

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: P562771

Luminaire Tested: **SQ4-PC3-075U-125D-830-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562771  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G2-2106-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PC3-075U-125D-830-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

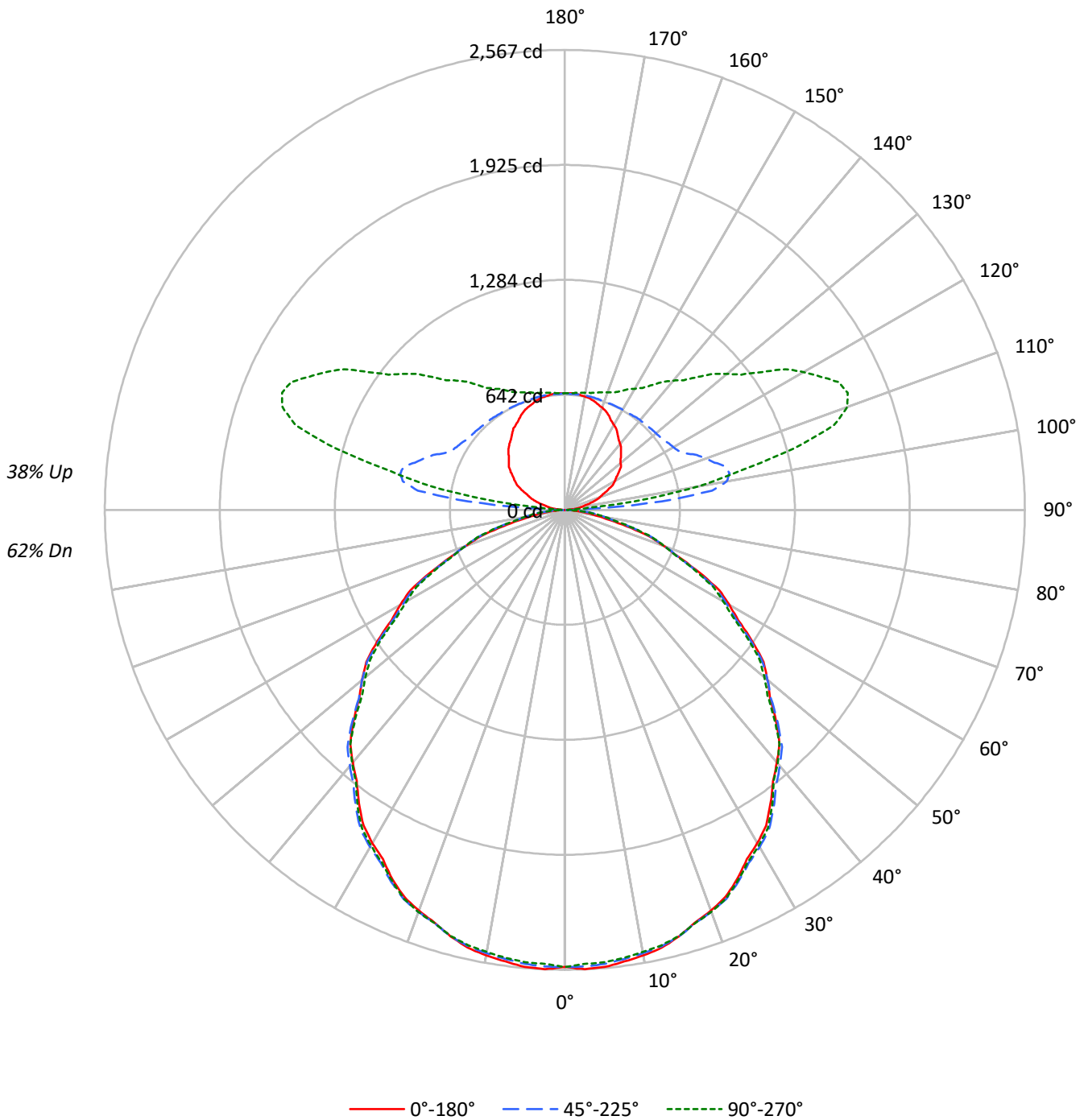
Lumens per Lamp: N/A  
Luminaire Lumens: 11203.7 lumens  
Efficiency: N/A  
Efficacy: 115.1 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Direct

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	60	58	57	53
2	92	84	78	73	86	79	73	69	69	65	62	61	57	55	52	50	48	44
3	84	74	66	60	78	70	63	57	61	56	52	54	50	46	46	43	41	37
4	76	65	57	51	71	62	54	49	54	49	44	48	43	40	42	38	35	32
5	70	58	50	44	66	55	47	42	49	43	38	43	38	34	37	34	31	28
6	65	52	44	38	60	49	42	36	44	38	33	39	34	30	34	30	27	24
7	60	47	39	33	56	45	37	32	40	34	29	35	30	27	31	27	24	21
8	56	43	35	30	52	41	33	28	36	30	26	32	27	24	28	24	21	19
9	52	39	32	26	48	37	30	25	33	27	23	30	25	21	26	22	19	17
10	48	36	29	24	45	34	27	23	31	25	21	27	23	19	24	20	17	16

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	15693	15693	15693
5°	15812	15709	15651
10°	15773	15699	15655
15°	15690	15690	15676
20°	15587	15633	15633
25°	15440	15552	15504
30°	15252	15436	15369
35°	15025	15256	15149
40°	14776	14985	14833
45°	14508	14611	14385
50°	14129	14129	13903
55°	13680	13503	13300
60°	13020	12758	12555
65°	12035	11793	11690
70°	10537	10621	10578
75°	8477	9375	9432
80°	6025	7948	8033
85°	3670	6669	6669



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	241.5	2.2
10°-20°	692.9	6.2
20°-30°	1049.4	9.4
30°-40°	1258.0	11.2
40°-50°	1282.8	11.4
50°-60°	1119.8	10.0
60°-70°	801.7	7.2
70°-80°	412.9	3.7
80°-90°	106.1	0.9
90°-100°	306.9	2.7
100°-110°	844.3	7.5
110°-120°	871.5	7.8
120°-130°	698.2	6.2
130°-140°	548.4	4.9
140°-150°	420.3	3.8
150°-160°	302.2	2.7
160°-170°	184.8	1.6
170°-180°	62.3	0.6
0°-30°	1983.8	17.7
0°-40°	3241.8	28.9
0°-60°	5644.4	50.4
0°-90°	6965.0	62.2
90°-120°	2022.6	18.1
90°-150°	3689.5	32.9
90°-180°	4239.0	37.8
0°-180°	11203.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2551	2551	2551	2551	2551	
5°	2561	2536	2544	2537	2535	243
15°	2464	2443	2464	2464	2462	695
25°	2275	2259	2292	2284	2284	1047
35°	2001	1996	2032	2018	2018	1251
45°	1668	1663	1680	1658	1654	1284
55°	1276	1260	1259	1240	1240	1137
65°	827	808	810	803	803	818
75°	357	373	394	397	397	385
85°	52	80	94	97	94	71
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	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2551.4	2551.4	2551.4	2551.4	2551.4
2.5°	2566.6	2544.4	2551.4	2545.6	2536.3
5°	2560.9	2535.5	2544.3	2537.2	2534.9
7.5°	2542.5	2517.0	2528.8	2524.0	2521.7
10°	2525.4	2500.0	2513.6	2508.9	2506.5
12.5°	2502.8	2479.2	2494.7	2490.0	2489.5
15°	2464.0	2443.2	2464.0	2464.0	2461.7
17.5°	2415.4	2396.4	2418.7	2420.0	2418.7
20°	2381.3	2360.5	2388.4	2386.1	2388.4
22.5°	2339.8	2322.7	2352.5	2346.4	2348.7
25°	2275.0	2258.9	2291.6	2284.5	2284.5
27.5°	2198.5	2186.9	2222.6	2215.0	2215.0
30°	2147.5	2135.9	2173.4	2164.0	2164.0
32.5°	2090.8	2082.9	2118.6	2107.3	2107.3
35°	2001.0	1996.4	2031.7	2017.5	2017.5
37.5°	1908.4	1904.2	1936.3	1919.1	1913.6
40°	1840.3	1838.0	1866.3	1847.4	1847.4
42.5°	1772.3	1770.0	1794.5	1771.8	1771.8
45°	1667.9	1663.3	1679.7	1658.3	1653.7
47.5°	1554.0	1549.4	1559.7	1536.5	1534.2
50°	1476.5	1471.9	1476.5	1455.2	1452.9
52.5°	1397.1	1388.8	1389.6	1368.3	1367.9
55°	1275.7	1259.5	1259.2	1240.3	1240.3
57.5°	1147.2	1125.9	1127.8	1111.7	1109.4
60°	1058.4	1035.3	1037.1	1022.9	1020.6
62.5°	971.4	944.6	950.2	934.1	933.6
65°	826.9	808.4	810.3	803.2	803.2
67.5°	687.9	670.8	683.2	677.5	677.1
70°	585.9	574.3	590.6	590.6	588.2
72.5°	491.4	490.9	511.2	511.3	512.6
75°	356.7	372.9	394.5	396.9	396.9
77.5°	238.1	266.8	290.6	291.5	291.1
80°	170.1	202.4	224.4	229.1	226.8
82.5°	115.3	149.5	167.7	172.4	170.1
85°	52.0	79.7	94.5	96.8	94.5
87.5°	15.4	32.8	39.7	40.2	36.5
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

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**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)