

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: P561661

Luminaire Tested: **SQ4-PC3-100U-125D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P561661  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PC3-100U-125D-92765-1D-UNV-STD-W-4 (3000K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS  
DOWNLIGHT 1250 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: 9205.8 lumens  
Efficiency: N/A  
Efficacy: 104.5 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

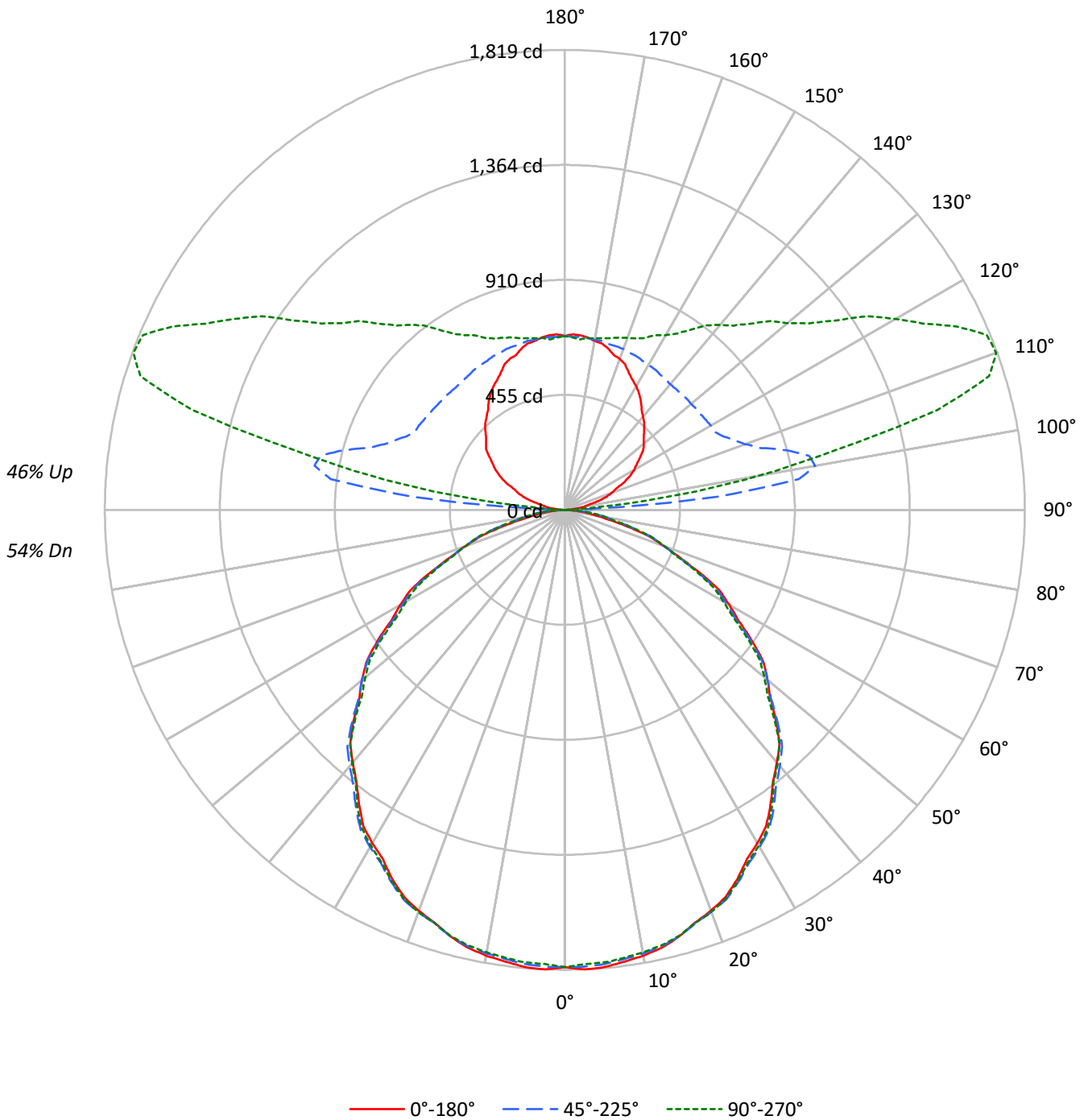
Input Watts (W): 88.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	50	30	10	0	
RCR																						
0	108	108	108	108	100	100	100	100	85	85	85	72	72	72	59	59	59	54				
1	99	94	90	87	91	88	84	81	75	73	70	63	62	60	53	51	50	45				
2	90	82	76	71	83	77	71	67	66	62	58	56	53	50	46	44	42	38				
3	82	72	65	59	76	67	61	56	58	53	49	49	45	42	41	38	36	32				
4	75	64	56	50	69	60	53	47	51	46	42	44	40	36	37	34	31	28				
5	69	57	49	43	63	53	46	40	46	40	36	39	35	31	33	30	27	24				
6	63	51	43	37	59	48	40	35	41	36	31	35	31	27	30	26	24	21				
7	59	46	38	33	54	43	36	31	38	32	28	32	28	24	27	24	21	18				
8	54	42	34	29	50	39	32	27	34	28	24	29	25	22	25	21	19	16				
9	51	38	31	26	47	36	29	24	31	26	22	27	23	19	23	20	17	15				
10	47	35	28	23	44	33	26	22	29	23	20	25	21	18	21	18	15	13				

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

	0°	45°	90°
0°	16686	16686	16686
5°	16811	16703	16641
10°	16771	16692	16645
15°	16682	16682	16667
20°	16572	16621	16621
25°	16416	16535	16484
30°	16216	16413	16341
35°	15974	16220	16106
40°	15711	15933	15772
45°	15425	15535	15295
50°	15022	15022	14781
55°	14544	14356	14141
60°	13843	13564	13348
65°	12795	12540	12428
70°	11203	11292	11249
75°	9015	9967	10028
80°	6408	8453	8544
85°	3896	7093	7093



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	171.2	1.9
10°-20°	491.2	5.3
20°-30°	743.8	8.1
30°-40°	891.7	9.7
40°-50°	909.2	9.9
50°-60°	793.7	8.6
60°-70°	568.2	6.2
70°-80°	292.7	3.2
80°-90°	74.0	0.8
90°-100°	313.2	3.4
100°-110°	891.3	9.7
110°-120°	853.9	9.3
120°-130°	675.9	7.3
130°-140°	542.5	5.9
140°-150°	424.7	4.6
150°-160°	310.7	3.4
160°-170°	192.5	2.1
170°-180°	65.3	0.7
0°-30°	1406.1	15.3
0°-40°	2297.8	25.0
0°-60°	4000.8	43.5
0°-90°	4935.7	53.6
90°-120°	2058.5	22.4
90°-150°	3701.5	40.2
90°-180°	4270.0	46.4
0°-180°	9205.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1808	1808	1808	1808	1808	
5°	1815	1797	1804	1798	1797	172
15°	1746	1732	1746	1746	1745	492
25°	1613	1601	1624	1619	1619	742
35°	1418	1415	1440	1430	1430	887
45°	1182	1179	1191	1175	1172	910
55°	904	893	892	879	879	806
65°	586	573	574	569	569	580
75°	253	264	280	281	281	273
85°	37	56	67	69	67	50
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°	1808.5	1808.5	1808.5	1808.5	1808.5
2.5°	1819.2	1803.5	1808.5	1804.3	1797.8
5°	1815.2	1797.2	1803.5	1798.4	1796.8
7.5°	1802.1	1784.1	1792.4	1789.0	1787.4
10°	1790.1	1772.1	1781.7	1778.3	1776.7
12.5°	1774.0	1757.3	1768.3	1764.9	1764.6
15°	1746.5	1731.8	1746.5	1746.5	1744.9
17.5°	1712.0	1698.6	1714.4	1715.4	1714.4
20°	1687.9	1673.2	1692.9	1691.3	1692.9
22.5°	1658.5	1646.3	1667.5	1663.2	1664.8
25°	1612.6	1601.1	1624.3	1619.3	1619.3
27.5°	1558.3	1550.1	1575.4	1570.0	1570.0
30°	1522.1	1514.0	1540.6	1533.9	1533.9
32.5°	1482.0	1476.4	1501.7	1493.7	1493.7
35°	1418.3	1415.0	1440.1	1430.0	1430.0
37.5°	1352.7	1349.7	1372.4	1360.3	1356.4
40°	1304.5	1302.8	1322.9	1309.5	1309.5
42.5°	1256.2	1254.6	1272.0	1255.9	1255.9
45°	1182.2	1178.9	1190.6	1175.4	1172.2
47.5°	1101.5	1098.2	1105.5	1089.1	1087.4
50°	1046.6	1043.3	1046.6	1031.5	1029.8
52.5°	990.3	984.4	985.0	969.9	969.6
55°	904.2	892.8	892.5	879.1	879.1
57.5°	813.1	798.1	799.4	788.0	786.4
60°	750.2	733.8	735.1	725.0	723.4
62.5°	688.6	669.6	673.5	662.1	661.8
65°	586.1	573.0	574.4	569.3	569.3
67.5°	487.6	475.5	484.3	480.2	479.9
70°	415.3	407.1	418.6	418.6	417.0
72.5°	348.3	348.0	362.4	362.4	363.4
75°	252.9	264.3	279.6	281.3	281.3
77.5°	168.8	189.1	206.0	206.6	206.3
80°	120.6	143.5	159.1	162.4	160.8
82.5°	81.7	105.9	118.9	122.2	120.6
85°	36.8	56.5	67.0	68.6	67.0
87.5°	10.7	22.5	26.8	26.7	24.1
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)