

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: P564787

Luminaire Tested: **SQ4-PW1-075U-125D-830-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564787
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-PW1-075U-125D-830-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

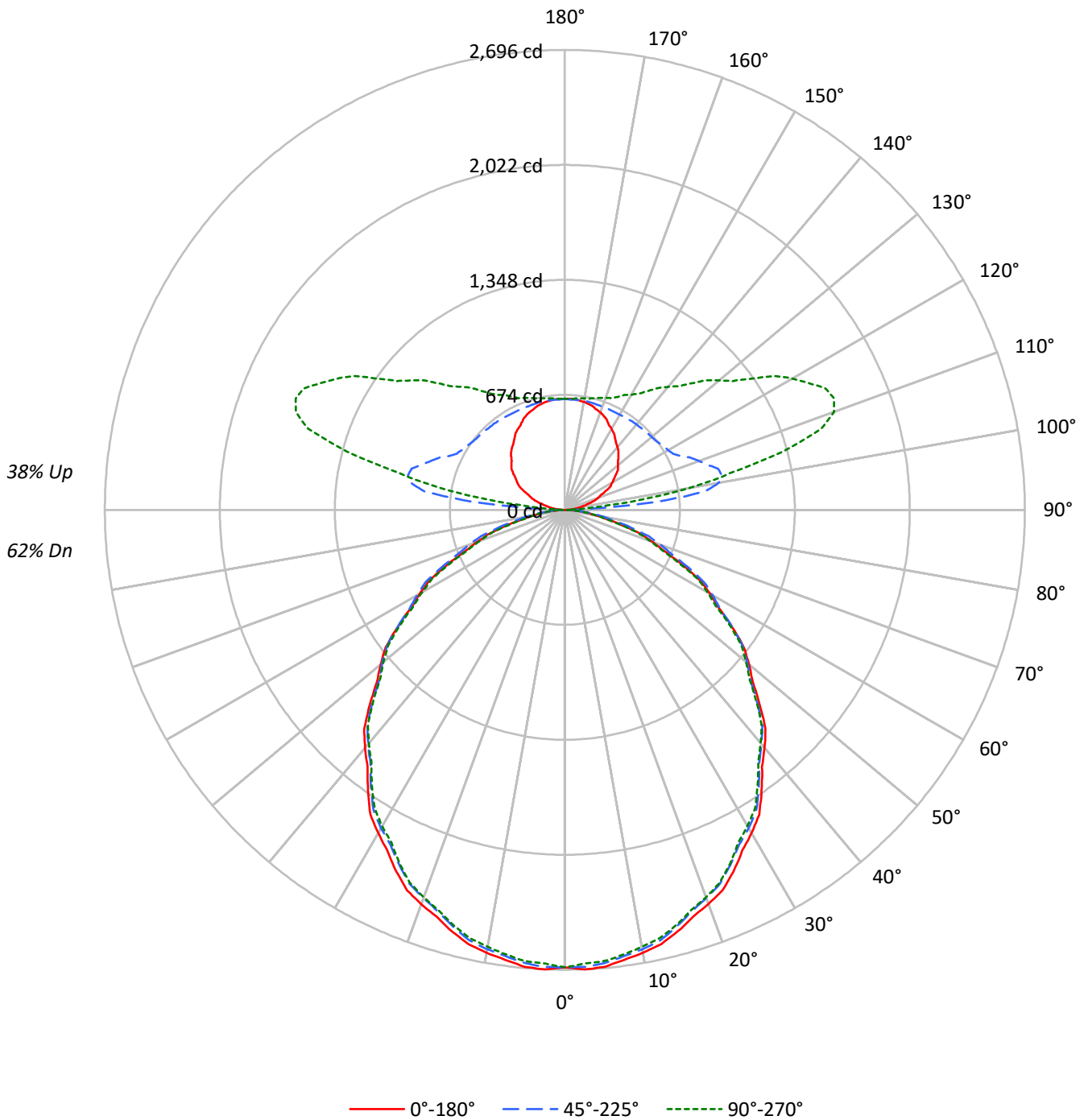
Lumens per Lamp: N/A
Luminaire Lumens: 11062.5 lumens
Efficiency: N/A
Efficacy: 113.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 97.3
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	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67	62
1	101	96	92	89	94	90	87	84	79	77	74	69	67	65	59	58	57	52
2	92	84	78	73	86	79	74	69	69	65	62	61	57	55	52	50	48	44
3	84	74	67	61	78	70	63	58	61	56	52	54	50	46	46	43	41	37
4	77	66	58	51	71	62	55	49	55	49	44	48	43	40	42	38	35	32
5	70	59	50	44	66	55	48	42	49	43	38	43	38	35	37	34	31	28
6	65	53	44	38	61	50	42	37	44	38	34	39	34	30	34	30	27	24
7	60	48	39	34	56	45	38	32	40	34	30	35	31	27	31	27	24	22
8	56	43	35	30	52	41	34	29	37	31	26	32	28	24	29	25	22	19
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	26	22	20	18
10	49	36	29	24	46	35	28	23	31	25	21	28	23	20	24	21	18	16

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	2.3
10°-20°	712.9	6.4
20°-30°	1057.4	9.6
30°-40°	1237.3	11.2
40°-50°	1231.7	11.1
50°-60°	1063.7	9.6
60°-70°	765.6	6.9
70°-80°	401.5	3.6
80°-90°	101.2	0.9
90°-100°	306.9	2.8
100°-110°	844.3	7.6
110°-120°	871.5	7.9
120°-130°	698.2	6.3
130°-140°	548.4	5.0
140°-150°	420.3	3.8
150°-160°	302.2	2.7
160°-170°	184.8	1.7
170°-180°	62.3	0.6
0°-30°	2022.8	18.3
0°-40°	3260.0	29.5
0°-60°	5555.4	50.2
0°-90°	6823.8	61.7
90°-120°	2022.6	18.3
90°-150°	3689.5	33.4
90°-180°	4239.0	38.3
0°-180°	11062.5	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°	1	5	10	12	12	5
95°	46	168	543	232	148	48
105°	151	232	930	1417	1322	159
115°	267	325	746	1486	1686	264
125°	368	420	677	1145	1341	328
135°	444	493	658	926	1048	343
145°	514	549	648	789	850	322
155°	581	600	644	709	730	267
165°	628	637	646	673	677	177
175°	651	652	648	656	655	62
180°	651	651	651	651	651	

TEST NUMBER: P564787

CATALOG NUMBER: SQ4-PW1-075U-125D-830-1D-UNV-STD-W-6

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°	15.4	29.1	37.8	38.4	40.3
90°	1.4	5.4	9.7	12.5	12.5
92.5°	19.1	81.6	141.5	54.3	44.6
95°	45.7	167.5	542.7	232.0	148.1
97.5°	74.5	185.7	828.1	638.1	450.2
100°	95.5	197.0	917.8	926.4	755.9
102.5°	115.5	210.5	941.1	1149.3	992.9
105°	150.9	232.1	930.3	1416.8	1322.1
107.5°	184.7	258.9	877.4	1547.8	1576.0
110°	209.0	276.7	837.5	1580.4	1677.8



TEST NUMBER: P564787

CATALOG NUMBER: SQ4-PW1-075U-125D-830-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	231.2	296.7	797.7	1559.4	1707.7
115°	267.2	325.4	746.2	1485.8	1686.1
117.5°	301.5	355.1	713.5	1382.6	1609.2
120°	322.6	374.0	699.1	1305.2	1539.4
122.5°	341.4	392.8	689.1	1237.4	1459.7
125°	368.2	419.7	677.0	1145.2	1341.4
127.5°	393.7	442.7	668.9	1068.2	1240.4
130°	407.0	457.1	664.5	1022.5	1179.5
132.5°	422.5	472.6	661.2	982.2	1124.1
135°	444.4	493.1	657.6	926.1	1048.0
137.5°	464.9	510.1	654.5	880.8	981.2
140°	480.4	522.3	653.4	850.7	941.4
142.5°	493.7	532.4	651.2	823.8	901.5
145°	513.6	548.8	647.9	789.1	850.0
147.5°	534.9	565.2	646.2	758.4	807.1
150°	548.2	575.3	645.1	741.5	779.4
152.5°	560.4	585.3	644.0	726.9	758.4
155°	581.4	600.4	643.7	709.3	729.6
157.5°	596.7	612.1	643.7	694.7	708.8
160°	607.7	619.9	643.7	686.9	697.7
162.5°	616.6	626.6	644.8	680.2	688.9
165°	628.5	636.6	646.5	672.9	677.0
167.5°	636.8	643.0	647.9	666.7	667.8
170°	642.3	646.4	647.9	664.5	664.5
172.5°	646.8	648.7	647.9	661.1	660.1
175°	650.6	652.0	647.9	656.2	654.8
177.5°	651.8	651.8	647.3	653.9	651.8
180°	650.6	650.6	650.6	650.6	650.6

(END OF REPORT)