

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: P564500

Luminaire Tested: **SQ4-PR1-150U-125D-830-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564500
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-150U-125D-830-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

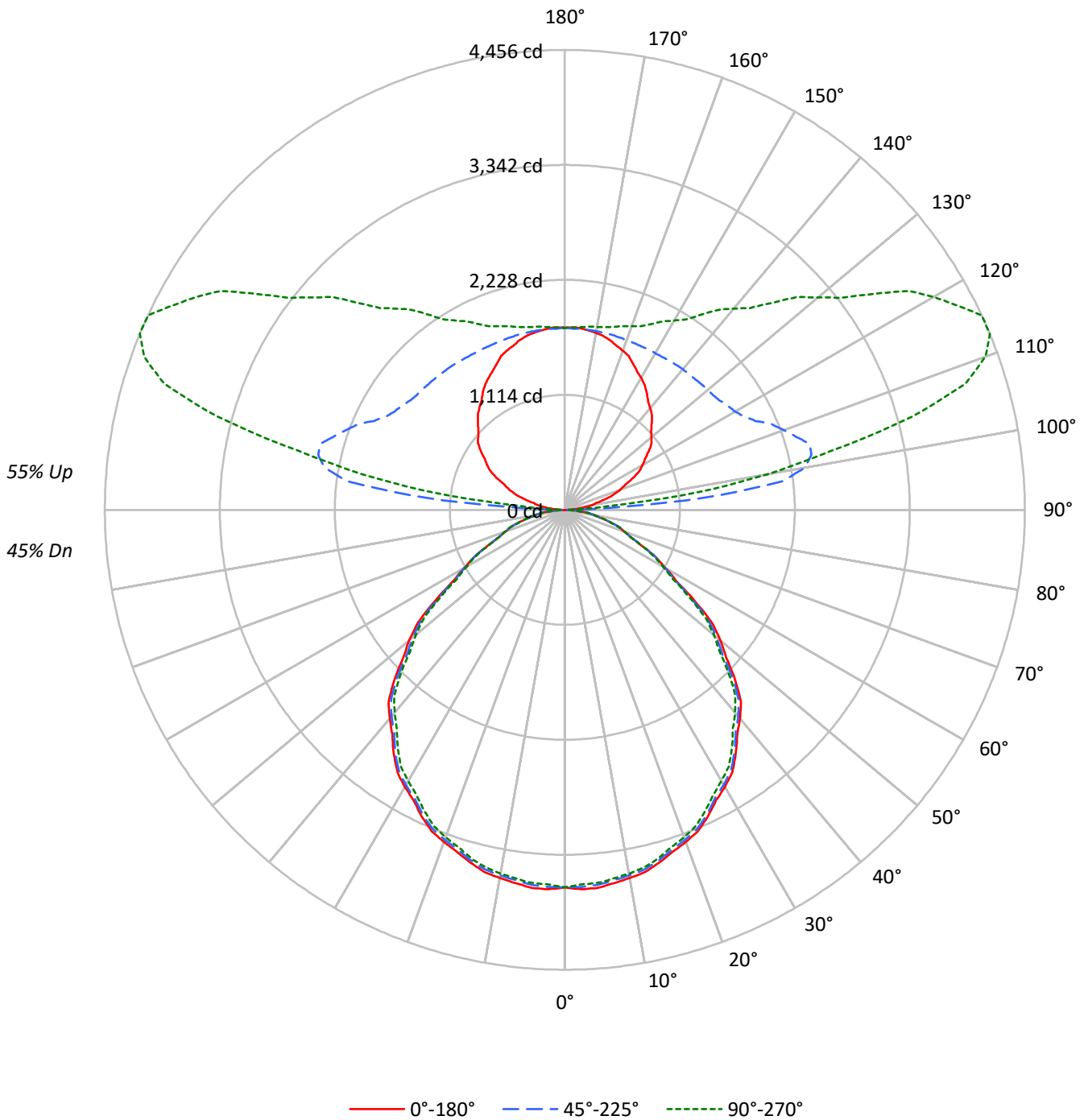
Lumens per Lamp: N/A
Luminaire Lumens: 20517.8 lumens
Efficiency: N/A
Efficacy: 122.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 167.8
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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	45
1	97	93	89	85	89	85	82	79	71	68	66	58	56	55	46	45	44	38
2	88	81	75	70	81	75	69	65	62	59	55	51	48	46	40	39	37	32
3	81	72	64	59	74	66	60	55	55	51	47	45	42	39	36	34	32	28
4	74	63	56	50	68	58	52	47	49	44	40	40	37	34	32	30	28	24
5	68	57	49	43	62	52	45	40	44	39	35	36	32	29	29	26	24	21
6	63	51	43	37	57	47	40	35	40	34	30	33	29	26	27	24	21	18
7	58	46	38	33	53	42	35	31	36	31	27	30	26	23	24	21	19	16
8	54	42	34	29	49	39	32	27	33	27	24	27	23	20	22	19	17	15
9	50	38	31	26	46	35	29	24	30	25	21	25	21	18	21	18	15	13
10	47	35	28	23	43	32	26	22	28	23	19	23	19	17	19	16	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16870	16870	16870
5°	17022	16891	16804
10°	16968	16850	16762
15°	16894	16788	16698
20°	16809	16700	16577
25°	16691	16578	16386
30°	16510	16393	16158
35°	16267	16125	15894
40°	15896	15725	15440
45°	15248	14981	14672
50°	14106	13767	13496
55°	12313	12033	11780
60°	10375	10288	10084
65°	8974	9009	8940
70°	8242	8284	8284
75°	7915	7915	7973
80°	7446	7531	7446
85°	6002	6669	6669



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	345.8	1.7
10°-20°	989.5	4.8
20°-30°	1492.4	7.3
30°-40°	1778.2	8.7
40°-50°	1753.1	8.5
50°-60°	1339.8	6.5
60°-70°	829.1	4.0
70°-80°	470.9	2.3
80°-90°	146.9	0.7
90°-100°	819.7	4.0
100°-110°	2216.3	10.8
110°-120°	2330.1	11.4
120°-130°	1892.7	9.2
130°-140°	1484.7	7.2
140°-150°	1139.5	5.6
150°-160°	819.5	4.0
160°-170°	500.6	2.4
170°-180°	168.8	0.8
0°-30°	2827.7	13.8
0°-40°	4605.9	22.4
0°-60°	7698.9	37.5
0°-90°	9145.9	44.6
90°-120°	5366.2	26.2
90°-150°	9883.0	48.2
90°-180°	11372.0	55.4
0°-180°	20517.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3657	3657	3657	3657	3657	
5°	3676	3636	3648	3635	3629	349
15°	3537	3500	3515	3503	3496	998
25°	3279	3239	3257	3222	3219	1509
35°	2888	2855	2863	2825	2822	1803
45°	2337	2306	2296	2255	2249	1791
55°	1531	1506	1496	1471	1465	1372
65°	822	816	825	819	819	833
75°	444	444	444	447	447	469
85°	113	120	126	126	126	132
90°	4	11	25	26	25	13
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°	3657.0	3657.0	3657.0	3657.0	3657.0
2.5°	3679.7	3647.7	3657.0	3649.1	3631.8
5°	3675.9	3635.9	3647.6	3634.9	3628.7
7.5°	3647.6	3608.2	3619.9	3607.2	3603.5
10°	3622.4	3585.4	3597.2	3584.5	3578.3
12.5°	3594.7	3555.3	3569.5	3554.2	3548.1
15°	3537.3	3500.4	3515.3	3502.6	3496.4
17.5°	3474.3	3434.9	3449.8	3435.1	3427.1
20°	3424.0	3387.0	3401.9	3379.8	3376.7
22.5°	3368.5	3331.6	3346.5	3316.8	3316.2
25°	3279.1	3239.0	3257.0	3222.3	3219.2
27.5°	3172.6	3135.6	3150.5	3115.2	3111.5
30°	3099.5	3062.6	3077.5	3039.5	3033.4
32.5°	3016.4	2981.9	2994.3	2956.4	2952.7
35°	2888.5	2854.6	2863.3	2825.4	2822.3
37.5°	2742.9	2712.1	2717.1	2675.5	2672.4
40°	2639.6	2608.8	2611.3	2567.1	2564.0
42.5°	2526.2	2495.4	2492.8	2448.7	2445.6
45°	2337.2	2306.4	2296.3	2255.2	2249.0
47.5°	2121.8	2091.0	2072.0	2038.5	2034.2
50°	1965.5	1934.7	1918.3	1889.7	1880.5
52.5°	1796.7	1765.9	1752.0	1725.9	1716.7
55°	1530.9	1506.2	1496.2	1470.9	1464.7
57.5°	1278.2	1261.6	1258.7	1234.1	1231.6
60°	1124.5	1115.3	1115.1	1093.0	1093.0
62.5°	993.5	986.7	991.6	977.0	974.6
65°	822.1	816.0	825.3	819.0	819.0
67.5°	686.7	686.7	692.4	689.8	689.8
70°	611.1	611.1	614.2	614.2	614.2
72.5°	543.0	540.6	548.7	548.7	546.2
75°	444.1	444.1	444.1	447.3	447.3
77.5°	345.9	346.5	349.0	348.3	345.9
80°	280.3	283.4	283.5	280.3	280.3
82.5°	214.8	217.9	218.0	217.3	214.8
85°	113.4	119.6	126.0	126.0	126.0
87.5°	33.5	44.9	55.3	55.7	52.8
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)