

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: P562376

Luminaire Tested: **SQ4-PW1-100U-100D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562376  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, 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-100D-92765-1D-UNV-STD-W-4 (3000K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

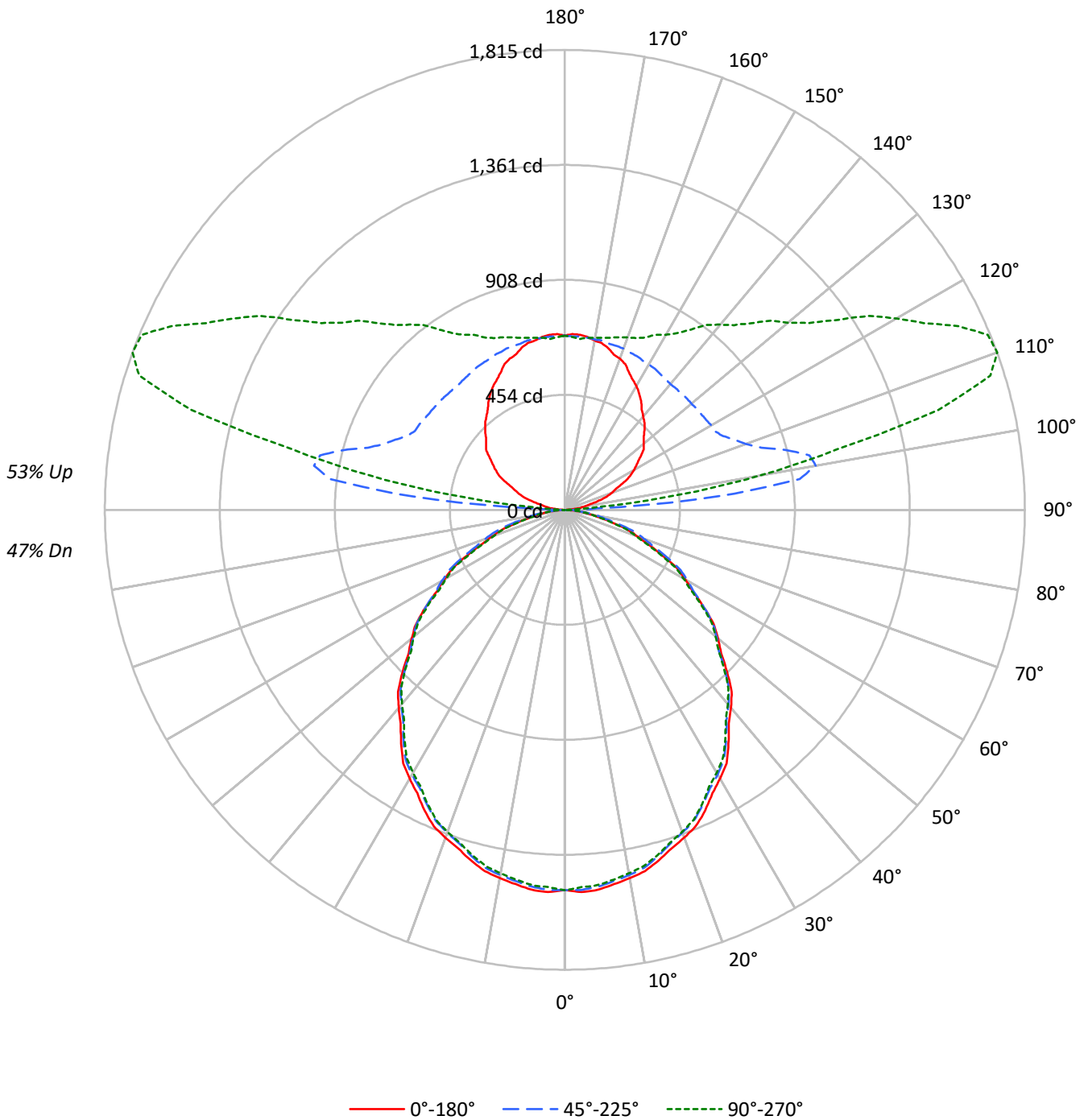
Lumens per Lamp: N/A  
Luminaire Lumens: 8089.4 lumens  
Efficiency: N/A  
Efficacy: 108.1 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 74.8  
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	98	98	98	98	82	82	82	67	67	67	54	54	54	47
1	97	93	89	86	89	86	82	79	72	70	67	59	58	56	48	46	45	40
2	89	81	75	70	81	75	70	65	63	59	56	52	49	47	42	40	38	34
3	81	71	64	58	74	66	60	55	56	51	47	46	43	40	37	35	33	29
4	74	63	55	49	68	58	52	46	49	44	40	41	37	34	33	30	28	25
5	68	56	48	42	62	52	45	40	44	39	35	37	33	30	30	27	25	21
6	63	51	42	37	57	47	40	35	40	34	30	33	29	26	27	24	22	19
7	58	46	38	32	53	42	35	30	36	31	27	30	26	23	25	22	19	17
8	54	41	34	28	49	38	32	27	33	27	24	28	23	20	23	20	17	15
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	16	13
10	47	35	27	23	43	32	26	21	28	23	19	24	19	17	20	16	14	12

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

	0°	45°	90°
0°	13850	13850	13850
5°	13939	13829	13768
10°	13828	13716	13642
15°	13682	13530	13479
20°	13518	13311	13284
25°	13330	13087	13047
30°	13047	12850	12766
35°	12677	12499	12424
40°	12281	12091	12043
45°	11804	11649	11597
50°	11315	11220	11144
55°	10787	10787	10616
60°	10129	10324	9957
65°	9269	9730	9038
70°	8171	8956	7955
75°	6976	8014	6791
80°	5409	6748	5483
85°	3504	5176	4615



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	141.4	1.7
10°-20°	399.1	4.9
20°-30°	592.0	7.3
30°-40°	692.7	8.6
40°-50°	689.6	8.5
50°-60°	595.5	7.4
60°-70°	428.6	5.3
70°-80°	224.8	2.8
80°-90°	55.7	0.7
90°-100°	313.2	3.9
100°-110°	891.3	11.0
110°-120°	853.9	10.6
120°-130°	675.9	8.4
130°-140°	542.5	6.7
140°-150°	424.7	5.3
150°-160°	310.7	3.8
160°-170°	192.5	2.4
170°-180°	65.3	0.8
0°-30°	1132.4	14.0
0°-40°	1825.1	22.6
0°-60°	3110.2	38.4
0°-90°	3819.4	47.2
90°-120°	2058.5	25.4
90°-150°	3701.5	45.8
90°-180°	4270.0	52.8
0°-180°	8089.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1501	1501	1501	1501	1501	
5°	1505	1488	1493	1489	1487	143
15°	1432	1414	1416	1414	1411	404
25°	1309	1287	1286	1278	1282	602
35°	1126	1110	1110	1099	1103	704
45°	905	897	893	890	889	698
55°	671	669	671	661	660	598
65°	425	438	446	428	414	421
75°	196	214	225	210	190	210
85°	33	43	49	46	44	44
90°	0	0	0	0	0	3
95°	34	135	606	210	129	39
105°	138	210	908	1604	1525	147
115°	258	311	689	1459	1713	253
125°	363	403	657	1091	1304	325
135°	444	481	650	922	1042	343
145°	524	551	655	798	869	327
155°	599	613	670	721	750	277
165°	661	664	678	693	703	186
175°	693	689	686	682	677	66
180°	687	687	687	687	687	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1501.2	1501.2	1501.2	1501.2	1501.2
2.5°	1509.6	1497.2	1501.2	1497.8	1490.6
5°	1505.1	1488.3	1493.2	1489.2	1486.6
7.5°	1489.8	1474.3	1477.9	1473.6	1472.1
10°	1476.0	1460.5	1464.1	1458.8	1456.2
12.5°	1460.2	1443.6	1447.2	1441.9	1440.3
15°	1432.4	1414.3	1416.5	1413.8	1411.2
17.5°	1400.1	1381.8	1382.1	1377.9	1377.4
20°	1376.8	1357.4	1355.7	1350.5	1353.0
22.5°	1351.4	1331.0	1329.2	1321.9	1325.5
25°	1309.4	1287.4	1285.6	1277.7	1281.6
27.5°	1260.7	1239.0	1239.0	1228.0	1232.1
30°	1224.7	1204.1	1206.2	1193.1	1198.3
32.5°	1186.7	1168.0	1169.2	1156.1	1161.3
35°	1125.5	1110.0	1109.7	1099.2	1103.1
37.5°	1063.1	1049.4	1047.2	1041.2	1042.2
40°	1019.7	1008.1	1003.9	999.9	999.9
42.5°	974.2	963.6	959.4	956.5	955.5
45°	904.7	896.9	892.8	890.1	888.8
47.5°	835.9	828.7	825.0	823.2	821.9
50°	788.3	783.1	781.7	777.7	776.4
52.5°	740.7	737.6	736.2	731.1	729.8
55°	670.6	669.3	670.6	661.3	660.0
57.5°	597.6	599.6	603.9	591.4	588.3
60°	548.9	554.1	559.5	544.8	539.6
62.5°	499.2	507.4	515.0	498.2	491.0
65°	424.6	437.5	445.7	428.2	414.0
67.5°	352.6	368.6	378.5	359.7	343.6
70°	302.9	321.0	332.0	313.0	294.9
72.5°	259.5	279.7	288.6	270.7	252.6
75°	195.7	213.9	224.8	209.9	190.5
77.5°	138.9	155.9	165.1	152.0	136.0
80°	101.8	119.9	127.0	116.1	103.2
82.5°	72.2	87.2	92.1	85.5	76.7
85°	33.1	43.4	48.9	46.2	43.6
87.5°	8.5	15.7	20.1	20.1	21.2
90°	0.0	0.0	0.0	0.0	0.0
92.5°	10.5	55.4	128.6	37.4	28.2
95°	34.0	134.9	606.4	209.9	129.4
97.5°	62.5	158.1	933.9	668.3	457.9
100°	82.3	171.8	1005.0	1018.0	784.1
102.5°	104.3	186.6	989.3	1303.0	1098.8
105°	138.5	210.1	908.3	1604.4	1525.1
107.5°	173.3	237.4	813.7	1689.3	1759.9
110°	197.3	257.4	759.3	1656.8	1815.3

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	220.3	277.3	722.7	1579.9	1805.9
115°	257.5	311.1	688.7	1459.0	1713.3
117.5°	290.1	340.5	668.6	1326.9	1596.2
120°	316.3	358.4	666.5	1251.3	1509.5
122.5°	337.2	379.3	661.3	1185.0	1424.8
125°	363.3	402.9	657.4	1090.9	1304.3
127.5°	391.8	428.9	655.3	1034.6	1210.4
130°	406.4	443.5	652.1	995.4	1148.8
132.5°	422.1	458.2	652.1	964.8	1105.9
135°	444.3	481.4	649.5	921.5	1041.6
137.5°	465.3	501.3	649.3	884.8	988.5
140°	480.9	518.0	648.2	854.4	954.0
142.5°	498.7	529.6	651.4	830.1	919.5
145°	524.1	550.9	654.8	797.5	869.1
147.5°	545.8	571.8	660.5	764.6	826.5
150°	564.6	582.5	662.6	753.8	797.2
152.5°	579.2	598.1	664.7	739.0	779.4
155°	598.6	612.6	670.4	720.8	750.2
157.5°	622.6	631.0	671.7	712.5	733.4
160°	635.1	641.5	677.0	706.1	724.0
162.5°	642.5	649.9	678.0	700.8	714.6
165°	661.3	663.8	678.3	692.9	703.1
167.5°	674.1	671.8	684.3	690.9	695.0
170°	678.3	677.0	682.2	683.6	688.7
172.5°	687.7	683.3	685.3	681.5	685.6
175°	692.7	688.8	686.1	682.1	677.0
177.5°	694.7	688.6	685.3	681.2	682.2
180°	687.4	687.4	687.4	687.4	687.4

(END OF REPORT)