

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: P564994

Luminaire Tested: **SQ4-PW1-100U-125D-935-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564994  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-PW1-100U-125D-935-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

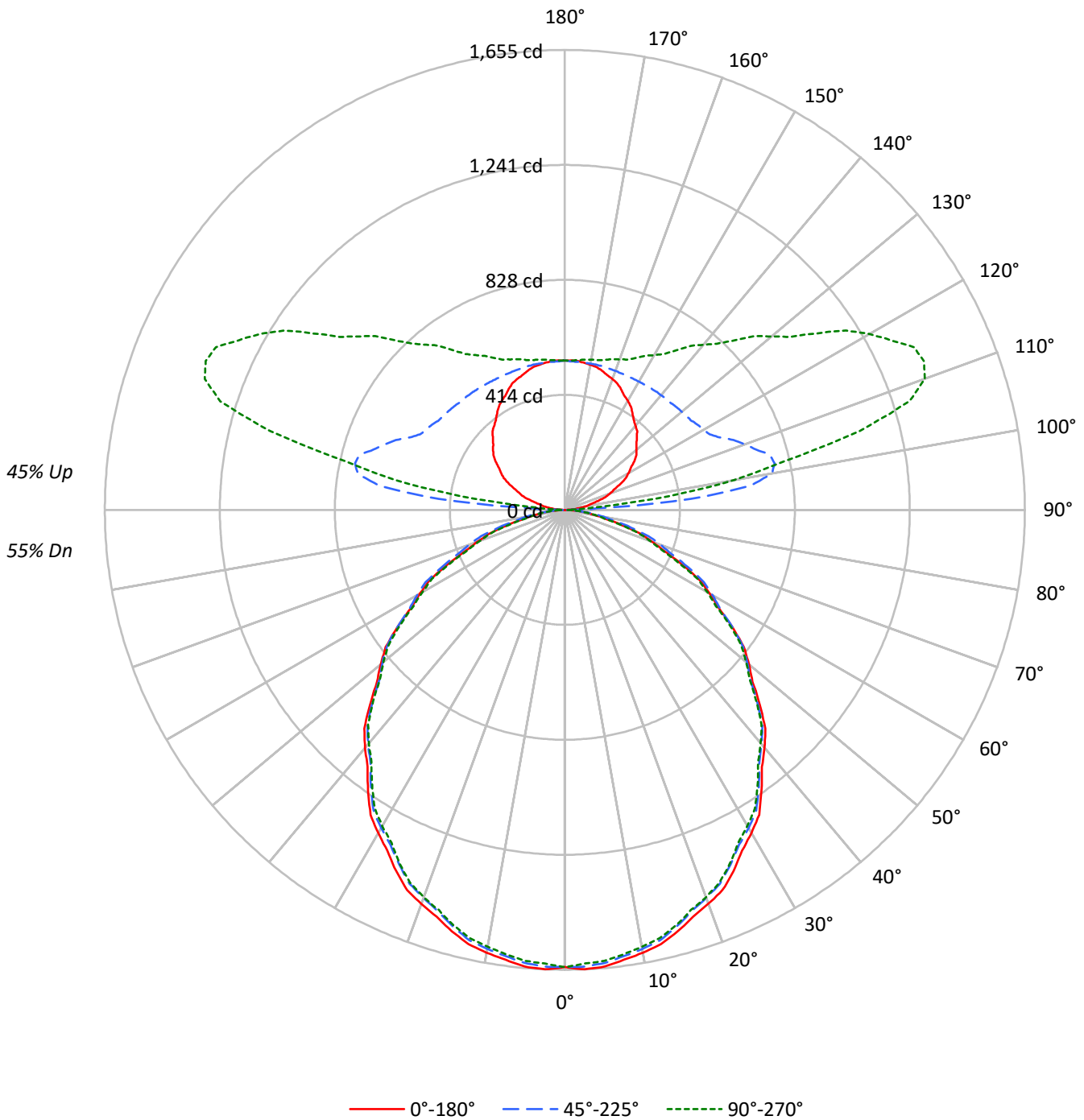
Lumens per Lamp: N/A  
Luminaire Lumens: 7677.6 lumens  
Efficiency: N/A  
Efficacy: 111.8 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 68.7  
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	108	108	108	108	100	100	100	100	86	86	86	73	73	73	60	60	60	55
1	99	95	91	87	92	88	85	82	76	73	71	64	62	61	53	52	51	46
2	90	83	77	71	83	77	72	67	66	62	59	56	53	51	47	45	43	39
3	82	73	65	60	76	68	61	56	59	54	49	50	46	43	42	39	37	33
4	75	64	57	50	70	60	53	48	52	47	42	44	40	37	37	34	32	28
5	69	57	49	43	64	54	46	41	47	41	36	40	36	32	34	30	28	25
6	64	52	43	38	59	48	41	36	42	36	32	36	32	28	31	27	24	22
7	59	47	39	33	55	44	36	31	38	32	28	33	28	25	28	24	22	19
8	55	42	35	29	51	40	33	28	35	29	25	30	26	22	26	22	19	17
9	51	39	31	26	47	36	30	25	32	26	22	28	23	20	24	20	18	15
10	48	36	28	23	44	33	27	22	29	24	20	26	21	18	22	19	16	14

**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	2.0
10°-20°	437.5	5.7
20°-30°	648.9	8.5
30°-40°	759.3	9.9
40°-50°	755.9	9.8
50°-60°	652.8	8.5
60°-70°	469.9	6.1
70°-80°	246.4	3.2
80°-90°	62.2	0.8
90°-100°	251.5	3.3
100°-110°	694.4	9.0
110°-120°	716.1	9.3
120°-130°	575.5	7.5
130°-140°	452.3	5.9
140°-150°	346.9	4.5
150°-160°	249.3	3.2
160°-170°	152.5	2.0
170°-180°	51.4	0.7
0°-30°	1241.3	16.2
0°-40°	2000.7	26.1
0°-60°	3409.3	44.4
0°-90°	4187.8	54.5
90°-120°	1662.0	21.6
90°-150°	3036.6	39.6
90°-180°	3490.0	45.5
0°-180°	7677.6	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	3	7	8	9	4
95°	37	136	456	188	122	40
105°	124	191	764	1166	1098	132
115°	222	268	615	1218	1385	218
125°	304	346	558	944	1108	271
135°	366	406	542	764	862	283
145°	424	454	535	651	700	266
155°	479	495	531	584	602	221
165°	518	525	534	554	559	146
175°	537	538	534	542	540	51
180°	537	537	537	537	537	

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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	17.9	23.4	23.6	24.9
90°	1.7	3.4	6.9	7.8	8.6
92.5°	15.5	64.2	114.8	41.9	32.7
95°	37.0	136.1	456.3	187.6	122.0
97.5°	61.2	152.4	676.0	520.4	376.9
100°	79.1	162.2	757.1	762.4	619.6
102.5°	96.2	173.4	772.9	942.0	806.6
105°	123.7	191.0	764.0	1166.3	1098.2
107.5°	153.0	212.8	721.3	1274.5	1299.3
110°	173.6	227.4	688.3	1297.7	1378.4

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	192.2	243.9	657.4	1279.4	1398.3
115°	221.7	267.9	615.3	1218.1	1385.3
117.5°	247.5	293.5	587.6	1131.8	1322.0
120°	264.7	310.1	576.6	1073.4	1265.0
122.5°	281.2	324.5	567.7	1018.8	1200.3
125°	304.2	346.2	557.7	943.9	1107.7
127.5°	323.8	365.8	551.9	880.4	1021.8
130°	336.9	378.9	549.1	841.6	970.2
132.5°	349.2	389.2	546.4	809.1	925.5
135°	366.1	405.6	542.2	764.5	861.9
137.5°	385.0	421.0	540.2	727.0	810.2
140°	395.3	430.6	538.8	702.0	775.1
142.5°	407.0	439.6	537.4	679.8	744.2
145°	424.5	453.9	535.4	650.8	700.4
147.5°	441.4	467.1	533.5	626.3	664.8
150°	453.7	474.7	532.8	611.7	642.8
152.5°	463.4	483.0	532.1	599.2	624.9
155°	478.7	494.6	531.1	583.9	602.4
157.5°	492.8	505.0	531.2	572.8	585.4
160°	501.0	511.9	531.9	566.5	575.8
162.5°	507.9	517.5	532.6	561.0	568.2
165°	518.2	524.9	533.7	554.4	558.6
167.5°	526.1	530.1	534.5	550.4	551.7
170°	530.2	533.6	534.5	548.3	548.3
172.5°	533.7	535.7	534.5	545.5	544.8
175°	537.1	537.9	534.5	542.2	540.5
177.5°	538.5	537.8	534.3	539.1	537.8
180°	537.1	537.1	537.1	537.1	537.1

(END OF REPORT)