

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: P563076

Luminaire Tested: **SQ4-PC3-125U-125D-935-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563076  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, 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-PC3-125U-125D-935-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

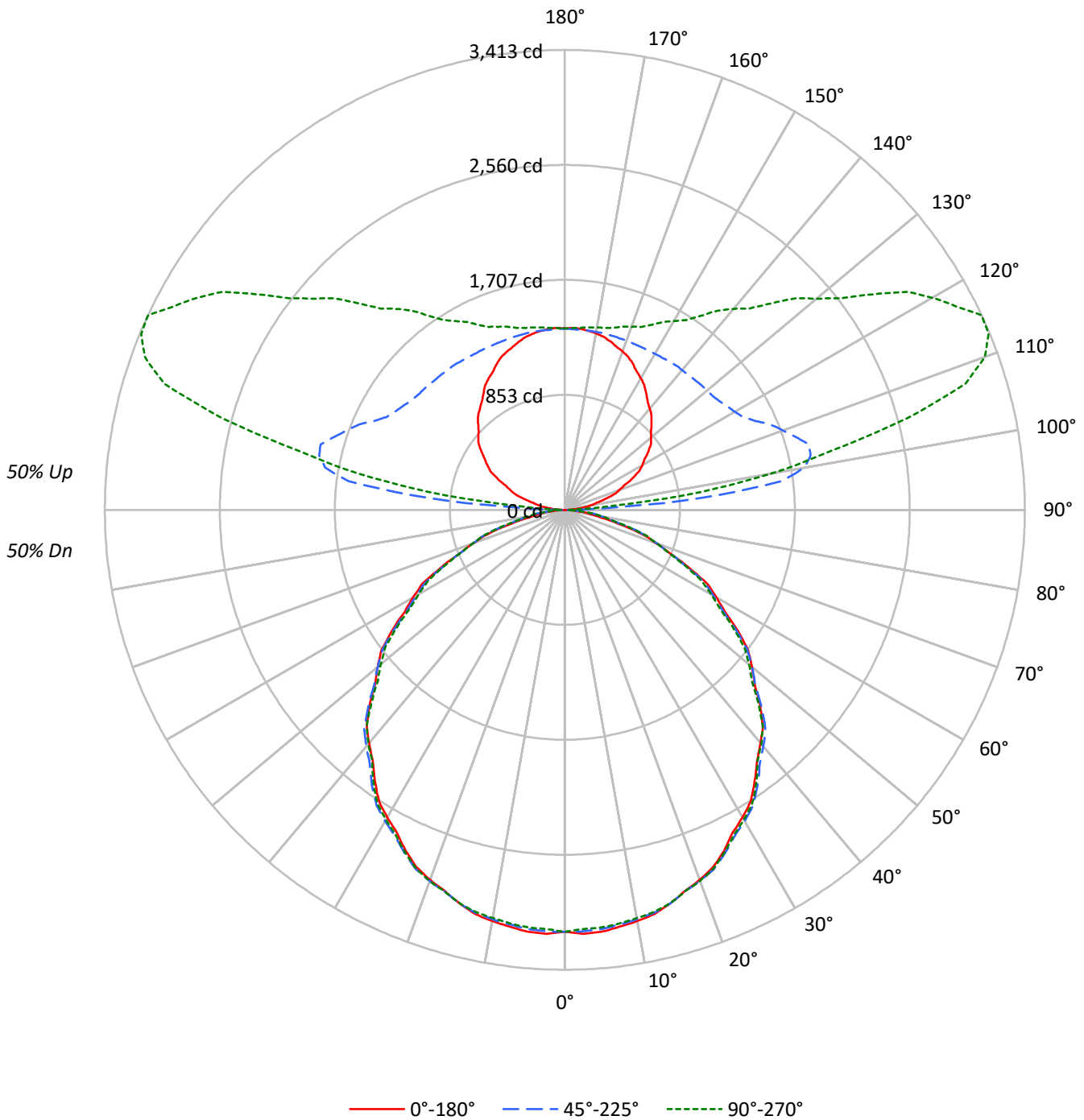
Lumens per Lamp: N/A  
Luminaire Lumens: 17237.6 lumens  
Efficiency: N/A  
Efficacy: 112.9 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 152.7  
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	69	69	69	56	56	56	50
1	98	93	90	86	90	86	83	80	73	71	68	61	59	57	49	48	47	42
2	89	82	75	70	82	75	70	66	64	60	57	53	50	48	43	42	40	35
3	81	72	64	59	75	66	60	55	56	52	48	47	44	41	38	36	34	30
4	74	63	56	49	68	59	52	46	50	45	40	42	38	35	34	31	29	25
5	68	56	48	42	63	52	45	40	45	39	35	38	33	30	31	28	25	22
6	63	51	42	37	58	47	40	35	40	35	30	34	30	26	28	25	22	19
7	58	46	38	32	53	42	35	30	36	31	27	31	26	23	26	22	20	17
8	54	41	34	28	49	39	32	27	33	28	24	28	24	21	23	20	18	15
9	50	38	30	25	46	35	28	24	30	25	21	26	22	19	22	18	16	14
10	47	35	27	23	43	32	26	21	28	23	19	24	20	17	20	17	14	12

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

	0°	45°	90°
0°	14446	14446	14446
5°	14555	14461	14408
10°	14520	14452	14411
15°	14444	14444	14430
20°	14348	14391	14391
25°	14213	14316	14272
30°	14040	14210	14148
35°	13831	14043	13945
40°	13602	13795	13655
45°	13355	13450	13242
50°	13006	13006	12798
55°	12593	12430	12243
60°	11985	11744	11557
65°	11078	10857	10762
70°	9699	9777	9738
75°	7803	8630	8682
80°	5547	7319	7396
85°	3377	6140	6140



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	296.4	1.7
10°-20°	850.5	4.9
20°-30°	1288.0	7.5
30°-40°	1544.1	9.0
40°-50°	1574.5	9.1
50°-60°	1374.4	8.0
60°-70°	984.0	5.7
70°-80°	506.8	2.9
80°-90°	131.3	0.8
90°-100°	629.6	3.7
100°-110°	1695.9	9.8
110°-120°	1779.8	10.3
120°-130°	1444.2	8.4
130°-140°	1132.7	6.6
140°-150°	869.6	5.0
150°-160°	625.2	3.6
160°-170°	382.0	2.2
170°-180°	128.8	0.7
0°-30°	2434.8	14.1
0°-40°	3979.0	23.1
0°-60°	6927.8	40.2
0°-90°	8549.9	49.6
90°-120°	4105.2	23.8
90°-150°	7551.7	43.8
90°-180°	8688.0	50.4
0°-180°	17237.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3132	3132	3132	3132	3132	
5°	3143	3112	3123	3114	3111	298
15°	3024	2999	3024	3024	3021	853
25°	2792	2772	2813	2804	2804	1285
35°	2456	2450	2494	2476	2476	1536
45°	2047	2042	2062	2035	2030	1576
55°	1566	1546	1546	1522	1522	1396
65°	1015	992	995	986	986	1004
75°	438	458	484	487	487	473
85°	64	98	116	119	116	87
90°	3	10	21	22	22	9
95°	96	342	1032	528	365	100
105°	314	488	1876	2806	2633	330
115°	554	678	1562	3018	3413	545
125°	756	868	1402	2370	2789	675
135°	910	1016	1363	1912	2165	703
145°	1053	1135	1346	1635	1756	660
155°	1195	1238	1334	1467	1514	550
165°	1296	1311	1339	1392	1399	365
175°	1348	1346	1341	1359	1356	128
180°	1346	1346	1346	1346	1346	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3131.6	3131.6	3131.6	3131.6	3131.6
2.5°	3150.2	3122.9	3131.6	3124.4	3113.0
5°	3143.2	3112.0	3122.9	3114.1	3111.3
7.5°	3120.6	3089.4	3103.8	3097.9	3095.1
10°	3099.7	3068.5	3085.2	3079.3	3076.5
12.5°	3071.9	3043.0	3062.0	3056.2	3055.6
15°	3024.3	2998.8	3024.3	3024.3	3021.4
17.5°	2964.6	2941.3	2968.6	2970.3	2968.6
20°	2922.8	2897.3	2931.5	2928.7	2931.5
22.5°	2871.8	2850.8	2887.5	2880.0	2882.8
25°	2792.3	2772.5	2812.6	2803.9	2803.9
27.5°	2698.4	2684.2	2728.0	2718.7	2718.7
30°	2635.8	2621.6	2667.7	2656.1	2656.1
32.5°	2566.2	2556.5	2600.4	2586.5	2586.5
35°	2456.0	2450.3	2493.7	2476.3	2476.3
37.5°	2342.3	2337.2	2376.5	2355.5	2348.7
40°	2258.8	2256.0	2290.7	2267.5	2267.5
42.5°	2175.3	2172.5	2202.6	2174.7	2174.7
45°	2047.1	2041.5	2061.6	2035.4	2029.7
47.5°	1907.4	1901.7	1914.3	1885.9	1883.0
50°	1812.3	1806.6	1812.3	1786.1	1783.3
52.5°	1714.8	1704.6	1705.6	1679.5	1678.9
55°	1565.8	1546.0	1545.5	1522.3	1522.3
57.5°	1408.1	1382.0	1384.3	1364.5	1361.7
60°	1299.0	1270.7	1272.9	1255.5	1252.6
62.5°	1192.3	1159.4	1166.2	1146.5	1145.9
65°	1014.9	992.2	994.6	985.9	985.9
67.5°	844.4	823.4	838.6	831.6	831.0
70°	719.1	704.9	724.9	724.8	722.0
72.5°	603.1	602.6	627.5	627.5	629.2
75°	437.8	457.7	484.2	487.1	487.1
77.5°	292.3	327.4	356.7	357.8	357.2
80°	208.8	248.5	275.5	281.2	278.4
82.5°	141.5	183.5	205.9	211.6	208.8
85°	63.8	97.8	116.0	118.8	116.0
87.5°	19.2	41.0	50.5	50.7	46.2
90°	3.4	10.1	20.6	22.3	22.3
92.5°	41.8	147.8	292.1	140.6	97.7
95°	96.0	342.4	1032.0	527.8	365.2
97.5°	153.3	392.0	1618.7	1352.3	1019.7
100°	197.2	411.7	1805.2	1888.8	1566.9
102.5°	239.7	439.5	1866.9	2290.6	2026.4
105°	313.7	488.1	1875.5	2805.9	2633.3
107.5°	383.7	539.2	1795.6	3070.7	3115.3
110°	430.3	577.8	1722.9	3153.0	3315.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	479.7	616.5	1653.0	3134.8	3402.0
115°	553.7	677.8	1561.8	3017.7	3413.3
117.5°	621.3	737.6	1491.2	2830.8	3271.3
120°	665.2	777.5	1455.5	2696.7	3149.3
122.5°	703.6	814.5	1429.4	2559.5	3010.8
125°	756.0	868.3	1402.3	2370.2	2789.3
127.5°	806.4	917.1	1385.2	2203.2	2577.4
130°	836.6	947.2	1378.3	2107.6	2436.1
132.5°	866.8	976.1	1371.5	2023.3	2325.0
135°	910.3	1015.9	1362.9	1912.1	2165.2
137.5°	951.8	1053.1	1358.5	1817.8	2025.7
140°	980.6	1077.8	1354.3	1759.8	1947.5
142.5°	1010.8	1101.3	1351.6	1705.6	1863.9
145°	1052.6	1134.8	1345.8	1634.8	1755.5
147.5°	1097.9	1169.3	1339.9	1575.3	1670.1
150°	1128.0	1190.1	1337.2	1537.9	1616.6
152.5°	1155.5	1209.5	1335.8	1507.3	1571.4
155°	1194.9	1238.5	1333.8	1466.8	1513.8
157.5°	1229.5	1263.4	1334.1	1438.4	1469.9
160°	1251.5	1280.0	1335.5	1421.7	1445.2
162.5°	1270.7	1293.8	1336.9	1407.9	1424.6
165°	1296.1	1311.1	1338.9	1392.2	1398.9
167.5°	1316.6	1325.3	1340.6	1380.1	1382.8
170°	1330.3	1333.7	1340.6	1373.2	1373.2
172.5°	1338.6	1339.2	1342.0	1366.3	1366.3
175°	1347.5	1345.8	1340.6	1359.4	1356.1
177.5°	1351.3	1348.6	1341.7	1352.6	1349.9
180°	1345.8	1345.8	1345.8	1345.8	1345.8

(END OF REPORT)