

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: P565075

Luminaire Tested: **SQ4-PW1-125U-125D-830-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P565075
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-830-1D-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: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

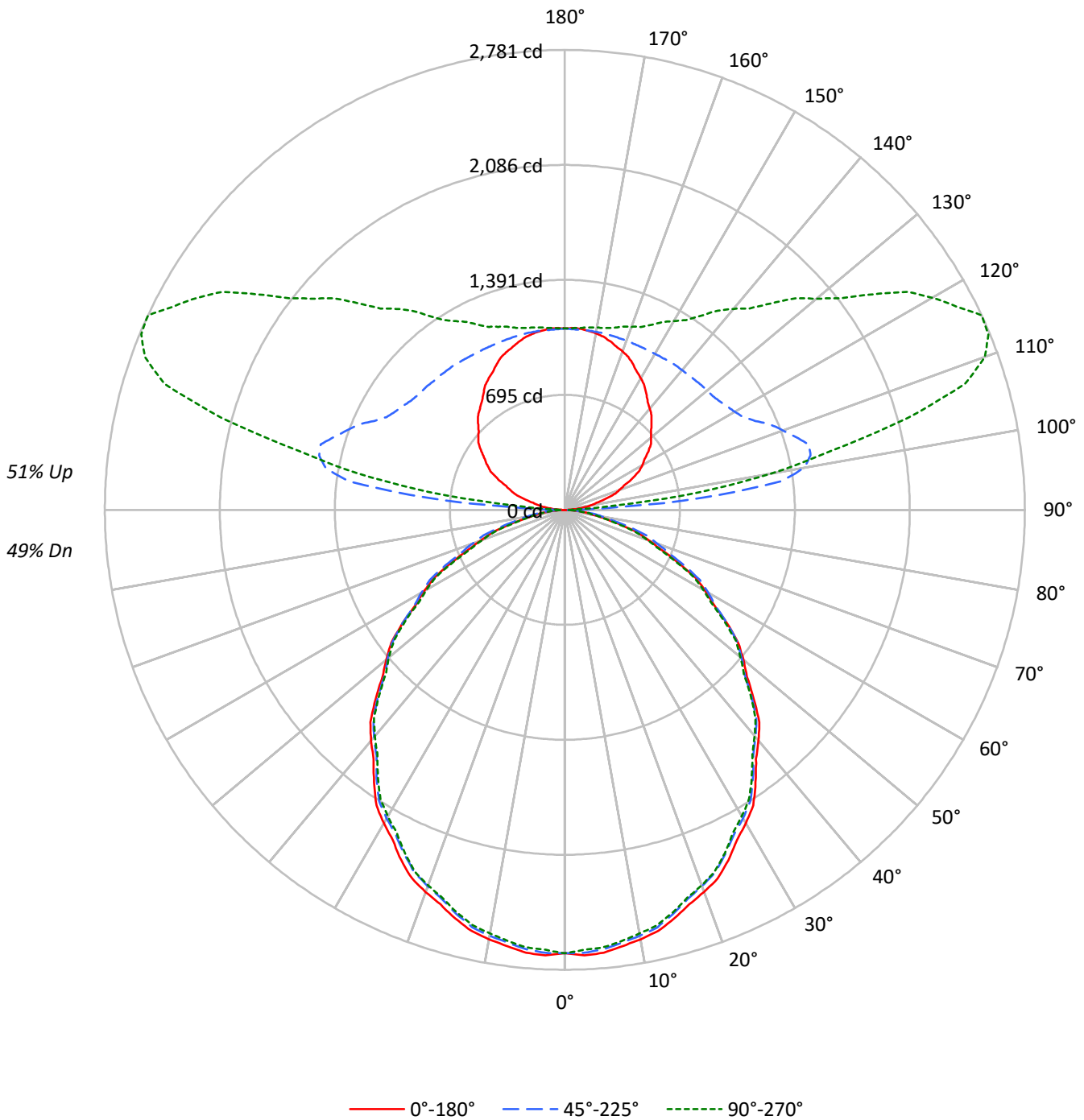
Lumens per Lamp: N/A
Luminaire Lumens: 13902.9 lumens
Efficiency: N/A
Efficacy: 118.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

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°	16493	16493	16493
5°	16600	16468	16395
10°	16467	16334	16245
15°	16292	16112	16051
20°	16097	15850	15819
25°	15873	15584	15536
30°	15537	15302	15202
35°	15096	14883	14794
40°	14625	14397	14340
45°	14056	13871	13810
50°	13473	13360	13270
55°	12845	12845	12642
60°	12060	12293	11858
65°	11036	11586	10761
70°	9729	10664	9474
75°	8308	9544	8085
80°	6443	8033	6528
85°	4171	6168	5505



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.5	1.8
10°-20°	712.9	5.1
20°-30°	1057.4	7.6
30°-40°	1237.3	8.9
40°-50°	1231.7	8.9
50°-60°	1063.7	7.7
60°-70°	765.6	5.5
70°-80°	401.5	2.9
80°-90°	102.1	0.7
90°-100°	512.9	3.7
100°-110°	1381.7	9.9
110°-120°	1450.0	10.4
120°-130°	1176.7	8.5
130°-140°	922.8	6.6
140°-150°	708.5	5.1
150°-160°	509.4	3.7
160°-170°	311.2	2.2
170°-180°	105.0	0.8
0°-30°	2022.8	14.5
0°-40°	3260.0	23.4
0°-60°	5555.4	40.0
0°-90°	6824.7	49.1
90°-120°	3344.6	24.1
90°-150°	6152.6	44.3
90°-180°	7078.0	50.9
0°-180°	13902.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2681	2681	2681	2681	2681	
5°	2688	2658	2667	2660	2655	255
15°	2558	2526	2530	2525	2521	721
25°	2339	2300	2296	2282	2289	1075
35°	2010	1983	1982	1963	1970	1257
45°	1616	1602	1595	1590	1588	1247
55°	1198	1195	1198	1181	1179	1069
65°	758	781	796	765	739	751
75°	350	382	402	375	340	375
85°	59	78	87	83	78	78
90°	3	8	17	18	18	8
95°	78	279	841	430	298	82
105°	256	398	1528	2286	2145	269
115°	451	552	1272	2459	2781	444
125°	616	708	1142	1931	2272	550
135°	742	828	1110	1558	1764	572
145°	858	924	1096	1332	1430	538
155°	974	1009	1087	1195	1233	448
165°	1056	1068	1091	1134	1140	298
175°	1098	1096	1092	1108	1105	104
180°	1096	1096	1096	1096	1096	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2681.4	2681.4	2681.4	2681.4	2681.4
2.5°	2696.5	2674.3	2681.4	2675.4	2662.5
5°	2688.5	2658.4	2667.2	2660.0	2655.4
7.5°	2661.1	2633.3	2639.8	2632.2	2629.4
10°	2636.5	2608.8	2615.2	2605.7	2601.0
12.5°	2608.1	2578.6	2585.0	2575.5	2572.7
15°	2558.5	2526.2	2530.2	2525.3	2520.7
17.5°	2500.9	2468.1	2468.7	2461.2	2460.2
20°	2459.3	2424.6	2421.5	2412.2	2416.8
22.5°	2413.9	2377.4	2374.3	2361.2	2367.6
25°	2338.8	2299.5	2296.3	2282.3	2289.2
27.5°	2251.9	2213.1	2213.1	2193.5	2200.8
30°	2187.6	2150.7	2154.5	2131.1	2140.4
32.5°	2119.6	2086.3	2088.4	2065.0	2074.2
35°	2010.4	1982.7	1982.1	1963.3	1970.3
37.5°	1898.9	1874.4	1870.6	1859.8	1861.6
40°	1821.4	1800.7	1793.1	1786.0	1786.0
42.5°	1740.2	1721.2	1713.7	1708.5	1706.6
45°	1615.9	1602.0	1594.6	1589.9	1587.6
47.5°	1493.1	1480.1	1473.7	1470.3	1468.0
50°	1408.0	1398.8	1396.2	1389.1	1386.8
52.5°	1323.0	1317.4	1314.9	1305.9	1303.6
55°	1197.8	1195.4	1197.8	1181.2	1178.9
57.5°	1067.3	1071.0	1078.7	1056.4	1050.8
60°	980.4	989.7	999.3	973.1	963.9
62.5°	891.6	906.4	919.9	889.9	876.9
65°	758.3	781.4	796.1	764.9	739.4
67.5°	629.8	658.5	676.1	642.4	613.8
70°	541.0	573.3	593.0	559.2	526.8
72.5°	463.5	499.5	515.5	483.6	451.2
75°	349.6	382.0	401.6	374.8	340.2
77.5°	248.1	278.5	294.8	271.5	242.9
80°	181.9	214.2	226.8	207.4	184.3
82.5°	129.0	155.8	164.4	152.7	137.0
85°	59.1	77.5	87.4	82.6	78.0
87.5°	15.7	29.7	39.3	39.6	41.4
90°	2.8	8.3	16.8	18.2	18.2
92.5°	34.1	120.4	238.0	114.6	79.6
95°	78.2	279.0	840.8	430.0	297.5
97.5°	124.9	319.3	1318.8	1101.7	830.8
100°	160.6	335.4	1470.8	1538.8	1276.6
102.5°	195.3	358.1	1521.1	1866.2	1651.0
105°	255.6	397.6	1528.0	2286.1	2145.4
107.5°	312.6	439.3	1463.0	2501.9	2538.2
110°	350.6	470.8	1403.7	2568.8	2701.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	390.8	502.3	1346.7	2554.0	2771.7
115°	451.2	552.2	1272.4	2458.6	2780.9
117.5°	506.2	601.0	1214.9	2306.4	2665.3
120°	541.9	633.4	1185.8	2197.1	2565.8
122.5°	573.2	663.6	1164.6	2085.3	2453.0
125°	616.0	707.5	1142.5	1931.1	2272.5
127.5°	657.0	747.2	1128.6	1795.1	2099.9
130°	681.6	771.8	1123.0	1717.1	1984.8
132.5°	706.2	795.2	1117.4	1648.4	1894.3
135°	741.7	827.7	1110.4	1557.9	1764.1
137.5°	775.5	858.0	1106.8	1481.1	1650.4
140°	798.9	878.2	1103.4	1433.8	1586.7
142.5°	823.5	897.3	1101.2	1389.6	1518.5
145°	857.6	924.5	1096.5	1331.9	1430.3
147.5°	894.5	952.7	1091.7	1283.4	1360.7
150°	919.1	969.6	1089.5	1252.9	1317.1
152.5°	941.4	985.4	1088.3	1228.1	1280.3
155°	973.5	1009.0	1086.7	1195.1	1233.3
157.5°	1001.8	1029.3	1087.0	1171.9	1197.6
160°	1019.6	1042.8	1088.1	1158.3	1177.5
162.5°	1035.3	1054.1	1089.2	1147.0	1160.7
165°	1055.9	1068.2	1090.9	1134.3	1139.8
167.5°	1072.7	1079.8	1092.3	1124.4	1126.6
170°	1083.9	1086.6	1092.3	1118.8	1118.8
172.5°	1090.6	1091.1	1093.4	1113.2	1113.2
175°	1097.8	1096.5	1092.3	1107.6	1104.8
177.5°	1100.9	1098.7	1093.1	1102.0	1099.8
180°	1096.5	1096.5	1096.5	1096.5	1096.5

(END OF REPORT)