

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: P565095

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

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P565095
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, 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-PW1-125U-125D-940-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

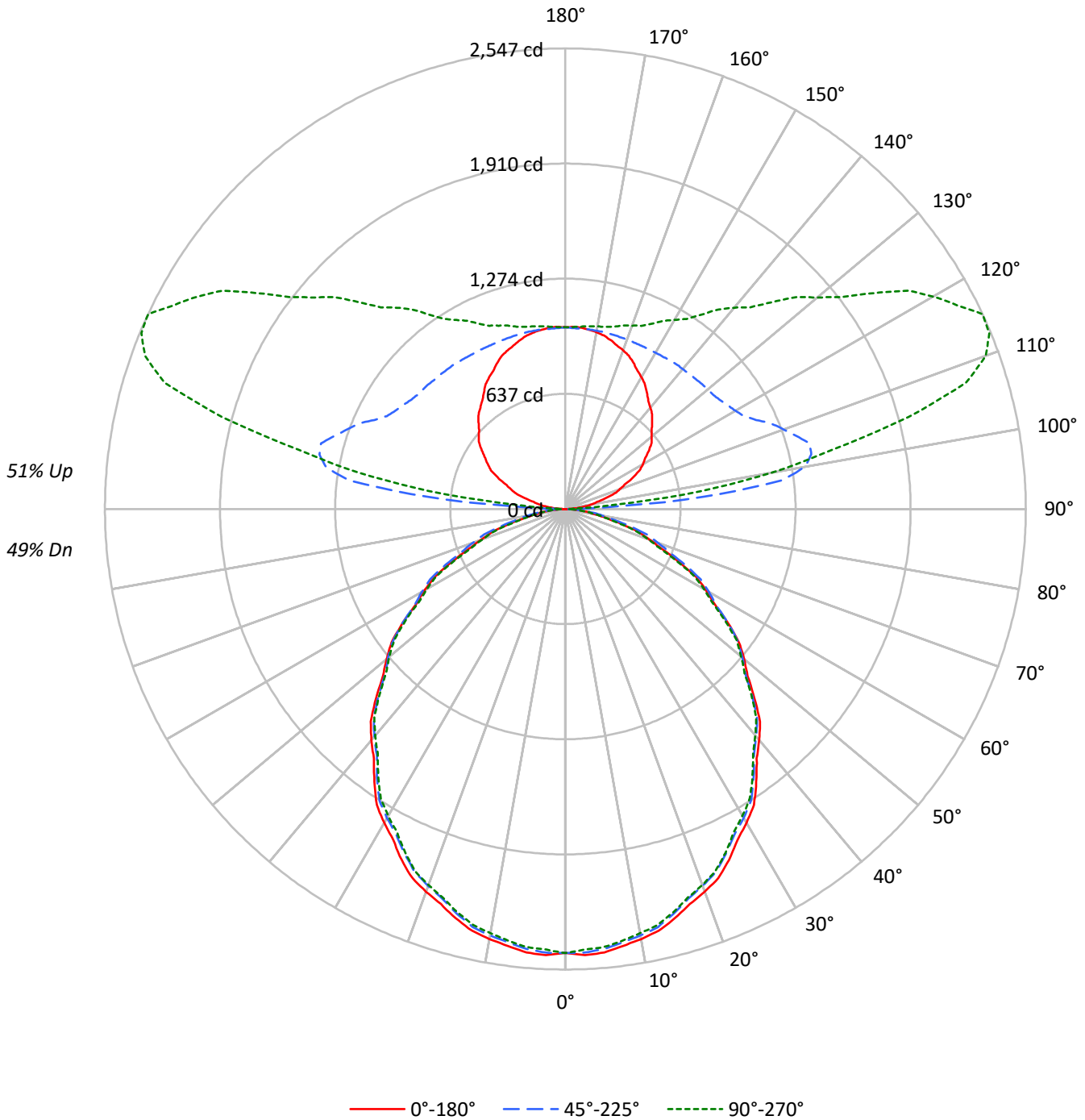
Lumens per Lamp: N/A
Luminaire Lumens: 12733.2 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 117.2
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	107	107	107	107	99	99	99	99	83	83	83	68	68	68	55	55	55	49
1	98	93	90	86	90	86	83	80	73	70	68	60	59	57	49	48	47	42
2	89	82	76	70	82	75	70	66	64	60	57	53	50	48	43	41	40	35
3	81	72	65	59	75	66	60	55	56	52	48	47	44	41	38	36	34	30
4	74	64	56	50	68	59	52	47	50	45	41	42	38	35	34	31	29	25
5	68	57	49	43	63	53	45	40	45	39	35	38	33	30	31	28	25	22
6	63	51	43	37	58	47	40	35	40	35	31	34	30	26	28	25	22	19
7	58	46	38	32	53	43	36	31	37	31	27	31	27	23	26	22	20	17
8	54	42	34	29	50	39	32	27	33	28	24	28	24	21	24	20	18	15
9	50	38	31	25	46	35	29	24	31	25	21	26	22	19	22	18	16	14
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15	13

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	1.8
10°-20°	652.9	5.1
20°-30°	968.4	7.6
30°-40°	1133.2	8.9
40°-50°	1128.1	8.9
50°-60°	974.2	7.7
60°-70°	701.2	5.5
70°-80°	367.7	2.9
80°-90°	93.5	0.7
90°-100°	469.8	3.7
100°-110°	1265.4	9.9
110°-120°	1328.0	10.4
120°-130°	1077.7	8.5
130°-140°	845.2	6.6
140°-150°	648.9	5.1
150°-160°	466.6	3.7
160°-170°	285.0	2.2
170°-180°	96.1	0.8
0°-30°	1852.6	14.5
0°-40°	2985.7	23.4
0°-60°	5088.0	40.0
0°-90°	6250.5	49.1
90°-120°	3063.3	24.1
90°-150°	5635.0	44.3
90°-180°	6483.0	50.9
0°-180°	12733.2	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	15	17	17	7
95°	72	256	770	394	272	75
105°	234	364	1400	2094	1965	246
115°	413	506	1165	2252	2547	407
125°	564	648	1046	1769	2081	504
135°	679	758	1017	1427	1616	524
145°	786	847	1004	1220	1310	493
155°	892	924	995	1094	1130	410
165°	967	978	999	1039	1044	273
175°	1006	1004	1000	1014	1012	96
180°	1004	1004	1004	1004	1004	

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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	36.0	36.3	37.9
90°	2.6	7.6	15.4	16.6	16.6
92.5°	31.2	110.3	218.0	104.9	72.9
95°	71.6	255.5	770.1	393.8	272.5
97.5°	114.4	292.5	1207.9	1009.1	760.9
100°	147.1	307.2	1347.0	1409.4	1169.2
102.5°	178.8	327.9	1393.1	1709.2	1512.1
105°	234.1	364.2	1399.5	2093.7	1964.9
107.5°	286.3	402.4	1339.9	2291.4	2324.6
110°	321.1	431.2	1285.6	2352.7	2474.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	357.9	460.0	1233.4	2339.1	2538.5
115°	413.2	505.8	1165.4	2251.8	2547.0
117.5°	463.6	550.4	1112.7	2112.3	2441.0
120°	496.3	580.2	1086.1	2012.2	2350.0
122.5°	525.0	607.8	1066.6	1909.9	2246.6
125°	564.1	648.0	1046.4	1768.6	2081.3
127.5°	601.8	684.3	1033.6	1644.0	1923.2
130°	624.3	706.8	1028.5	1572.6	1817.8
132.5°	646.8	728.3	1023.4	1509.8	1734.9
135°	679.3	758.1	1017.0	1426.8	1615.7
137.5°	710.2	785.8	1013.7	1356.5	1511.6
140°	731.7	804.3	1010.6	1313.1	1453.2
142.5°	754.2	821.8	1008.6	1272.7	1390.8
145°	785.5	846.7	1004.2	1219.9	1309.9
147.5°	819.2	872.5	999.9	1175.4	1246.2
150°	841.7	888.0	997.8	1147.5	1206.3
152.5°	862.2	902.5	996.8	1124.8	1172.6
155°	891.6	924.2	995.2	1094.5	1129.6
157.5°	917.5	942.7	995.5	1073.3	1096.8
160°	933.8	955.1	996.5	1060.9	1078.4
162.5°	948.2	965.4	997.6	1050.5	1063.0
165°	967.1	978.4	999.1	1038.9	1043.9
167.5°	982.5	989.0	1000.4	1029.8	1031.8
170°	992.7	995.2	1000.4	1024.7	1024.7
172.5°	998.8	999.3	1001.4	1019.6	1019.6
175°	1005.5	1004.2	1000.4	1014.4	1011.9
177.5°	1008.3	1006.3	1001.1	1009.3	1007.3
180°	1004.2	1004.2	1004.2	1004.2	1004.2

(END OF REPORT)