

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: P562993

Luminaire Tested: **SQ4-PC3-125U-050D-840-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562993
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-050D-840-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

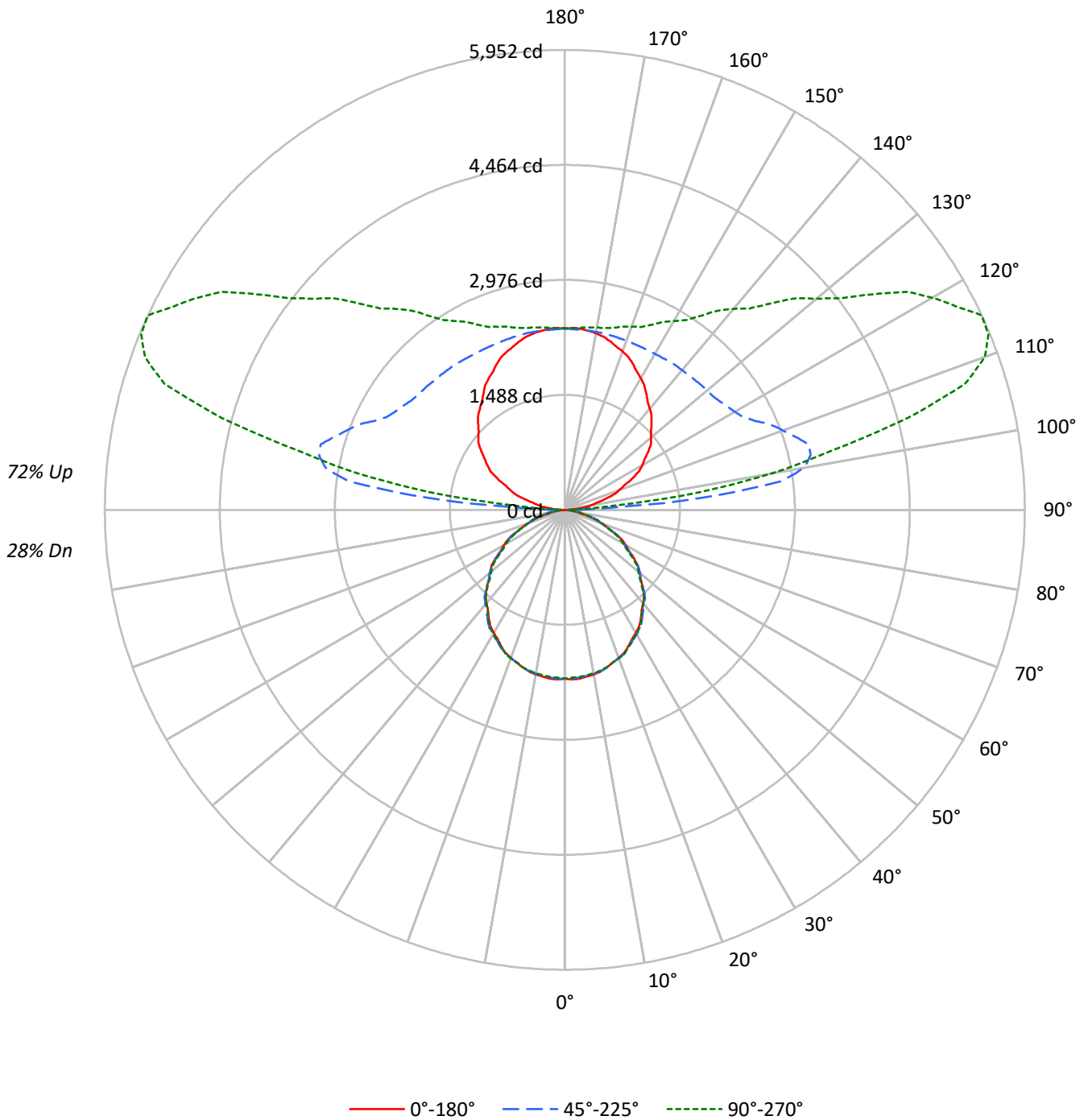
Lumens per Lamp: N/A
Luminaire Lumens: 21117.7 lumens
Efficiency: N/A
Efficacy: 144.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 146.4
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	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36	28
1	93	89	85	82	83	80	76	74	62	60	58	47	45	44	32	31	31	24
2	85	77	72	67	75	70	65	60	55	51	48	41	39	37	28	27	26	20
3	77	68	61	55	69	61	55	50	48	44	40	36	33	31	25	23	22	17
4	70	60	52	47	63	54	48	43	43	38	34	32	29	26	22	20	19	14
5	65	53	46	40	57	48	41	36	38	33	29	29	25	23	20	18	16	13
6	59	48	40	34	53	43	36	31	34	29	26	26	22	20	18	16	14	11
7	55	43	35	30	49	39	32	27	31	26	22	23	20	17	16	14	13	10
8	51	39	31	26	45	35	29	24	28	23	20	21	18	15	15	13	11	9
9	47	35	28	23	42	32	26	21	26	21	17	20	16	14	14	12	10	8
10	44	32	25	21	39	29	23	19	23	19	16	18	15	12	13	11	9	7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6720	6720	6720
5°	6770	6727	6702
10°	6754	6722	6703
15°	6718	6718	6712
20°	6674	6694	6694
25°	6611	6659	6639
30°	6531	6610	6581
35°	6433	6532	6487
40°	6327	6417	6352
45°	6212	6256	6159
50°	6050	6050	5953
55°	5858	5782	5695
60°	5575	5463	5376
65°	5153	5050	5006
70°	4511	4548	4530
75°	3630	4015	4039
80°	2580	3404	3439
85°	1570	2855	2855



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.8	1.0
10°-20°	593.4	2.8
20°-30°	898.7	4.3
30°-40°	1077.4	5.1
40°-50°	1098.6	5.2
50°-60°	959.0	4.5
60°-70°	686.5	3.3
70°-80°	353.6	1.7
80°-90°	94.9	0.4
90°-100°	1097.8	5.2
100°-110°	2957.1	14.0
110°-120°	3103.4	14.7
120°-130°	2518.3	11.9
130°-140°	1975.0	9.4
140°-150°	1516.3	7.2
150°-160°	1090.2	5.2
160°-170°	666.1	3.2
170°-180°	224.6	1.1
0°-30°	1698.9	8.0
0°-40°	2776.2	13.1
0°-60°	4833.8	22.9
0°-90°	5968.8	28.3
90°-120°	7158.3	33.9
90°-150°	13168.0	62.4
90°-180°	15149.0	71.7
0°-180°	21117.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2185	2185	2185	2185	2185	
5°	2193	2171	2179	2173	2171	208
15°	2110	2092	2110	2110	2108	595
25°	1948	1934	1962	1956	1956	897
35°	1714	1710	1740	1728	1728	1072
45°	1428	1424	1438	1420	1416	1099
55°	1092	1079	1078	1062	1062	974
65°	708	692	694	688	688	700
75°	306	319	338	340	340	330
85°	44	68	81	83	81	61
90°	6	18	36	39	39	14
95°	167	597	1800	920	637	175
105°	547	851	3270	4893	4592	575
115°	966	1182	2723	5262	5952	950
125°	1318	1514	2445	4133	4864	1177
135°	1587	1772	2376	3334	3776	1225
145°	1836	1979	2347	2851	3061	1151
155°	2084	2160	2326	2558	2640	959
165°	2260	2286	2335	2428	2439	637
175°	2350	2347	2338	2370	2365	223
180°	2347	2347	2347	2347	2347	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2185.0	2185.0	2185.0	2185.0	2185.0
2.5°	2198.0	2179.0	2185.0	2180.0	2172.1
5°	2193.1	2171.3	2178.9	2172.8	2170.8
7.5°	2177.3	2155.6	2165.6	2161.5	2159.5
10°	2162.8	2141.0	2152.6	2148.5	2146.6
12.5°	2143.3	2123.2	2136.4	2132.4	2132.0
15°	2110.1	2092.3	2110.1	2110.1	2108.1
17.5°	2068.5	2052.3	2071.3	2072.5	2071.3
20°	2039.3	2021.5	2045.4	2043.4	2045.4
22.5°	2003.7	1989.1	2014.7	2009.4	2011.4
25°	1948.3	1934.4	1962.5	1956.4	1956.4
27.5°	1882.7	1872.9	1903.4	1896.9	1896.9
30°	1839.0	1829.2	1861.3	1853.2	1853.2
32.5°	1790.5	1783.8	1814.4	1804.7	1804.7
35°	1713.6	1709.7	1739.9	1727.8	1727.8
37.5°	1634.3	1630.7	1658.2	1643.5	1638.8
40°	1576.0	1574.1	1598.3	1582.1	1582.1
42.5°	1517.8	1515.8	1536.8	1517.4	1517.4
45°	1428.3	1424.4	1438.5	1420.2	1416.2
47.5°	1330.8	1326.9	1335.7	1315.8	1313.8
50°	1264.5	1260.5	1264.5	1246.2	1244.2
52.5°	1196.5	1189.4	1190.0	1171.8	1171.4
55°	1092.5	1078.7	1078.3	1062.2	1062.2
57.5°	982.4	964.2	965.9	952.1	950.1
60°	906.4	886.6	888.2	876.0	874.0
62.5°	831.9	809.0	813.7	799.9	799.6
65°	708.1	692.3	693.9	687.9	687.9
67.5°	589.1	574.5	585.1	580.2	579.8
70°	501.7	491.9	505.8	505.7	503.8
72.5°	420.8	420.4	437.8	437.8	439.0
75°	305.5	319.3	337.9	339.9	339.9
77.5°	203.9	228.5	248.8	249.6	249.3
80°	145.7	173.4	192.2	196.2	194.2
82.5°	98.7	128.0	143.6	147.6	145.7
85°	44.5	68.2	80.9	82.9	80.9
87.5°	14.1	30.7	39.5	40.1	36.9
90°	6.0	17.7	35.9	38.9	38.9
92.5°	72.9	257.7	509.4	245.2	170.4
95°	167.4	597.1	1799.6	920.3	636.7
97.5°	267.2	683.5	2822.5	2358.0	1778.1
100°	343.8	717.9	3147.8	3293.5	2732.3
102.5°	417.9	766.3	3255.4	3994.1	3533.4
105°	547.0	851.0	3270.3	4892.7	4591.6
107.5°	669.0	940.3	3131.0	5354.5	5432.2
110°	750.3	1007.5	3004.3	5497.9	5781.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	836.4	1074.9	2882.3	5466.1	5932.0
115°	965.6	1181.9	2723.3	5262.0	5951.8
117.5°	1083.3	1286.2	2600.1	4936.1	5704.3
120°	1159.9	1355.7	2538.0	4702.2	5491.4
122.5°	1226.8	1420.3	2492.5	4463.0	5249.9
125°	1318.3	1514.1	2445.3	4132.9	4863.7
127.5°	1406.2	1599.1	2415.4	3841.8	4494.2
130°	1458.8	1651.7	2403.4	3675.0	4247.9
132.5°	1511.4	1702.0	2391.5	3528.0	4054.1
135°	1587.3	1771.5	2376.5	3334.2	3775.5
137.5°	1659.7	1836.2	2368.8	3169.8	3532.2
140°	1709.9	1879.4	2361.6	3068.5	3395.9
142.5°	1762.5	1920.4	2356.8	2974.1	3250.0
145°	1835.5	1978.7	2346.6	2850.6	3061.1
147.5°	1914.4	2038.9	2336.5	2746.8	2912.2
150°	1967.0	2075.1	2331.7	2681.6	2818.9
152.5°	2014.8	2108.9	2329.3	2628.4	2740.0
155°	2083.6	2159.6	2325.7	2557.7	2639.6
157.5°	2144.0	2203.0	2326.3	2508.1	2563.1
160°	2182.2	2231.9	2328.7	2479.1	2520.0
162.5°	2215.7	2256.0	2331.1	2454.9	2484.1
165°	2259.9	2286.2	2334.7	2427.6	2439.3
167.5°	2295.8	2311.0	2337.7	2406.5	2411.2
170°	2319.7	2325.6	2337.7	2394.5	2394.5
172.5°	2334.1	2335.2	2340.1	2382.5	2382.5
175°	2349.6	2346.7	2337.7	2370.4	2364.6
177.5°	2356.2	2351.5	2339.5	2358.5	2353.8
180°	2346.6	2346.6	2346.6	2346.6	2346.6

(END OF REPORT)