

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: P562135

Luminaire Tested: **SQ4-PR1-150U-125D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562135  
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 (6500K)  
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 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

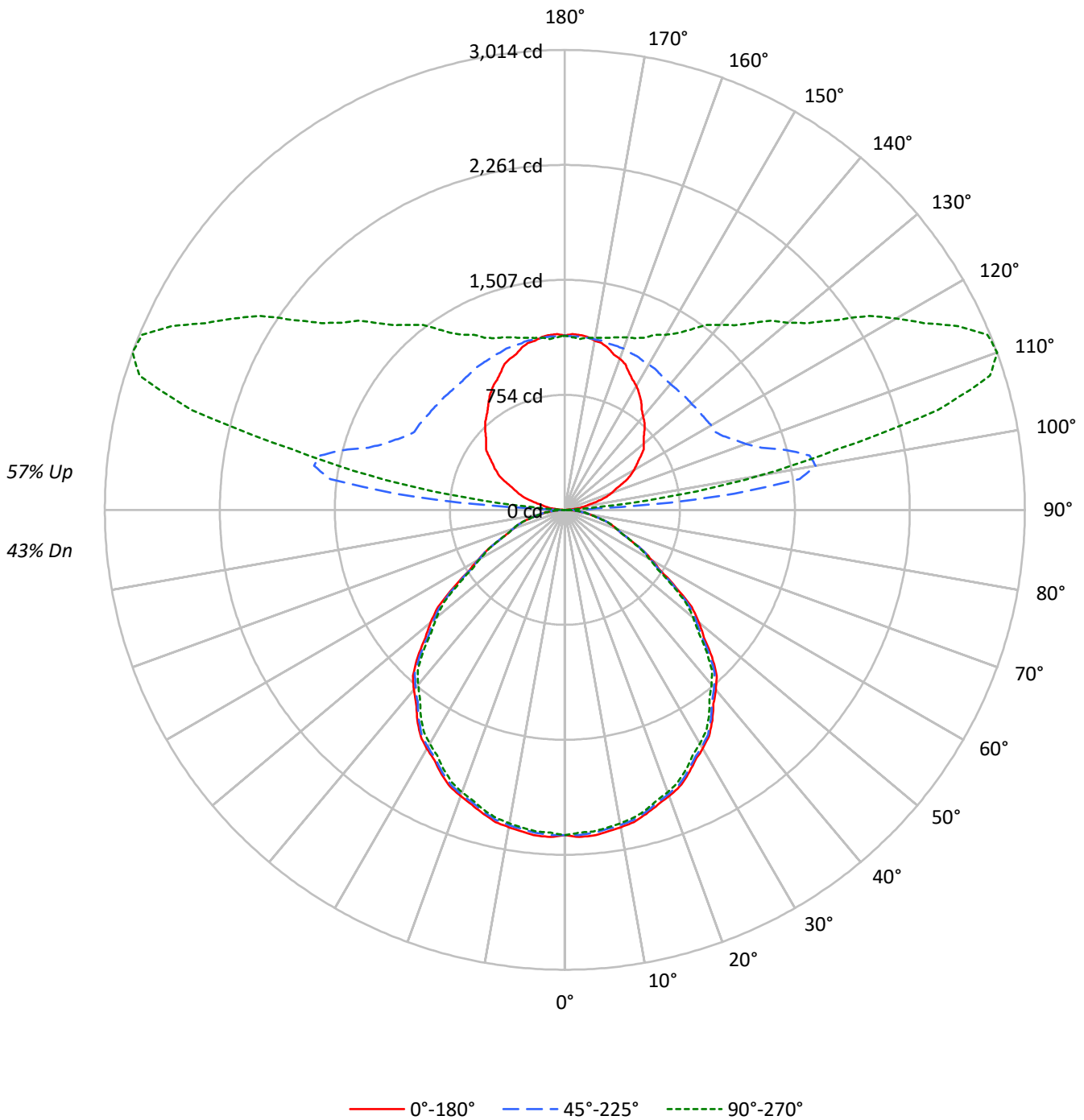
Lumens per Lamp: N/A  
Luminaire Lumens: 12420.0 lumens  
Efficiency: N/A  
Efficacy: 116.9 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 106.2  
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	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°	19674	19674	19674
5°	19851	19698	19595
10°	19788	19650	19547
15°	19701	19578	19473
20°	19602	19476	19331
25°	19464	19333	19109
30°	19254	19117	18843
35°	18969	18804	18536
40°	18537	18338	18007
45°	17782	17470	17111
50°	16450	16054	15739
55°	14358	14033	13739
60°	12099	11998	11760
65°	10466	10505	10424
70°	9611	9663	9663
75°	9233	9233	9297
80°	8687	8783	8687
85°	6997	7781	7781



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	201.7	1.6
10°-20°	576.9	4.6
20°-30°	870.2	7.0
30°-40°	1036.8	8.3
40°-50°	1022.2	8.2
50°-60°	781.2	6.3
60°-70°	483.5	3.9
70°-80°	274.6	2.2
80°-90°	83.5	0.7
90°-100°	520.1	4.2
100°-110°	1479.7	11.9
110°-120°	1417.7	11.4
120°-130°	1122.1	9.0
130°-140°	900.6	7.3
140°-150°	705.1	5.7
150°-160°	515.9	4.2
160°-170°	319.6	2.6
170°-180°	108.4	0.9
0°-30°	1648.8	13.3
0°-40°	2685.6	21.6
0°-60°	4489.1	36.1
0°-90°	5330.7	42.9
90°-120°	3417.5	27.5
90°-150°	6145.3	49.5
90°-180°	7089.0	57.1
0°-180°	12420.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2132	2132	2132	2132	2132	
5°	2143	2120	2127	2119	2116	203
15°	2063	2041	2050	2042	2039	582
25°	1912	1889	1899	1879	1877	880
35°	1684	1664	1670	1648	1646	1051
45°	1363	1345	1339	1315	1311	1044
55°	893	878	872	858	854	800
65°	479	476	481	478	478	486
75°	259	259	259	261	261	274
85°	66	70	74	74	74	77
90°	0	0	0	0	0	5
95°	56	224	1007	348	215	64
105°	230	349	1508	2664	2532	243
115°	427	516	1143	2422	2844	421
125°	603	669	1091	1811	2165	540
135°	738	799	1078	1530	1729	569
145°	870	915	1087	1324	1443	544
155°	994	1017	1113	1197	1245	459
165°	1098	1102	1126	1150	1167	309
175°	1150	1144	1139	1132	1124	109
180°	1141	1141	1141	1141	1141	



TEST NUMBER: P562135

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2132.4	2132.4	2132.4	2132.4	2132.4
2.5°	2145.6	2126.9	2132.4	2127.7	2117.7
5°	2143.4	2120.1	2126.9	2119.4	2115.8
7.5°	2126.9	2103.9	2110.7	2103.3	2101.2
10°	2112.2	2090.6	2097.5	2090.1	2086.5
12.5°	2096.0	2073.0	2081.3	2072.4	2068.8
15°	2062.6	2041.0	2049.7	2042.3	2038.7
17.5°	2025.9	2002.9	2011.5	2003.0	1998.3
20°	1996.5	1974.9	1983.6	1970.7	1968.9
22.5°	1964.1	1942.6	1951.3	1934.0	1933.7
25°	1912.0	1888.6	1899.1	1878.9	1877.1
27.5°	1849.9	1828.3	1837.0	1816.4	1814.3
30°	1807.3	1785.7	1794.4	1772.3	1768.7
32.5°	1758.8	1738.7	1745.9	1723.9	1721.7
35°	1684.2	1664.5	1669.5	1647.5	1645.7
37.5°	1599.4	1581.4	1584.3	1560.0	1558.2
40°	1539.1	1521.2	1522.6	1496.8	1495.1
42.5°	1473.0	1455.1	1453.5	1427.8	1426.0
45°	1362.8	1344.9	1338.9	1315.0	1311.4
47.5°	1237.2	1219.2	1208.2	1188.6	1186.1
50°	1146.1	1128.1	1118.5	1101.9	1096.5
52.5°	1047.6	1029.7	1021.6	1006.4	1001.0
55°	892.6	878.3	872.4	857.6	854.1
57.5°	745.3	735.6	733.9	719.6	718.1
60°	655.7	650.3	650.2	637.3	637.3
62.5°	579.3	575.3	578.2	569.7	568.3
65°	479.4	475.8	481.2	477.5	477.5
67.5°	400.4	400.4	403.7	402.2	402.2
70°	356.3	356.3	358.2	358.2	358.2
72.5°	316.6	315.2	319.9	319.9	318.5
75°	259.0	259.0	259.0	260.8	260.8
77.5°	201.7	202.0	203.5	203.1	201.7
80°	163.5	165.3	165.3	163.5	163.5
82.5°	125.3	127.1	127.1	126.7	125.3
85°	66.1	69.7	73.5	73.5	73.5
87.5°	19.1	24.8	29.4	29.4	27.9
90°	0.0	0.0	0.0	0.0	0.0
92.5°	17.4	92.0	213.5	62.1	46.9
95°	56.4	224.0	1006.8	348.5	214.8
97.5°	103.7	262.4	1550.5	1109.5	760.3
100°	136.7	285.2	1668.5	1690.1	1301.8
102.5°	173.1	309.8	1642.5	2163.3	1824.3
105°	230.0	348.8	1508.0	2663.6	2532.1
107.5°	287.7	394.2	1350.9	2804.6	2921.8
110°	327.6	427.3	1260.6	2750.7	3013.7

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	365.8	460.4	1199.9	2623.0	<i>2998.1</i>
115°	427.4	516.5	1143.4	2422.3	<i>2844.5</i>
117.5°	481.7	565.3	1110.0	2202.9	<i>2650.1</i>
120°	525.1	595.1	1106.6	2077.5	<i>2506.0</i>
122.5°	559.8	629.8	1097.9	1967.4	<i>2365.4</i>
125°	603.2	669.0	1091.4	1811.1	<i>2165.4</i>
127.5°	650.5	712.0	1087.9	1717.7	<i>2009.6</i>
130°	674.8	736.3	1082.7	1652.6	<i>1907.2</i>
132.5°	700.8	760.6	1082.7	1601.8	<i>1836.0</i>
135°	737.7	799.2	1078.4	1529.8	<i>1729.3</i>
137.5°	772.4	832.2	1077.9	1468.9	<i>1641.2</i>
140°	798.5	860.0	1076.2	1418.4	<i>1583.9</i>
142.5°	828.0	879.3	1081.4	1378.1	<i>1526.6</i>
145°	870.1	914.6	1087.0	1324.1	<i>1442.9</i>
147.5°	906.1	949.4	1096.6	1269.5	<i>1372.1</i>
150°	937.3	967.0	1100.1	1251.4	<i>1323.5</i>
152.5°	961.6	993.0	1103.5	1227.0	<i>1294.0</i>
155°	993.7	1017.1	1113.1	1196.6	<i>1245.4</i>
157.5°	1033.7	1047.7	1115.2	1182.9	<i>1217.7</i>
160°	1054.5	1065.1	1123.9	1172.3	<i>1202.0</i>
162.5°	1066.6	1078.9	1125.7	1163.5	<i>1186.4</i>
165°	1097.9	1102.1	1126.1	1150.3	<i>1167.3</i>
167.5°	1119.1	1115.3	1136.1	1147.1	<i>1153.9</i>
170°	1126.1	1124.0	1132.6	1135.0	<i>1143.4</i>
172.5°	1141.7	1134.5	1137.8	1131.4	<i>1138.2</i>
175°	1150.0	1143.6	1139.1	1132.4	<i>1123.9</i>
177.5°	1153.4	1143.2	1137.8	1130.9	<i>1132.6</i>
180°	1141.3	1141.3	1141.3	1141.3	<i>1141.3</i>

(END OF REPORT)