

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: P563828

Luminaire Tested: **SQ4-PP3-150U-125D-830-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563828
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-150U-125D-830-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

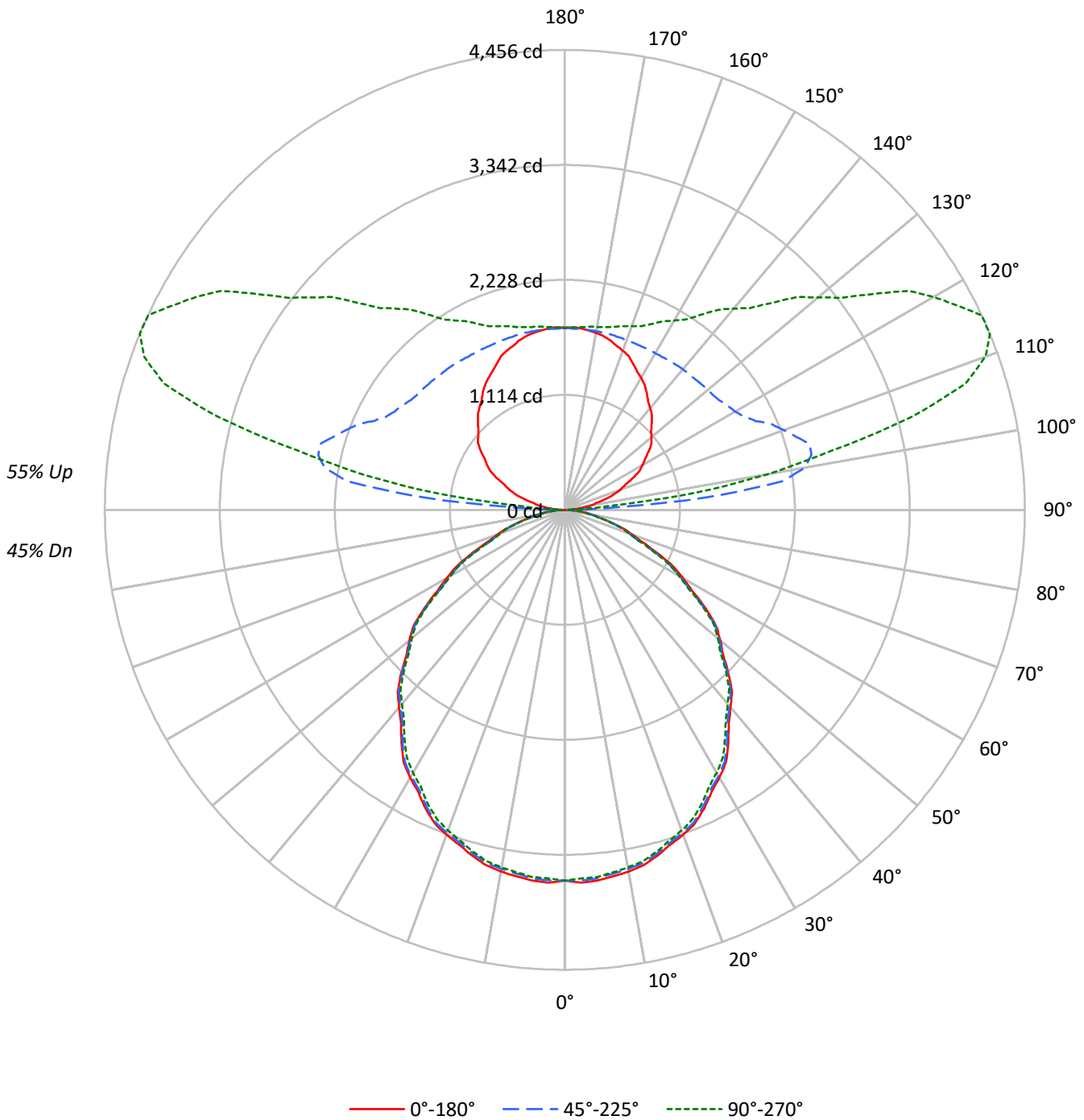
Lumens per Lamp: N/A
Luminaire Lumens: 20572.3 lumens
Efficiency: N/A
Efficacy: 122.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

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	74	69	65	62	58	55	51	48	46	40	39	37	32
3	81	71	64	58	74	66	59	54	55	50	47	45	42	39	36	34	32	27
4	74	63	55	49	67	58	51	46	49	44	40	40	36	33	32	29	27	24
5	68	56	48	42	62	52	45	40	44	38	34	36	32	29	29	26	24	20
6	62	50	42	37	57	47	40	34	39	34	30	33	28	25	26	23	21	18
7	58	45	38	32	53	42	35	30	36	30	26	30	25	22	24	21	19	16
8	53	41	34	28	49	38	31	27	32	27	23	27	23	20	22	19	17	14
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	20	17	15	13
10	46	34	27	23	43	32	26	21	27	22	19	23	19	16	19	16	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16576	16576	16576
5°	16697	16596	16537
10°	16669	16551	16477
15°	16559	16469	16378
20°	16449	16356	16233
25°	16254	16141	15981
30°	15953	15869	15668
35°	15536	15429	15234
40°	15039	14944	14773
45°	14628	14525	14381
50°	14103	14013	13877
55°	13373	13196	13094
60°	12174	11825	11767
65°	10725	10278	10244
70°	9259	8878	8878
75°	7971	7858	7746
80°	7027	7112	6944
85°	5499	6002	6002



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	339.8	1.7
10°-20°	970.2	4.7
20°-30°	1453.2	7.1
30°-40°	1704.5	8.3
40°-50°	1709.8	8.3
50°-60°	1458.6	7.1
60°-70°	951.3	4.6
70°-80°	477.3	2.3
80°-90°	135.8	0.7
90°-100°	819.7	4.0
100°-110°	2216.3	10.8
110°-120°	2330.1	11.3
120°-130°	1892.7	9.2
130°-140°	1484.7	7.2
140°-150°	1139.5	5.5
150°-160°	819.5	4.0
160°-170°	500.6	2.4
170°-180°	168.8	0.8
0°-30°	2763.1	13.4
0°-40°	4467.6	21.7
0°-60°	7636.0	37.1
0°-90°	9200.3	44.7
90°-120°	5366.2	26.1
90°-150°	9883.0	48.0
90°-180°	11372.0	55.3
0°-180°	20572.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3593	3593	3593	3593	3593	
5°	3606	3572	3584	3571	3571	342
15°	3467	3433	3448	3436	3429	978
25°	3193	3156	3171	3143	3140	1468
35°	2759	2731	2740	2708	2705	1723
45°	2242	2227	2226	2204	2204	1726
55°	1663	1657	1641	1631	1628	1478
65°	982	964	942	935	938	981
75°	447	447	441	438	435	485
85°	104	113	113	113	113	122
90°	4	11	25	26	25	12
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°	3593.2	3593.2	3593.2	3593.2	3593.2
2.5°	3615.9	3586.3	3593.2	3587.8	3573.0
5°	3605.8	3571.9	3583.8	3571.2	3571.2
7.5°	3581.2	3544.3	3556.0	3543.4	3542.8
10°	3558.6	3521.6	3533.4	3520.7	3517.6
12.5°	3525.8	3488.9	3503.1	3488.0	3487.4
15°	3467.2	3433.4	3448.3	3435.6	3429.4
17.5°	3401.1	3364.2	3382.2	3364.5	3362.1
20°	3350.7	3313.8	3331.8	3306.6	3306.6
22.5°	3290.3	3253.3	3273.9	3241.1	3241.1
25°	3193.3	3156.3	3171.2	3142.8	3139.7
27.5°	3078.0	3041.7	3057.2	3025.1	3024.5
30°	2994.9	2961.0	2979.1	2944.4	2941.3
32.5°	2904.2	2872.8	2885.9	2851.2	2848.1
35°	2758.7	2731.0	2739.8	2708.2	2705.1
37.5°	2605.6	2577.3	2587.4	2560.2	2559.0
40°	2497.3	2478.8	2481.5	2459.4	2453.2
42.5°	2396.5	2375.6	2378.3	2356.2	2354.9
45°	2242.2	2226.8	2226.5	2204.4	2204.4
47.5°	2078.5	2066.8	2063.3	2045.1	2044.4
50°	1965.1	1955.8	1952.5	1936.7	1933.6
52.5°	1846.7	1842.4	1831.6	1818.3	1817.7
55°	1662.8	1656.6	1640.7	1631.2	1628.1
57.5°	1463.1	1450.8	1432.9	1419.1	1421.5
60°	1319.5	1307.2	1281.7	1275.4	1275.4
62.5°	1180.9	1166.2	1140.6	1131.9	1136.9
65°	982.5	964.1	941.6	935.4	938.5
67.5°	802.4	785.8	761.5	761.4	759.0
70°	686.5	677.3	658.2	658.2	658.2
72.5°	583.2	578.9	565.0	564.9	562.4
75°	447.2	447.2	440.9	437.7	434.6
77.5°	335.1	336.3	333.2	329.9	324.4
80°	264.5	270.7	267.7	264.5	261.4
82.5°	199.0	205.2	204.7	199.0	198.4
85°	103.9	113.2	113.4	113.4	113.4
87.5°	28.5	39.8	45.2	45.7	47.8
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)