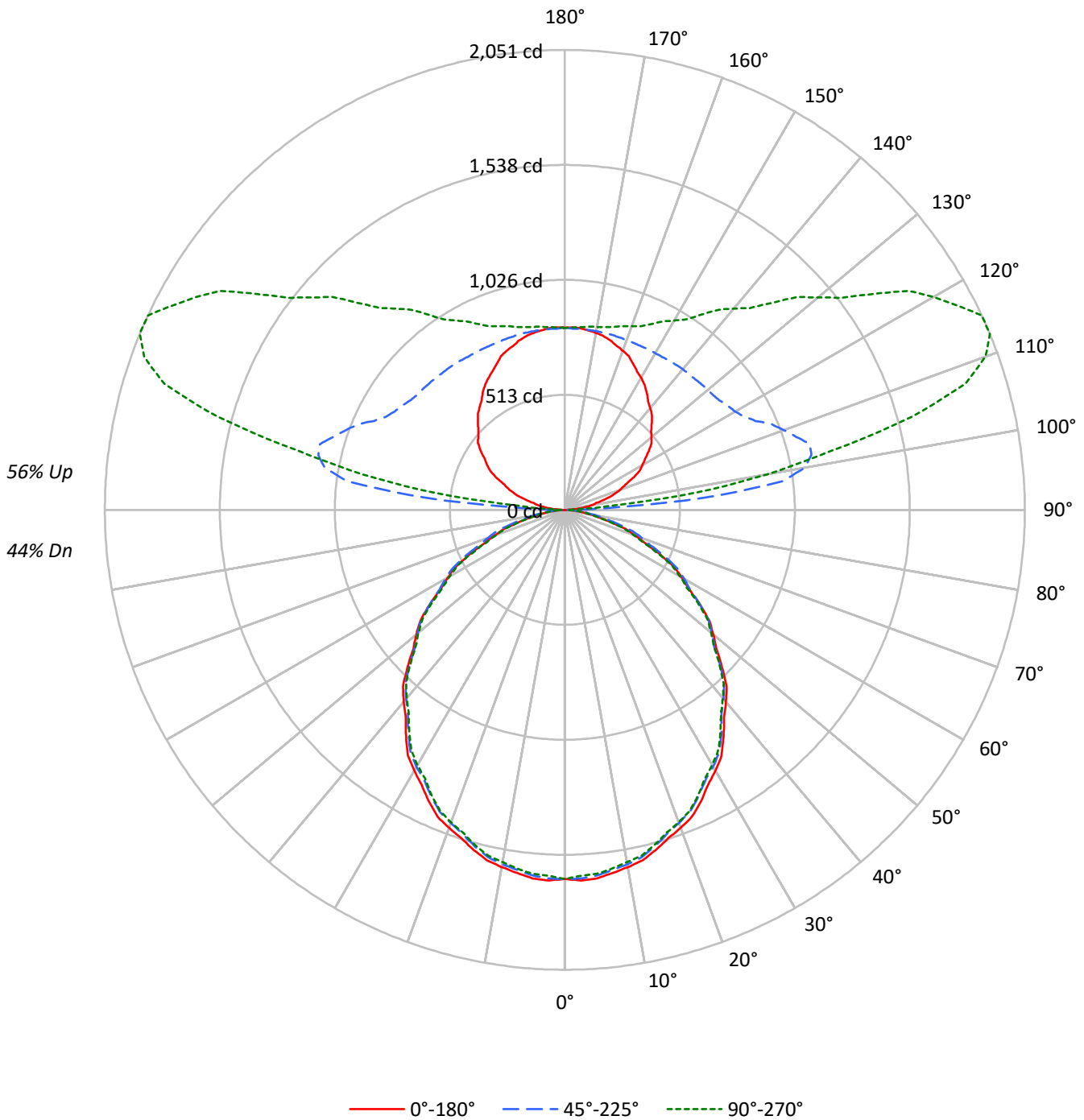
Lumens per Lamp: N/A  
Luminaire Lumens: 9422.6 lumens  
Efficiency: N/A  
Efficacy: 113.4 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 83.1  
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°	15182	15182	15182
5°	15280	15159	15092
10°	15158	15036	14954
15°	14998	14832	14776
20°	14819	14591	14563
25°	14611	14346	14302
30°	14302	14086	13993
35°	13896	13700	13618
40°	13463	13253	13201
45°	12940	12769	12712
50°	12403	12298	12215
55°	11824	11824	11638
60°	11103	11317	10915
65°	10160	10667	9907
70°	8956	9816	8721
75°	7650	8787	7443
80°	5929	7396	6009
85°	3832	5674	5060



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	155.0	1.6
10°-20°	437.5	4.6
20°-30°	648.9	6.9
30°-40°	759.3	8.1
40°-50°	755.9	8.0
50°-60°	652.8	6.9
60°-70°	469.9	5.0
70°-80°	246.4	2.6
80°-90°	62.8	0.7
90°-100°	377.3	4.0
100°-110°	1020.1	10.8
110°-120°	1072.5	11.4
120°-130°	871.2	9.2
130°-140°	683.3	7.3
140°-150°	524.5	5.6
150°-160°	377.2	4.0
160°-170°	230.4	2.4
170°-180°	77.7	0.8
0°-30°	1241.3	13.2
0°-40°	2000.7	21.2
0°-60°	3409.3	36.2
0°-90°	4188.4	44.5
90°-120°	2469.9	26.2
90°-150°	4548.9	48.3
90°-180°	5234.0	55.5
0°-180°	9422.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1646	1646	1646	1646	1646	
5°	1650	1632	1637	1632	1630	156
15°	1570	1550	1553	1550	1547	443
25°	1435	1411	1409	1401	1405	660
35°	1234	1217	1216	1205	1209	771
45°	992	983	979	976	974	765
55°	735	734	735	725	724	656
65°	465	480	489	469	454	461
75°	215	234	246	230	209	230
85°	36	48	54	51	48	48
90°	2	5	11	12	11	5
95°	58	206	627	325	193	61
105°	190	293	1132	1669	1601	200
115°	334	408	938	1817	2051	330
125°	457	524	846	1428	1677	407
135°	548	613	823	1153	1305	423
145°	637	685	812	987	1062	399
155°	719	747	805	885	914	332
165°	783	791	808	840	844	221
175°	813	812	809	820	818	77
180°	812	812	812	812	812	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1645.5	1645.5	1645.5	1645.5	1645.5
2.5°	1654.8	1641.2	1645.5	1641.9	1633.9
5°	1649.9	1631.5	1636.8	1632.4	1629.6
7.5°	1633.1	1616.1	1620.0	1615.3	1613.6
10°	1618.0	1601.0	1604.9	1599.1	1596.2
12.5°	1600.6	1582.5	1586.4	1580.6	1578.9
15°	1570.2	1550.3	1552.8	1549.8	1547.0
17.5°	1534.8	1514.6	1515.1	1510.4	1509.8
20°	1509.3	1488.0	1486.1	1480.3	1483.2
22.5°	1481.4	1459.0	1457.1	1449.0	1453.0
25°	1435.3	1411.2	1409.2	1400.6	1404.9
27.5°	1382.0	1358.1	1358.2	1346.1	1350.6
30°	1342.5	1319.8	1322.2	1307.9	1313.5
32.5°	1300.8	1280.4	1281.6	1267.3	1272.9
35°	1233.8	1216.8	1216.4	1204.9	1209.1
37.5°	1165.4	1150.3	1148.0	1141.3	1142.5
40°	1117.8	1105.1	1100.4	1096.1	1096.1
42.5°	1067.9	1056.3	1051.7	1048.5	1047.3
45°	991.7	983.2	978.6	975.7	974.3
47.5°	916.3	908.3	904.4	902.3	900.9
50°	864.1	858.4	856.8	852.5	851.0
52.5°	811.9	808.5	807.0	801.4	800.0
55°	735.1	733.6	735.1	724.9	723.5
57.5°	655.0	657.3	662.0	648.3	644.9
60°	601.7	607.3	613.3	597.2	591.5
62.5°	547.2	556.2	564.6	546.1	538.2
65°	465.4	479.6	488.6	469.4	453.8
67.5°	386.5	404.1	414.9	394.2	376.7
70°	332.0	351.9	363.9	343.2	323.3
72.5°	284.5	306.6	316.3	296.8	276.9
75°	214.6	234.4	246.5	230.0	208.8
77.5°	152.2	170.9	180.9	166.6	149.0
80°	111.6	131.5	139.2	127.3	113.1
82.5°	79.2	95.6	100.9	93.7	84.1
85°	36.2	47.6	53.6	50.7	47.8
87.5°	9.6	18.3	24.3	24.5	25.5
90°	1.7	5.2	11.4	12.2	11.4
92.5°	24.8	90.4	178.4	77.5	56.1
95°	58.5	205.5	627.4	324.7	193.1
97.5°	94.0	235.7	978.0	809.4	594.4
100°	120.6	247.9	1087.1	1133.7	916.7
102.5°	145.1	264.9	1125.6	1379.7	1217.3
105°	189.6	293.0	1131.7	1669.3	1600.9
107.5°	230.9	325.2	1082.2	1850.0	1872.7
110°	263.0	348.5	1038.2	1898.5	1995.1

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	291.7	371.7	997.6	1888.8	2051.0
115°	333.8	408.2	938.5	1816.9	2051.0
117.5°	375.1	444.8	899.6	1706.9	1972.3
120°	400.2	468.6	876.5	1628.1	1898.9
122.5°	424.0	491.0	862.5	1543.5	1816.4
125°	457.0	523.7	845.9	1427.5	1677.0
127.5°	487.4	552.9	836.1	1332.8	1552.2
130°	504.2	571.7	831.9	1274.2	1472.5
132.5°	521.7	588.5	827.7	1221.5	1404.0
135°	547.9	612.9	823.2	1152.6	1304.7
137.5°	574.3	635.7	819.3	1096.7	1220.6
140°	592.5	649.7	817.9	1060.8	1171.0
142.5°	610.0	663.8	815.2	1028.3	1124.9
145°	637.1	684.9	811.8	986.6	1061.8
147.5°	661.7	704.1	808.0	948.8	1006.5
150°	679.9	717.5	806.6	928.2	974.4
152.5°	696.7	729.5	805.9	909.2	947.1
155°	719.2	747.4	804.8	885.0	914.1
157.5°	742.6	762.3	805.0	868.2	887.3
160°	755.9	772.1	805.7	857.6	871.3
162.5°	766.4	779.9	806.4	849.1	859.4
165°	783.0	790.7	808.3	839.9	844.2
167.5°	794.4	799.7	808.5	832.0	834.0
170°	801.3	803.9	809.2	828.4	828.4
172.5°	806.9	807.4	809.2	824.2	823.5
175°	812.7	811.8	809.2	819.7	817.9
177.5°	814.6	812.6	809.0	816.0	813.9
180°	811.8	811.8	811.8	811.8	811.8

(END OF REPORT)