

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: P562129

Luminaire Tested: **SQ4-PR1-150U-125D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562129  
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-PR1-150U-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 1500 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

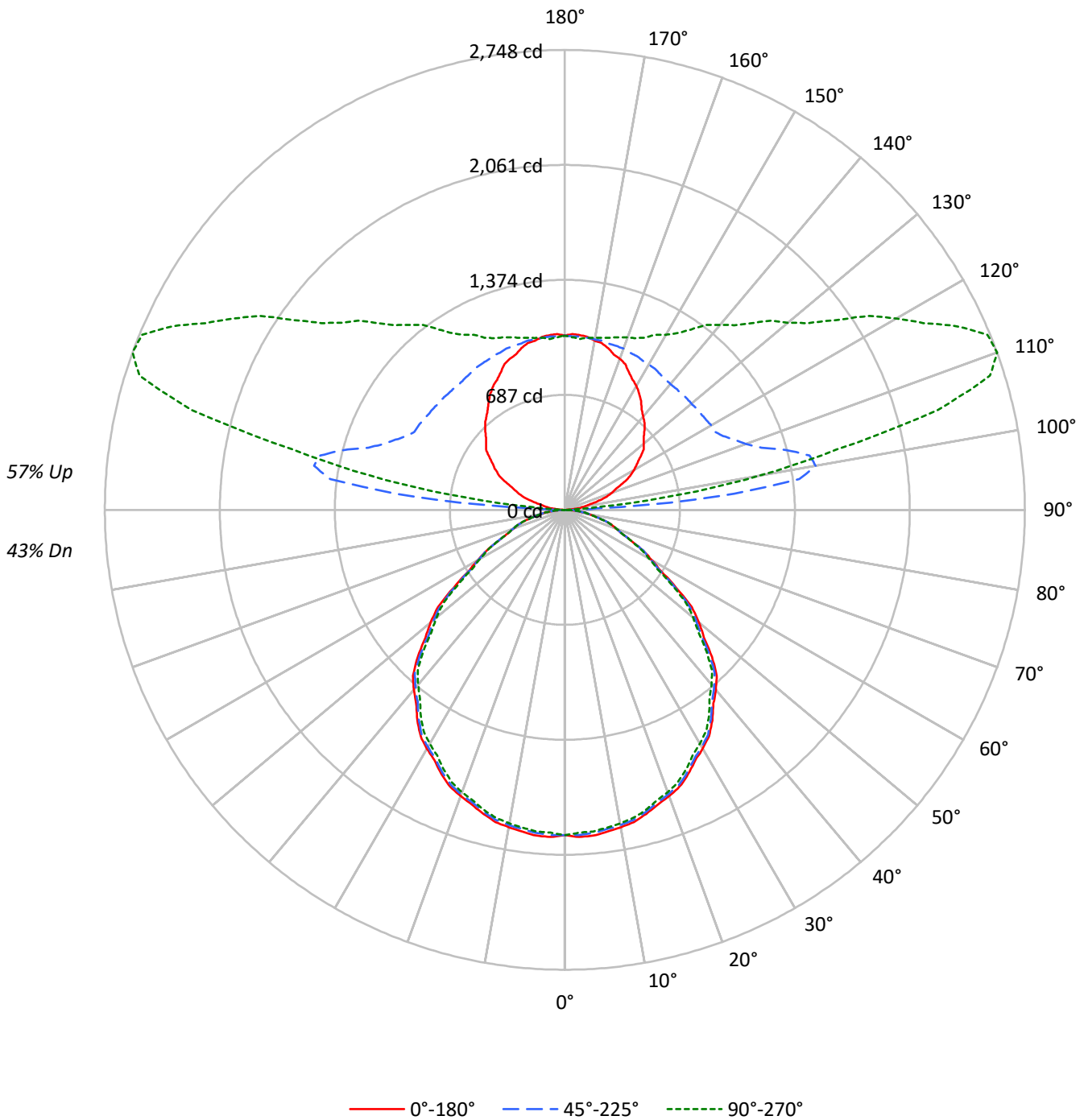
Lumens per Lamp: N/A  
Luminaire Lumens: 11323.5 lumens  
Efficiency: N/A  
Efficacy: 105.9 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 106.9  
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



TEST NUMBER: P562129  
CATALOG NUMBER: SQ4-PR1-150U-125D-92765-1D-UNV-STD-W-4 (3000K)

### Luminous Intensity Polar Plot





TEST NUMBER: P562129

CATALOG NUMBER: SQ4-PR1-150U-125D-92765-1D-UNV-STD-W-4 (3000K)

**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	105	105	105	105	96	96	96	96	79	79	79	64	64	64	50	50	50	43
1	96	92	89	85	88	84	81	78	70	68	66	57	55	54	44	43	42	37
2	88	81	75	70	80	74	69	65	62	58	55	50	47	45	39	38	36	31
3	80	71	64	58	73	65	59	54	54	50	46	44	41	38	35	33	31	27
4	74	63	55	50	67	58	51	46	49	44	40	40	36	33	31	29	27	23
5	68	56	48	43	62	52	45	40	43	38	34	36	32	29	28	26	23	20
6	62	50	43	37	57	47	40	35	39	34	30	32	28	25	26	23	21	18
7	58	46	38	32	53	42	35	30	35	30	26	29	25	22	24	21	18	16
8	53	41	34	29	49	38	31	27	32	27	23	27	23	20	22	19	17	14
9	50	38	30	25	45	35	28	24	30	24	21	25	21	18	20	17	15	13
10	46	35	27	23	42	32	26	21	27	22	19	23	19	16	18	16	14	12

**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



TEST NUMBER: P562129

CATALOG NUMBER: SQ4-PR1-150U-125D-92765-1D-UNV-STD-W-4 (3000K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	183.8	1.6
10°-20°	526.0	4.6
20°-30°	793.4	7.0
30°-40°	945.3	8.3
40°-50°	932.0	8.2
50°-60°	712.3	6.3
60°-70°	440.8	3.9
70°-80°	250.4	2.2
80°-90°	76.2	0.7
90°-100°	474.1	4.2
100°-110°	1349.1	11.9
110°-120°	1292.6	11.4
120°-130°	1023.0	9.0
130°-140°	821.1	7.3
140°-150°	642.8	5.7
150°-160°	470.4	4.2
160°-170°	291.4	2.6
170°-180°	98.9	0.9
0°-30°	1503.2	13.3
0°-40°	2448.5	21.6
0°-60°	4092.8	36.1
0°-90°	4860.1	42.9
90°-120°	3115.8	27.5
90°-150°	5602.8	49.5
90°-180°	6463.0	57.1
0°-180°	11323.5	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	5
95°	51	204	918	318	196	59
105°	210	318	1375	2428	2308	222
115°	390	471	1042	2208	2593	384
125°	550	610	995	1651	1974	492
135°	673	729	983	1395	1577	519
145°	793	834	991	1207	1316	496
155°	906	927	1015	1091	1136	419
165°	1001	1005	1027	1049	1064	281
175°	1048	1043	1038	1032	1025	99
180°	1040	1040	1040	1040	1040	

TEST NUMBER: P562129

CATALOG NUMBER: SQ4-PR1-150U-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°	15.8	83.9	194.7	56.7	42.7
95°	51.4	204.2	917.9	317.7	195.8
97.5°	94.6	239.2	1413.6	1011.5	693.2
100°	124.6	260.0	1521.2	1540.9	1186.9
102.5°	157.9	282.4	1497.5	1972.3	1663.2
105°	209.7	318.0	1374.8	2428.4	2308.5
107.5°	262.3	359.4	1231.6	2557.0	2663.8
110°	298.7	389.6	1149.3	2507.8	2747.7

TEST NUMBER: P562129

CATALOG NUMBER: SQ4-PR1-150U-125D-92765-1D-UNV-STD-W-4 (3000K)

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	333.5	419.8	1093.9	2391.5	2733.4
115°	389.7	470.9	1042.5	2208.5	2593.4
117.5°	439.2	515.4	1012.0	2008.4	2416.1
120°	478.7	542.5	1008.9	1894.1	2284.8
122.5°	510.4	574.2	1001.0	1793.7	2156.6
125°	549.9	609.9	995.0	1651.2	1974.2
127.5°	593.1	649.1	991.9	1566.0	1832.2
130°	615.2	671.3	987.1	1506.7	1738.8
132.5°	638.9	693.5	987.1	1460.4	1673.9
135°	672.6	728.7	983.2	1394.8	1576.6
137.5°	704.2	758.8	982.8	1339.2	1496.3
140°	728.0	784.1	981.2	1293.2	1444.1
142.5°	754.9	801.7	985.9	1256.4	1391.8
145°	793.2	833.9	991.1	1207.2	1315.5
147.5°	826.1	865.5	999.8	1157.4	1251.0
150°	854.6	881.6	1002.9	1140.9	1206.7
152.5°	876.7	905.4	1006.1	1118.7	1179.8
155°	906.0	927.3	1014.8	1091.0	1135.5
157.5°	942.4	955.2	1016.8	1078.4	1110.1
160°	961.4	971.1	1024.7	1068.8	1095.9
162.5°	972.5	983.7	1026.3	1060.8	1081.7
165°	1001.0	1004.8	1026.7	1048.8	1064.3
167.5°	1020.3	1016.9	1035.8	1045.8	1052.0
170°	1026.7	1024.7	1032.6	1034.8	1042.5
172.5°	1040.9	1034.3	1037.4	1031.6	1037.7
175°	1048.4	1042.6	1038.5	1032.4	1024.7
177.5°	1051.6	1042.3	1037.4	1031.1	1032.6
180°	1040.5	1040.5	1040.5	1040.5	1040.5

(END OF REPORT)