

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: P563117

Luminaire Tested: **SQ4-PC3-150U-075D-930-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563117
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-075D-930-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

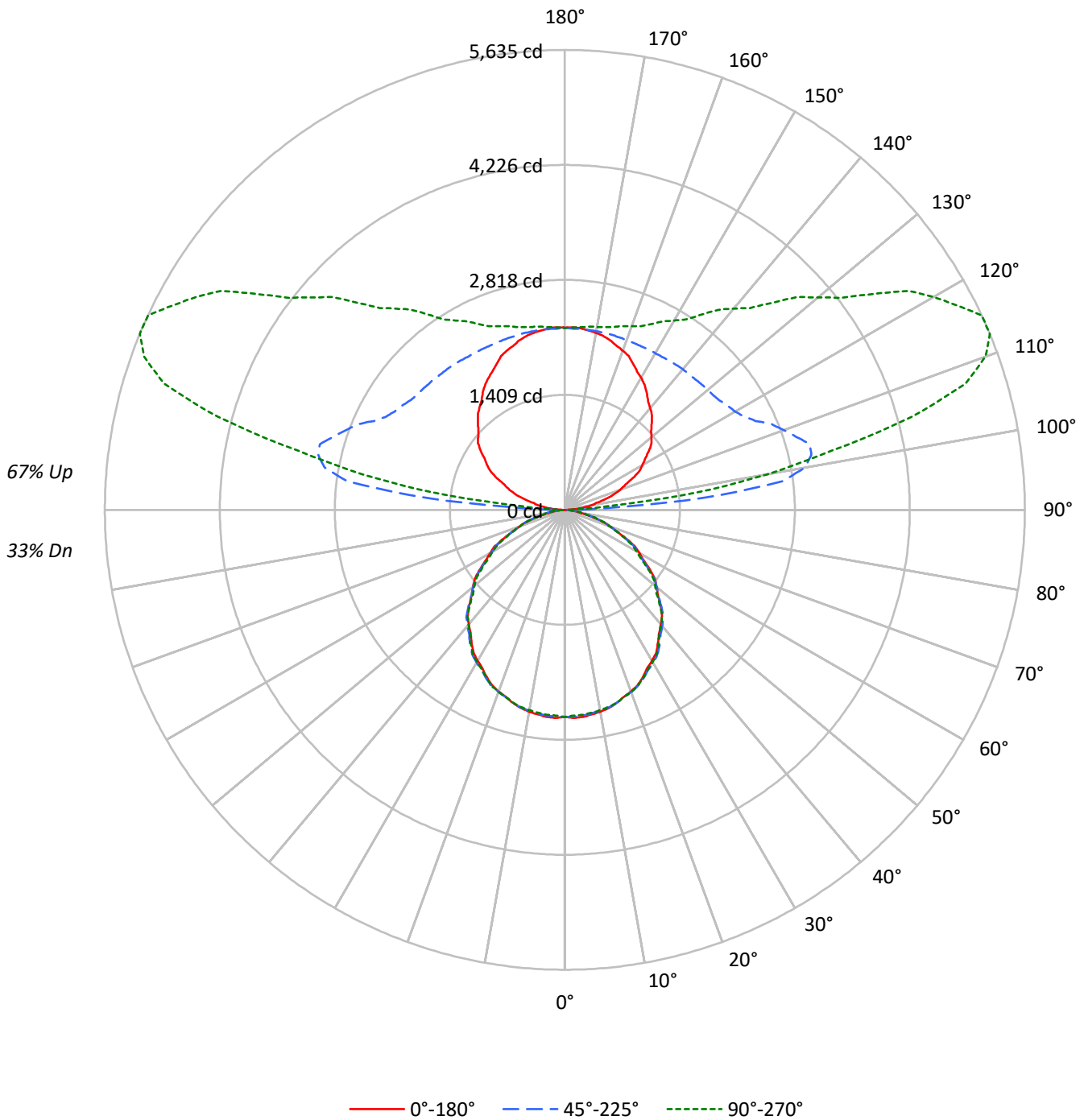
Lumens per Lamp: N/A
Luminaire Lumens: 21309.8 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 194.9
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	103	103	103	103	93	93	93	93	74	74	74	56	56	56	40	40	40	33
1	94	90	86	83	84	81	78	75	64	62	60	49	48	47	35	35	34	27
2	85	78	72	67	77	71	66	61	56	53	50	43	41	39	31	30	29	23
3	78	69	62	56	70	62	56	51	50	45	42	38	35	33	28	26	24	19
4	71	61	53	47	64	55	48	43	44	39	36	34	31	28	25	23	21	17
5	65	54	46	40	58	49	42	37	39	34	31	30	27	24	22	20	18	14
6	60	48	40	35	54	44	37	32	35	30	26	27	24	21	20	18	16	13
7	55	43	36	30	50	39	33	28	32	27	23	25	21	19	18	16	14	11
8	51	39	32	27	46	36	29	25	29	24	20	23	19	16	17	14	13	10
9	48	36	28	24	43	33	26	22	26	22	18	21	17	15	15	13	11	9
10	44	33	26	21	40	30	24	19	24	20	16	19	16	13	14	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7803	7803	7803
5°	7862	7811	7782
10°	7842	7806	7784
15°	7801	7801	7794
20°	7750	7773	7773
25°	7677	7732	7709
30°	7583	7675	7642
35°	7470	7585	7532
40°	7347	7451	7375
45°	7213	7265	7152
50°	7025	7025	6913
55°	6802	6714	6613
60°	6473	6343	6242
65°	5983	5864	5812
70°	5239	5281	5260
75°	4215	4661	4690
80°	2995	3953	3994
85°	1824	3317	3317



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.1	1.1
10°-20°	689.1	3.2
20°-30°	1043.5	4.9
30°-40°	1251.0	5.9
40°-50°	1275.6	6.0
50°-60°	1113.5	5.2
60°-70°	797.2	3.7
70°-80°	410.6	1.9
80°-90°	108.5	0.5
90°-100°	1036.6	4.9
100°-110°	2802.7	13.2
110°-120°	2946.7	13.8
120°-130°	2393.5	11.2
130°-140°	1877.5	8.8
140°-150°	1441.0	6.8
150°-160°	1036.3	4.9
160°-170°	633.1	3.0
170°-180°	213.4	1.0
0°-30°	1972.7	9.3
0°-40°	3223.7	15.1
0°-60°	5612.8	26.3
0°-90°	6929.0	32.5
90°-120°	6786.0	31.8
90°-150°	12497.9	58.6
90°-180°	14381.0	67.5
0°-180°	21309.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2537	2537	2537	2537	2537	
5°	2547	2521	2530	2523	2521	242
15°	2450	2430	2450	2450	2448	691
25°	2262	2246	2279	2272	2272	1041
35°	1990	1985	2020	2006	2006	1244
45°	1658	1654	1670	1649	1644	1277
55°	1269	1252	1252	1233	1233	1131
65°	822	804	806	799	799	813
75°	355	371	392	395	395	383
85°	52	79	94	96	94	70
90°	5	14	31	34	31	13
95°	161	565	1724	892	531	168
105°	521	805	3109	4586	4398	549
115°	917	1121	2579	4992	5635	906
125°	1256	1439	2324	3922	4607	1119
135°	1505	1684	2262	3167	3585	1163
145°	1750	1882	2230	2711	2917	1095
155°	1976	2054	2211	2432	2511	911
165°	2151	2172	2221	2308	2319	606
175°	2233	2230	2223	2252	2247	212
180°	2230	2230	2230	2230	2230	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2537.2	2537.2	2537.2	2537.2	2537.2
2.5°	2552.2	2530.1	2537.2	2531.3	2522.1
5°	2546.6	2521.3	2530.1	2523.0	2520.7
7.5°	2528.2	2503.0	2514.6	2509.9	2507.6
10°	2511.3	2486.0	2499.6	2494.8	2492.5
12.5°	2488.8	2465.3	2480.8	2476.1	2475.6
15°	2450.2	2429.6	2450.2	2450.2	2447.9
17.5°	2401.8	2383.0	2405.1	2406.5	2405.1
20°	2368.0	2347.3	2375.1	2372.8	2375.1
22.5°	2326.7	2309.7	2339.4	2333.3	2335.6
25°	2262.3	2246.2	2278.7	2271.7	2271.7
27.5°	2186.2	2174.7	2210.1	2202.6	2202.6
30°	2135.4	2124.0	2161.3	2151.9	2151.9
32.5°	2079.1	2071.2	2106.8	2095.5	2095.5
35°	1989.8	1985.2	2020.3	2006.2	2006.2
37.5°	1897.7	1893.6	1925.4	1908.4	1902.9
40°	1830.0	1827.7	1855.9	1837.1	1837.1
42.5°	1762.4	1760.1	1784.5	1761.9	1761.9
45°	1658.5	1654.0	1670.3	1649.0	1644.5
47.5°	1545.3	1540.7	1551.0	1527.9	1525.6
50°	1468.3	1463.7	1468.3	1447.1	1444.8
52.5°	1389.3	1381.1	1381.8	1360.7	1360.2
55°	1268.6	1252.5	1252.1	1233.3	1233.3
57.5°	1140.8	1119.6	1121.5	1105.5	1103.2
60°	1052.4	1029.5	1031.3	1017.2	1014.9
62.5°	966.0	939.4	944.9	928.9	928.4
65°	822.2	803.8	805.8	798.7	798.7
67.5°	684.1	667.1	679.4	673.7	673.3
70°	582.6	571.1	587.3	587.3	585.0
72.5°	488.6	488.2	508.4	508.4	509.8
75°	354.7	370.8	392.3	394.7	394.7
77.5°	236.8	265.3	289.0	289.9	289.4
80°	169.1	201.3	223.2	227.8	225.5
82.5°	114.6	148.6	166.8	171.4	169.1
85°	51.7	79.2	94.0	96.3	94.0
87.5°	16.0	34.4	43.8	44.2	40.1
90°	4.8	14.2	31.2	33.6	31.2
92.5°	68.2	248.5	490.3	212.8	154.1
95°	160.9	564.7	1723.9	892.1	530.6
97.5°	258.3	647.6	2687.1	2223.8	1633.1
100°	331.3	681.1	2986.8	3114.9	2518.6
102.5°	398.6	727.7	3092.4	3790.6	3344.5
105°	521.0	805.1	3109.2	4586.4	4398.5
107.5°	634.3	893.5	2973.3	5082.8	5145.2
110°	722.7	957.4	2852.3	5216.1	5481.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	801.4	1021.2	2740.9	5189.5	5635.0
115°	917.2	1121.4	2578.6	4991.8	5635.0
117.5°	1030.5	1222.1	2471.5	4689.8	5419.0
120°	1099.6	1287.4	2408.2	4473.1	5217.3
122.5°	1164.9	1349.0	2369.7	4240.8	4990.6
125°	1255.7	1438.8	2324.1	3921.9	4607.4
127.5°	1339.3	1519.1	2297.2	3661.7	4264.6
130°	1385.4	1570.8	2285.7	3501.0	4045.6
132.5°	1433.4	1617.0	2274.2	3355.9	3857.4
135°	1505.4	1683.8	2261.7	3166.8	3584.6
137.5°	1577.9	1746.5	2251.1	3013.2	3353.7
140°	1627.8	1785.1	2247.3	2914.4	3217.3
142.5°	1675.9	1823.8	2239.6	2825.2	3090.5
145°	1750.3	1881.8	2230.5	2710.6	2917.2
147.5°	1818.0	1934.4	2219.9	2606.7	2765.4
150°	1867.9	1971.2	2216.1	2550.3	2677.1
152.5°	1914.0	2004.2	2214.2	2497.9	2602.2
155°	1976.0	2053.5	2211.3	2431.6	2511.4
157.5°	2040.3	2094.3	2211.8	2385.3	2437.9
160°	2076.8	2121.4	2213.7	2356.2	2393.8
162.5°	2105.6	2142.7	2215.6	2332.9	2361.1
165°	2151.3	2172.4	2220.9	2307.6	2319.3
167.5°	2182.5	2197.0	2221.4	2285.8	2291.5
170°	2201.7	2208.7	2223.3	2276.1	2276.1
172.5°	2217.0	2218.4	2223.3	2264.5	2262.7
175°	2232.9	2230.5	2223.3	2252.0	2247.3
177.5°	2238.2	2232.5	2222.8	2241.9	2236.2
180°	2230.5	2230.5	2230.5	2230.5	2230.5

(END OF REPORT)