

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: P563132

Luminaire Tested: **SQ4-PC3-150U-100D-830-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563132
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, 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-PC3-150U-100D-830-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

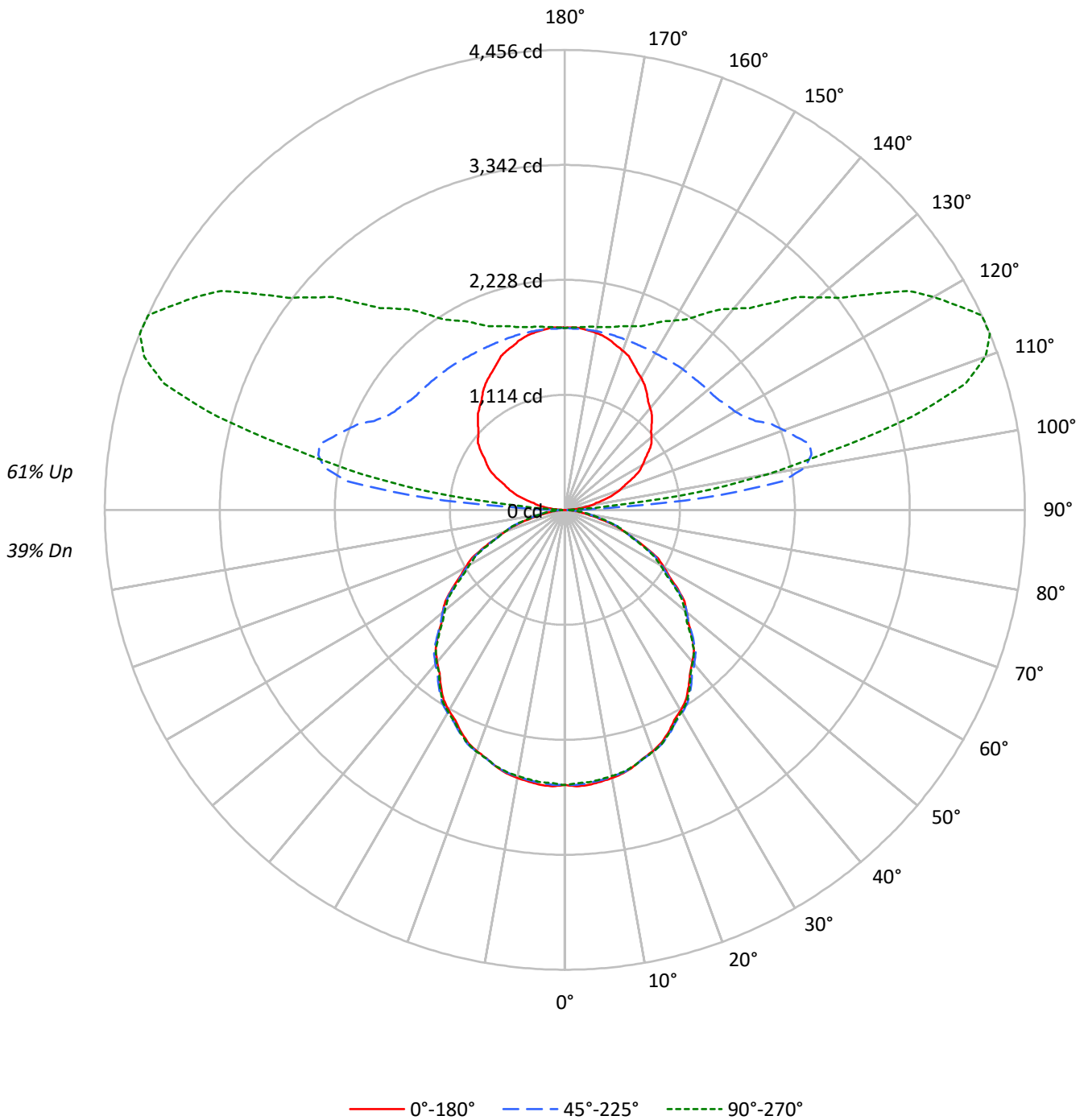
Lumens per Lamp: N/A
Luminaire Lumens: 18651.0 lumens
Efficiency: N/A
Efficacy: 125.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 148.4
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	50	30	10	0	
RCR																						
0	105	105	105	105	95	95	95	95	77	77	77	61	61	61	46	46	46	39				
1	95	91	87	84	87	83	80	77	68	65	63	54	52	51	41	40	39	33				
2	87	80	74	69	79	73	67	63	59	56	52	47	45	42	36	34	33	28				
3	79	70	63	57	72	64	58	53	52	48	44	42	38	36	32	30	28	23				
4	72	62	54	48	65	56	50	44	46	41	37	37	33	31	28	26	24	20				
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	23	21	17				
6	61	49	41	35	55	45	38	33	37	32	28	30	26	23	23	20	18	15				
7	56	44	36	31	51	41	34	29	34	28	25	27	23	20	21	18	16	13				
8	52	40	32	27	47	37	30	25	31	25	22	25	21	18	19	17	14	12				
9	49	37	29	24	44	34	27	23	28	23	19	23	19	16	18	15	13	11				
10	45	33	26	22	41	31	24	20	26	21	17	21	17	15	16	14	12	10				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12298	12298	12298
5°	12390	12310	12264
10°	12360	12302	12268
15°	12295	12295	12283
20°	12214	12251	12251
25°	12099	12187	12149
30°	11952	12097	12044
35°	11774	11955	11871
40°	11579	11743	11624
45°	11369	11449	11272
50°	11072	11072	10894
55°	10720	10581	10423
60°	10202	9998	9838
65°	9430	9241	9160
70°	8256	8323	8290
75°	6643	7347	7391
80°	4721	6230	6296
85°	2874	5224	5224



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.3	1.4
10°-20°	724.0	3.9
20°-30°	1096.4	5.9
30°-40°	1314.4	7.0
40°-50°	1340.3	7.2
50°-60°	1170.0	6.3
60°-70°	837.6	4.5
70°-80°	431.4	2.3
80°-90°	112.8	0.6
90°-100°	819.7	4.4
100°-110°	2216.3	11.9
110°-120°	2330.1	12.5
120°-130°	1892.7	10.1
130°-140°	1484.7	8.0
140°-150°	1139.5	6.1
150°-160°	819.5	4.4
160°-170°	500.6	2.7
170°-180°	168.8	0.9
0°-30°	2072.7	11.1
0°-40°	3387.1	18.2
0°-60°	5897.3	31.6
0°-90°	7279.1	39.0
90°-120°	5366.2	28.8
90°-150°	9883.0	53.0
90°-180°	11372.0	61.0
0°-180°	18651.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2666	2666	2666	2666	2666	
5°	2676	2649	2658	2651	2648	254
15°	2574	2553	2574	2574	2572	726
25°	2377	2360	2394	2387	2387	1094
35°	2091	2086	2123	2108	2108	1308
45°	1743	1738	1755	1733	1728	1341
55°	1333	1316	1316	1296	1296	1188
65°	864	845	847	839	839	854
75°	373	390	412	415	415	403
85°	54	83	99	101	99	74
90°	4	11	25	26	25	11
95°	127	446	1363	706	420	133
105°	412	637	2459	3627	3478	434
115°	725	887	2039	3947	4456	716
125°	993	1138	1838	3101	3643	885
135°	1190	1332	1788	2504	2835	920
145°	1384	1488	1764	2143	2307	866
155°	1563	1624	1749	1923	1986	721
165°	1701	1718	1756	1825	1834	479
175°	1766	1764	1758	1781	1777	168
180°	1764	1764	1764	1764	1764	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2665.8	2665.8	2665.8	2665.8	2665.8
2.5°	2681.6	2658.4	2665.8	2659.7	2650.0
5°	2675.7	2649.1	2658.4	2650.9	2648.5
7.5°	2656.4	2629.9	2642.1	2637.1	2634.7
10°	2638.6	2612.1	2626.3	2621.3	2618.9
12.5°	2614.9	2590.3	2606.6	2601.6	2601.1
15°	2574.5	2552.7	2574.5	2574.4	2572.0
17.5°	2523.6	2503.8	2527.1	2528.5	2527.1
20°	2488.1	2466.4	2495.5	2493.1	2495.5
22.5°	2444.6	2426.8	2458.0	2451.6	2454.0
25°	2377.0	2360.1	2394.3	2386.9	2386.9
27.5°	2297.0	2285.0	2322.2	2314.3	2314.3
30°	2243.7	2231.6	2270.9	2261.0	2261.0
32.5°	2184.5	2176.3	2213.6	2201.7	2201.7
35°	2090.7	2085.8	2122.8	2108.0	2108.0
37.5°	1993.9	1989.6	2023.0	2005.1	1999.3
40°	1922.8	1920.4	1950.0	1930.2	1930.2
42.5°	1851.7	1849.3	1874.9	1851.2	1851.2
45°	1742.6	1737.8	1755.0	1732.7	1727.8
47.5°	1623.7	1618.8	1629.6	1605.3	1602.9
50°	1542.7	1537.9	1542.7	1520.4	1518.0
52.5°	1459.8	1451.1	1451.9	1429.6	1429.2
55°	1332.9	1316.0	1315.6	1295.9	1295.9
57.5°	1198.6	1176.4	1178.4	1161.5	1159.1
60°	1105.8	1081.7	1083.6	1068.7	1066.3
62.5°	1015.0	987.0	992.8	976.0	975.5
65°	863.9	844.6	846.6	839.2	839.2
67.5°	718.8	700.9	713.8	707.9	707.4
70°	612.1	600.1	617.1	617.0	614.6
72.5°	513.4	512.9	534.1	534.2	535.6
75°	372.7	389.6	412.2	414.7	414.7
77.5°	248.8	278.7	303.6	304.6	304.1
80°	177.7	211.5	234.5	239.4	237.0
82.5°	120.5	156.2	175.3	180.1	177.7
85°	54.3	83.3	98.7	101.1	98.7
87.5°	16.6	35.4	44.4	44.7	40.5
90°	3.8	11.2	24.7	26.5	24.7
92.5°	53.9	196.5	387.7	168.3	121.9
95°	127.2	446.5	1363.2	705.5	419.6
97.5°	204.3	512.1	2124.9	1758.5	1291.4
100°	262.0	538.6	2361.9	2463.2	1991.6
102.5°	315.2	575.4	2445.4	2997.5	2644.8
105°	412.0	636.6	2458.7	3626.8	3478.3
107.5°	501.6	706.6	2351.2	4019.3	4068.7
110°	571.5	757.1	2255.5	4124.7	4334.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	633.8	807.5	2167.5	4103.7	4456.0
115°	725.3	886.8	2039.1	3947.4	4456.0
117.5°	814.9	966.4	1954.4	3708.6	4285.2
120°	869.6	1018.1	1904.3	3537.2	4125.7
122.5°	921.2	1066.7	1873.9	3353.5	3946.4
125°	993.0	1137.8	1837.9	3101.4	3643.4
127.5°	1059.0	1201.2	1816.6	2895.6	3372.3
130°	1095.5	1242.2	1807.5	2768.5	3199.2
132.5°	1133.5	1278.6	1798.4	2653.8	3050.3
135°	1190.4	1331.5	1788.5	2504.2	2834.6
137.5°	1247.8	1381.1	1780.1	2382.8	2652.0
140°	1287.3	1411.6	1777.1	2304.7	2544.1
142.5°	1325.2	1442.2	1771.0	2234.1	2443.9
145°	1384.1	1488.0	1763.8	2143.4	2306.8
147.5°	1437.6	1529.7	1755.5	2061.3	2186.8
150°	1477.1	1558.8	1752.4	2016.7	2116.9
152.5°	1513.6	1584.9	1750.9	1975.3	2057.7
155°	1562.6	1623.8	1748.6	1922.8	1985.9
157.5°	1613.4	1656.1	1749.0	1886.3	1927.8
160°	1642.3	1677.6	1750.5	1863.2	1892.9
162.5°	1665.1	1694.4	1752.0	1844.8	1867.1
165°	1701.2	1717.9	1756.2	1824.8	1834.1
167.5°	1725.8	1737.3	1756.6	1807.6	1812.0
170°	1741.0	1746.6	1758.1	1799.9	1799.9
172.5°	1753.2	1754.3	1758.1	1790.7	1789.2
175°	1765.7	1763.9	1758.1	1780.8	1777.1
177.5°	1769.9	1765.4	1757.7	1772.8	1768.4
180°	1763.8	1763.8	1763.8	1763.8	1763.8

(END OF REPORT)