

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: P519574

Luminaire Tested: **SQ4-WB-150U-075D-830-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519574
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, G2-2009-966-13)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-WB-150U-075D-830-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

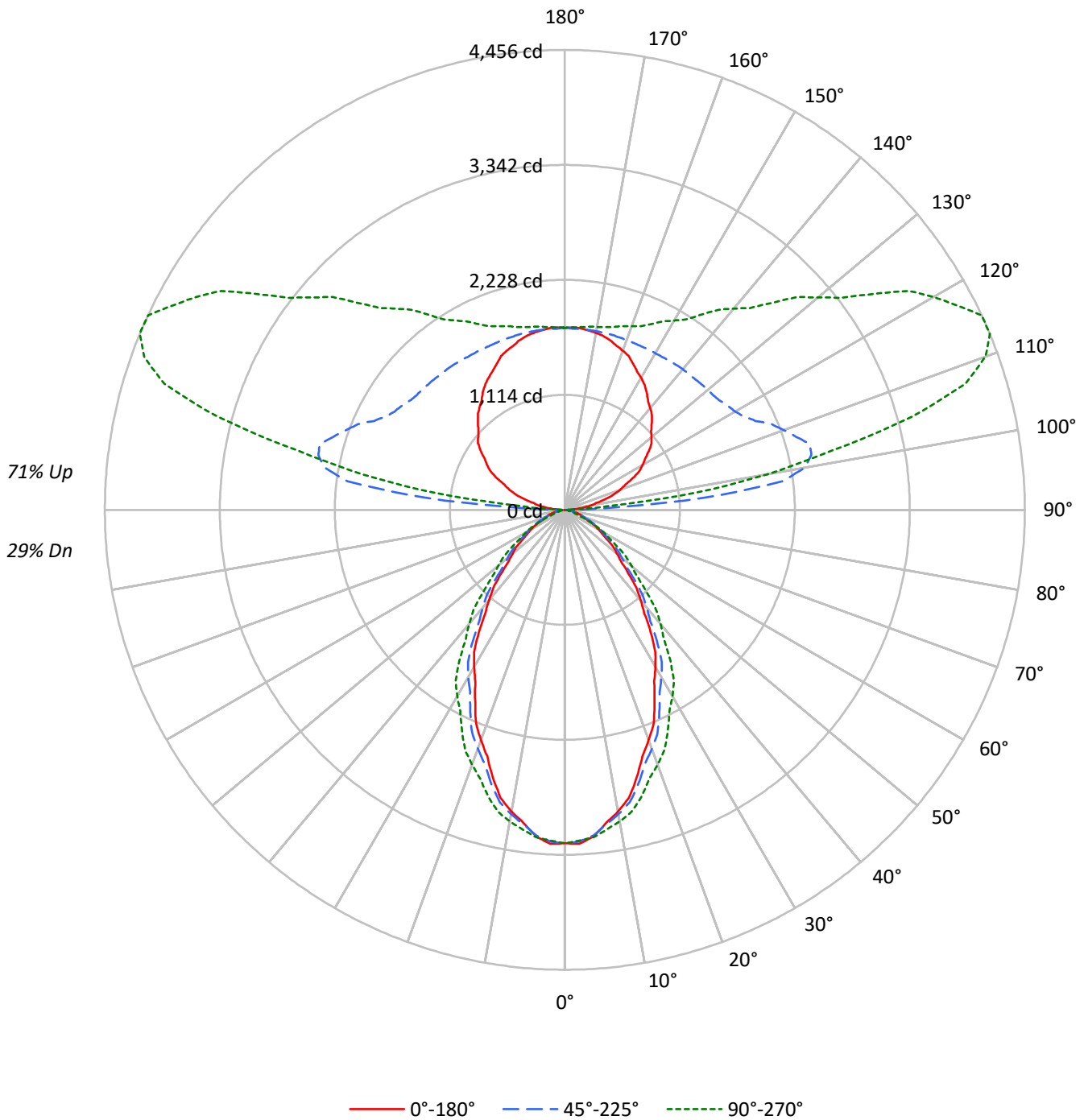
Lumens per Lamp: N/A
Luminaire Lumens: 16082.6 lumens
Efficiency: N/A
Efficacy: 122.7 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 131.1
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	92	92	92	92	72	72	72	54	54	54	37	37	37	29
1	94	90	86	83	84	81	78	75	64	62	60	48	47	46	34	33	33	26
2	86	79	74	69	77	71	67	63	57	54	51	43	41	39	31	29	28	23
3	79	70	64	58	71	63	58	53	51	47	44	39	36	34	28	26	25	20
4	72	63	55	50	65	57	50	46	45	41	38	35	32	30	25	24	22	18
5	67	56	49	43	60	51	44	40	41	36	33	32	29	26	23	21	20	16
6	62	50	43	38	55	46	39	35	37	32	29	29	26	23	21	19	18	15
7	57	46	38	33	51	42	35	31	34	29	26	26	23	21	20	18	16	13
8	53	41	34	29	48	38	32	27	31	26	23	24	21	19	18	16	15	12
9	49	38	31	26	44	35	29	24	28	24	21	22	19	17	17	15	13	11
10	46	35	28	24	42	32	26	22	26	22	19	21	18	15	16	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14901	14901	14901
5°	14716	14663	14748
10°	13903	14029	14354
15°	12835	13132	13721
20°	11655	12093	12893
25°	10454	11024	12012
30°	9347	9958	11099
35°	8174	8764	10017
40°	6880	7426	8672
45°	5678	6168	7240
50°	4740	5167	6032
55°	4024	4435	4982
60°	3440	3845	3976
65°	2739	3233	2568
70°	2428	2524	1567
75°	2248	2046	961
80°	2072	1884	829
85°	1874	1725	677



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.3	1.8
10°-20°	770.7	4.8
20°-30°	998.2	6.2
30°-40°	977.5	6.1
40°-50°	748.2	4.7
50°-60°	498.6	3.1
60°-70°	272.1	1.7
70°-80°	113.4	0.7
80°-90°	35.8	0.2
90°-100°	819.7	5.1
100°-110°	2216.3	13.8
110°-120°	2330.1	14.5
120°-130°	1892.7	11.8
130°-140°	1484.7	9.2
140°-150°	1139.5	7.1
150°-160°	819.5	5.1
160°-170°	500.6	3.1
170°-180°	168.8	1.0
0°-30°	2065.2	12.8
0°-40°	3042.7	18.9
0°-60°	4289.5	26.7
0°-90°	4710.7	29.3
90°-120°	5366.2	33.4
90°-150°	9883.0	61.5
90°-180°	11372.0	70.7
0°-180°	16082.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3230	3230	3230	3230	3230	
5°	3178	3146	3166	3174	3185	296
15°	2687	2678	2750	2824	2873	750
25°	2054	2059	2166	2260	2360	944
35°	1451	1458	1556	1661	1779	902
45°	870	887	945	1017	1110	679
55°	500	521	551	572	619	454
65°	251	272	296	259	235	261
75°	126	126	115	79	54	135
85°	35	35	33	21	13	39
90°	4	11	25	26	25	10
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°	3230.2	3230.2	3230.2	3230.2	3230.2
2.5°	3238.2	3209.3	3216.6	3216.4	3207.5
5°	3177.8	3145.9	3166.4	3173.8	3184.9
7.5°	3059.8	3035.7	3073.2	3100.9	3123.3
10°	2968.0	2947.2	2994.9	3035.3	3064.4
12.5°	2861.4	2844.0	2903.1	2957.2	2995.2
15°	2687.4	2677.7	2749.7	2824.5	2873.0
17.5°	2501.1	2496.4	2579.1	2666.4	2728.5
20°	2374.1	2372.7	2463.4	2554.3	2626.4
22.5°	2246.0	2249.0	2344.4	2438.9	2521.0
25°	2053.8	2059.3	2165.8	2260.2	2359.9
27.5°	1876.0	1878.5	1988.6	2088.2	2194.7
30°	1754.7	1761.6	1869.5	1972.7	2083.6
32.5°	1633.4	1641.4	1747.1	1853.7	1966.8
35°	1451.4	1458.3	1556.3	1661.0	1778.8
37.5°	1263.7	1273.2	1360.1	1459.1	1575.0
40°	1142.4	1156.3	1233.1	1326.4	1440.1
42.5°	1025.6	1042.8	1114.1	1202.6	1305.1
45°	870.3	886.9	945.4	1017.0	1109.8
47.5°	736.5	755.6	800.5	862.2	941.4
50°	660.5	678.5	720.0	765.7	840.5
52.5°	593.6	611.6	648.6	683.8	747.5
55°	500.3	521.1	551.4	572.3	619.4
57.5°	423.8	443.8	467.7	477.2	505.7
60°	372.8	394.9	416.7	415.6	430.9
62.5°	326.3	345.1	366.8	351.8	352.6
65°	250.9	271.7	296.2	258.8	235.3
67.5°	202.7	207.1	232.5	180.5	152.5
70°	180.0	180.0	187.1	139.8	116.2
72.5°	158.5	158.5	151.9	113.7	89.0
75°	126.1	126.1	114.8	78.8	53.9
77.5°	97.2	96.1	87.9	58.8	39.1
80°	78.0	78.0	70.9	46.4	31.2
82.5°	60.9	60.9	55.0	36.3	23.2
85°	35.4	35.4	32.6	21.1	12.8
87.5°	13.2	14.7	16.3	12.1	10.6
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)