

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: P565191

Luminaire Tested: **SQ4-PW1-150U-125D-940-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P565191
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, 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-PW1-150U-125D-940-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

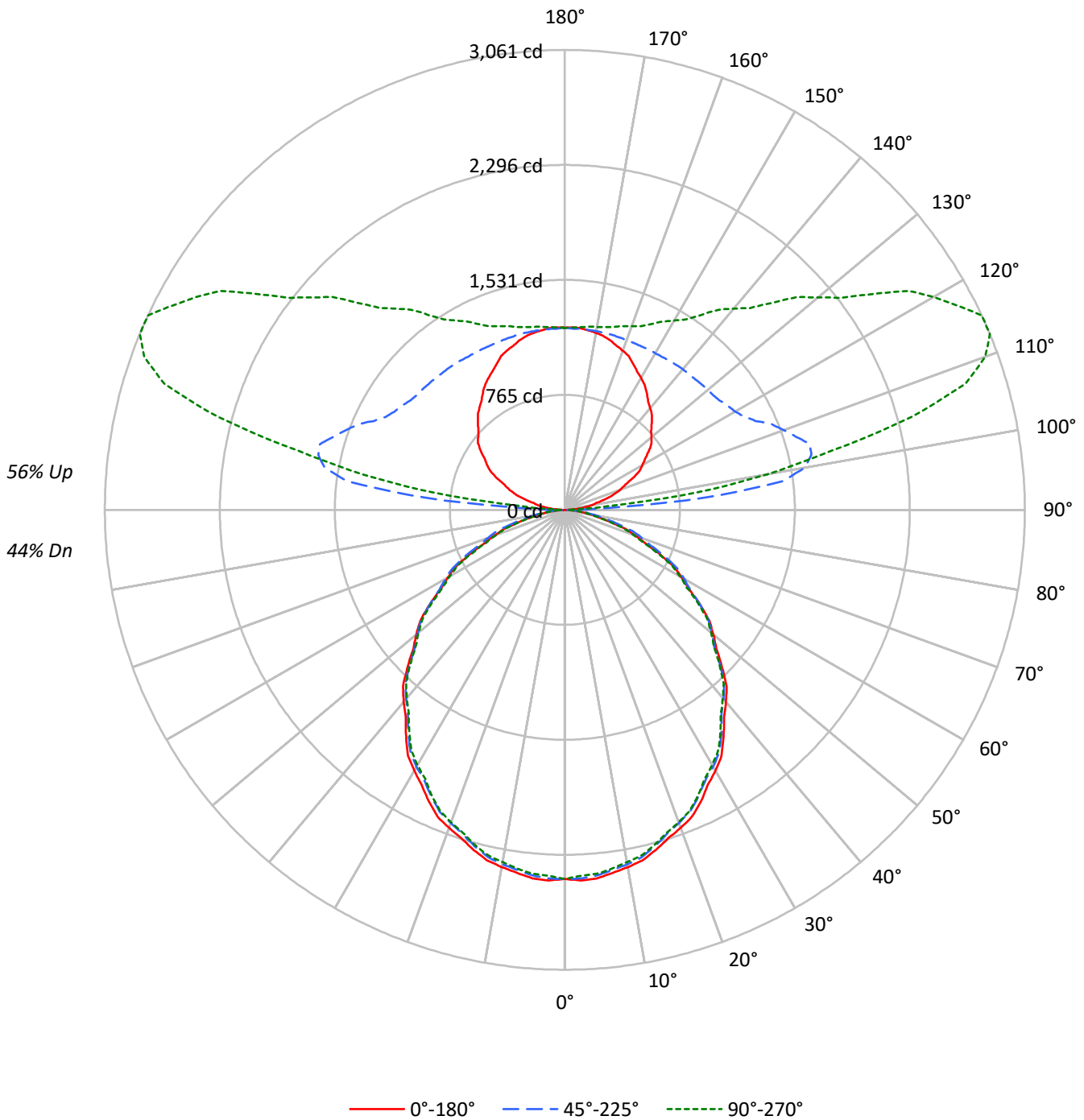
Lumens per Lamp: N/A
Luminaire Lumens: 14062.1 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 127.1
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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	44
1	97	92	89	85	88	85	82	79	70	68	66	57	56	54	45	44	43	38
2	88	81	75	70	80	74	69	65	62	58	55	50	48	45	40	38	37	32
3	80	71	64	58	73	65	59	54	55	50	46	45	41	38	35	33	31	27
4	73	63	55	49	67	58	51	46	48	43	39	40	36	33	32	29	27	23
5	67	56	48	42	62	52	45	39	43	38	34	36	32	29	29	26	23	20
6	62	50	42	36	57	46	39	34	39	34	30	32	28	25	26	23	21	18
7	57	45	37	32	52	42	35	30	35	30	26	29	25	22	24	21	18	16
8	53	41	33	28	49	38	31	26	32	27	23	27	23	20	22	19	16	14
9	50	37	30	25	45	35	28	24	30	24	21	25	21	18	20	17	15	13
10	46	34	27	22	42	32	25	21	27	22	19	23	19	16	19	16	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15105	15105	15105
5°	15203	15083	15016
10°	15081	14960	14878
15°	14922	14756	14701
20°	14743	14517	14488
25°	14537	14273	14229
30°	14230	14015	13923
35°	13826	13631	13550
40°	13394	13186	13134
45°	12874	12704	12648
50°	12340	12236	12154
55°	11764	11764	11578
60°	11046	11258	10860
65°	10108	10613	9856
70°	8911	9767	8677
75°	7610	8741	7405
80°	5901	7357	5979
85°	3818	5653	5039



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.3	1.6
10°-20°	652.9	4.6
20°-30°	968.4	6.9
30°-40°	1133.2	8.1
40°-50°	1128.1	8.0
50°-60°	974.2	6.9
60°-70°	701.2	5.0
70°-80°	367.7	2.6
80°-90°	93.7	0.7
90°-100°	563.1	4.0
100°-110°	1522.4	10.8
110°-120°	1600.6	11.4
120°-130°	1300.1	9.2
130°-140°	1019.8	7.3
140°-150°	782.7	5.6
150°-160°	562.9	4.0
160°-170°	343.9	2.4
170°-180°	115.9	0.8
0°-30°	1852.6	13.2
0°-40°	2985.7	21.2
0°-60°	5088.0	36.2
0°-90°	6250.7	44.5
90°-120°	3686.0	26.2
90°-150°	6788.7	48.3
90°-180°	7811.0	55.5
0°-180°	14062.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2456	2456	2456	2456	2456	
5°	2462	2435	2443	2436	2432	233
15°	2343	2314	2317	2313	2309	660
25°	2142	2106	2103	2090	2097	985
35°	1841	1816	1815	1798	1804	1151
45°	1480	1467	1460	1456	1454	1142
55°	1097	1095	1097	1082	1080	979
65°	694	716	729	700	677	688
75°	320	350	368	343	312	343
85°	54	71	80	76	71	71
90°	3	8	17	18	17	8
95°	87	307	936	485	288	91
105°	283	437	1689	2491	2389	298
115°	498	609	1401	2712	3061	492
125°	682	782	1262	2130	2503	608
135°	818	915	1228	1720	1947	632
145°	951	1022	1212	1472	1585	595
155°	1073	1115	1201	1321	1364	495
165°	1168	1180	1206	1253	1260	329
175°	1213	1212	1208	1223	1221	115
180°	1212	1212	1212	1212	1212	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2455.8	2455.8	2455.8	2455.8	2455.8
2.5°	2469.6	2449.3	2455.8	2450.3	2438.5
5°	2462.3	2434.8	2442.8	2436.2	2432.0
7.5°	2437.2	2411.8	2417.7	2410.7	2408.2
10°	2414.7	2389.3	2395.2	2386.4	2382.2
12.5°	2388.7	2361.6	2367.5	2358.8	2356.2
15°	2343.3	2313.6	2317.3	2312.9	2308.6
17.5°	2290.5	2260.4	2261.0	2254.1	2253.3
20°	2252.4	2220.7	2217.8	2209.2	2213.4
22.5°	2210.9	2177.4	2174.5	2162.5	2168.4
25°	2142.0	2106.1	2103.1	2090.3	2096.6
27.5°	2062.4	2026.9	2026.9	2008.9	2015.7
30°	2003.6	1969.7	1973.3	1951.8	1960.3
32.5°	1941.3	1910.8	1912.7	1891.3	1899.7
35°	1841.3	1815.9	1815.3	1798.2	1804.5
37.5°	1739.2	1716.7	1713.2	1703.3	1705.0
40°	1668.2	1649.2	1642.2	1635.7	1635.7
42.5°	1593.8	1576.4	1569.5	1564.7	1563.0
45°	1480.0	1467.3	1460.5	1456.1	1454.0
47.5°	1367.4	1355.6	1349.7	1346.6	1344.5
50°	1289.6	1281.1	1278.7	1272.2	1270.1
52.5°	1211.7	1206.6	1204.3	1196.0	1193.9
55°	1097.0	1094.9	1097.0	1081.8	1079.7
57.5°	977.6	980.9	987.9	967.5	962.4
60°	897.9	906.4	915.2	891.2	882.8
62.5°	816.6	830.1	842.5	815.0	803.2
65°	694.5	715.7	729.2	700.5	677.2
67.5°	576.8	603.1	619.2	588.4	562.1
70°	495.5	525.1	543.1	512.1	482.5
72.5°	424.5	457.5	472.1	442.9	413.3
75°	320.2	349.8	367.8	343.3	311.6
77.5°	227.2	255.1	270.0	248.7	222.4
80°	166.6	196.2	207.7	189.9	168.8
82.5°	118.1	142.7	150.6	139.9	125.5
85°	54.1	71.0	80.1	75.6	71.4
87.5°	14.4	27.2	36.3	36.6	38.0
90°	2.6	7.7	17.0	18.2	17.0
92.5°	37.0	135.0	266.3	115.6	83.7
95°	87.4	306.7	936.4	484.6	288.2
97.5°	140.3	351.8	1459.6	1207.9	887.1
100°	180.0	370.0	1622.4	1692.0	1368.1
102.5°	216.5	395.3	1679.8	2059.0	1816.7
105°	283.0	437.3	1688.9	2491.2	2389.2
107.5°	344.6	485.3	1615.1	2760.9	2794.8
110°	392.6	520.1	1549.3	2833.3	2977.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	435.3	554.7	1488.8	2818.8	3060.9
115°	498.2	609.1	1400.7	2711.5	3060.9
117.5°	559.7	663.8	1342.5	2547.4	2943.5
120°	597.3	699.3	1308.1	2429.7	2833.9
122.5°	632.8	732.8	1287.2	2303.5	2710.8
125°	682.1	781.5	1262.4	2130.3	2502.7
127.5°	727.5	825.1	1247.8	1989.0	2316.4
130°	752.5	853.2	1241.6	1901.7	2197.5
132.5°	778.6	878.3	1235.3	1822.9	2095.3
135°	817.7	914.6	1228.5	1720.1	1947.1
137.5°	857.1	948.6	1222.8	1636.7	1821.6
140°	884.2	969.7	1220.7	1583.1	1747.6
142.5°	910.3	990.6	1216.5	1534.6	1678.7
145°	950.7	1022.1	1211.6	1472.3	1584.6
147.5°	987.5	1050.8	1205.8	1415.9	1502.1
150°	1014.6	1070.7	1203.7	1385.3	1454.1
152.5°	1039.7	1088.6	1202.7	1356.8	1413.4
155°	1073.3	1115.4	1201.1	1320.8	1364.1
157.5°	1108.3	1137.6	1201.4	1295.7	1324.2
160°	1128.1	1152.3	1202.4	1279.8	1300.2
162.5°	1143.7	1163.9	1203.5	1267.2	1282.5
165°	1168.5	1180.0	1206.3	1253.4	1259.8
167.5°	1185.5	1193.4	1206.6	1241.6	1244.7
170°	1195.9	1199.7	1207.6	1236.3	1236.3
172.5°	1204.3	1205.0	1207.6	1230.1	1229.0
175°	1212.9	1211.6	1207.6	1223.2	1220.7
177.5°	1215.7	1212.7	1207.4	1217.8	1214.7
180°	1211.6	1211.6	1211.6	1211.6	1211.6

(END OF REPORT)