

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: P562025

Luminaire Tested: **SQ4-PR1-100U-125D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562025  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PR1-100U-125D-92765-1D-UNV-STD-W-4 (3000K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE 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**

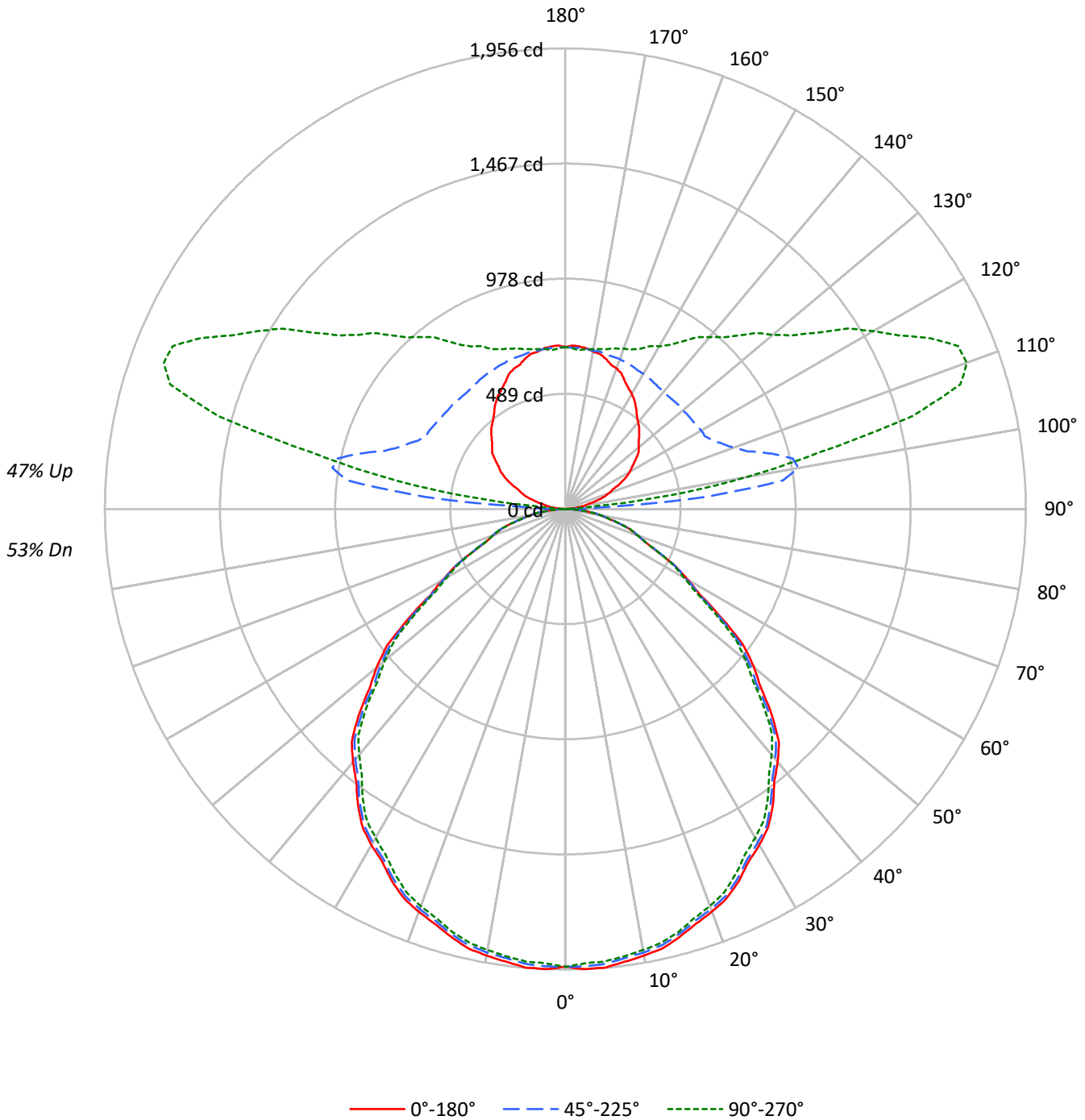
Lumens per Lamp: N/A  
Luminaire Lumens: 9130.1 lumens  
Efficiency: N/A  
Efficacy: 103.6 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

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	0
RCR																		
0	108	108	108	108	100	100	100	100	85	85	85	72	72	72	59	59	59	53
1	99	95	91	87	91	88	85	82	75	73	71	63	62	60	53	52	51	45
2	90	83	77	72	83	77	72	67	66	62	59	56	53	51	47	45	43	39
3	83	73	66	60	76	68	62	57	59	54	50	50	46	43	42	39	37	33
4	76	65	57	51	70	61	54	48	52	47	43	45	41	37	37	34	32	29
5	69	58	50	44	64	54	47	42	47	41	37	40	36	32	34	31	28	25
6	64	52	44	38	59	49	42	36	42	37	32	36	32	29	31	27	25	22
7	59	47	39	34	55	44	37	32	38	33	29	33	29	25	28	25	22	20
8	55	43	35	30	51	40	33	28	35	29	25	30	26	23	26	22	20	18
9	51	39	32	27	48	37	30	25	32	27	23	28	24	20	24	20	18	16
10	48	36	29	24	44	34	27	23	30	24	21	26	21	18	22	19	16	14

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

	0°	45°	90°
0°	17937	17937	17937
5°	18099	17959	17865
10°	18041	17915	17822
15°	17962	17850	17754
20°	17871	17756	17625
25°	17746	17627	17422
30°	17554	17429	17180
35°	17295	17144	16899
40°	16900	16719	16417
45°	16212	15927	15600
50°	14998	14638	14349
55°	13090	12794	12526
60°	11031	10939	10723
65°	9542	9577	9505
70°	8764	8808	8808
75°	8416	8416	8477
80°	7917	8007	7917
85°	6383	7093	7093



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	183.8	2.0
10°-20°	526.0	5.8
20°-30°	793.4	8.7
30°-40°	945.3	10.4
40°-50°	932.0	10.2
50°-60°	712.3	7.8
60°-70°	440.8	4.8
70°-80°	250.4	2.7
80°-90°	76.2	0.8
90°-100°	313.2	3.4
100°-110°	891.3	9.8
110°-120°	853.9	9.4
120°-130°	675.9	7.4
130°-140°	542.5	5.9
140°-150°	424.7	4.7
150°-160°	310.7	3.4
160°-170°	192.5	2.1
170°-180°	65.3	0.7
0°-30°	1503.2	16.5
0°-40°	2448.5	26.8
0°-60°	4092.8	44.8
0°-90°	4860.1	53.2
90°-120°	2058.5	22.5
90°-150°	3701.5	40.5
90°-180°	4270.0	46.8
0°-180°	9130.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1944	1944	1944	1944	1944	
5°	1954	1933	1939	1932	1929	185
15°	1880	1861	1869	1862	1859	531
25°	1743	1722	1732	1713	1711	802
35°	1536	1518	1522	1502	1500	958
45°	1242	1226	1221	1199	1196	952
55°	814	801	795	782	779	729
65°	437	434	439	435	435	443
75°	236	236	236	238	238	249
85°	60	64	67	67	67	70
90°	0	0	0	0	0	4
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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CATALOG NUMBER: SQ4-PR1-100U-125D-92765-1D-UNV-STD-W-4 (3000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1944.1	1944.1	1944.1	1944.1	1944.1
2.5°	1956.2	1939.1	1944.1	1939.9	1930.7
5°	1954.2	1932.9	1939.1	1932.3	1929.0
7.5°	1939.1	1918.1	1924.4	1917.6	1915.7
10°	1925.7	1906.1	1912.3	1905.5	1902.3
12.5°	1911.0	1890.0	1897.6	1889.5	1886.2
15°	1880.5	1860.8	1868.8	1862.0	1858.7
17.5°	1847.0	1826.0	1833.9	1826.1	1821.9
20°	1820.2	1800.6	1808.5	1796.7	1795.1
22.5°	1790.7	1771.1	1779.0	1763.3	1762.9
25°	1743.2	1721.9	1731.5	1713.0	1711.4
27.5°	1686.6	1666.9	1674.9	1656.1	1654.1
30°	1647.7	1628.1	1636.0	1615.8	1612.6
32.5°	1603.5	1585.2	1591.8	1571.7	1569.7
35°	1535.5	1517.5	1522.1	1502.0	1500.4
37.5°	1458.2	1441.8	1444.4	1422.3	1420.7
40°	1403.2	1386.9	1388.2	1364.7	1363.1
42.5°	1343.0	1326.6	1325.2	1301.7	1300.1
45°	1242.5	1226.1	1220.7	1198.9	1195.6
47.5°	1128.0	1111.6	1101.5	1083.7	1081.4
50°	1044.9	1028.5	1019.8	1004.6	999.7
52.5°	955.1	938.8	931.4	917.5	912.6
55°	813.8	800.7	795.4	781.9	778.7
57.5°	679.5	670.7	669.1	656.0	654.7
60°	597.8	592.9	592.8	581.1	581.1
62.5°	528.1	524.5	527.1	519.4	518.1
65°	437.1	433.8	438.7	435.4	435.4
67.5°	365.0	365.0	368.1	366.7	366.7
70°	324.9	324.9	326.5	326.5	326.5
72.5°	288.7	287.4	291.7	291.7	290.4
75°	236.1	236.1	236.1	237.8	237.8
77.5°	183.9	184.2	185.5	185.2	183.9
80°	149.0	150.7	150.7	149.0	149.0
82.5°	114.2	115.8	115.9	115.5	114.2
85°	60.3	63.6	67.0	67.0	67.0
87.5°	17.4	22.7	26.8	26.8	25.5
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)