

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: P519582

Luminaire Tested: **SQ4-WB-150U-075D-840-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519582
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-840-1D-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: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

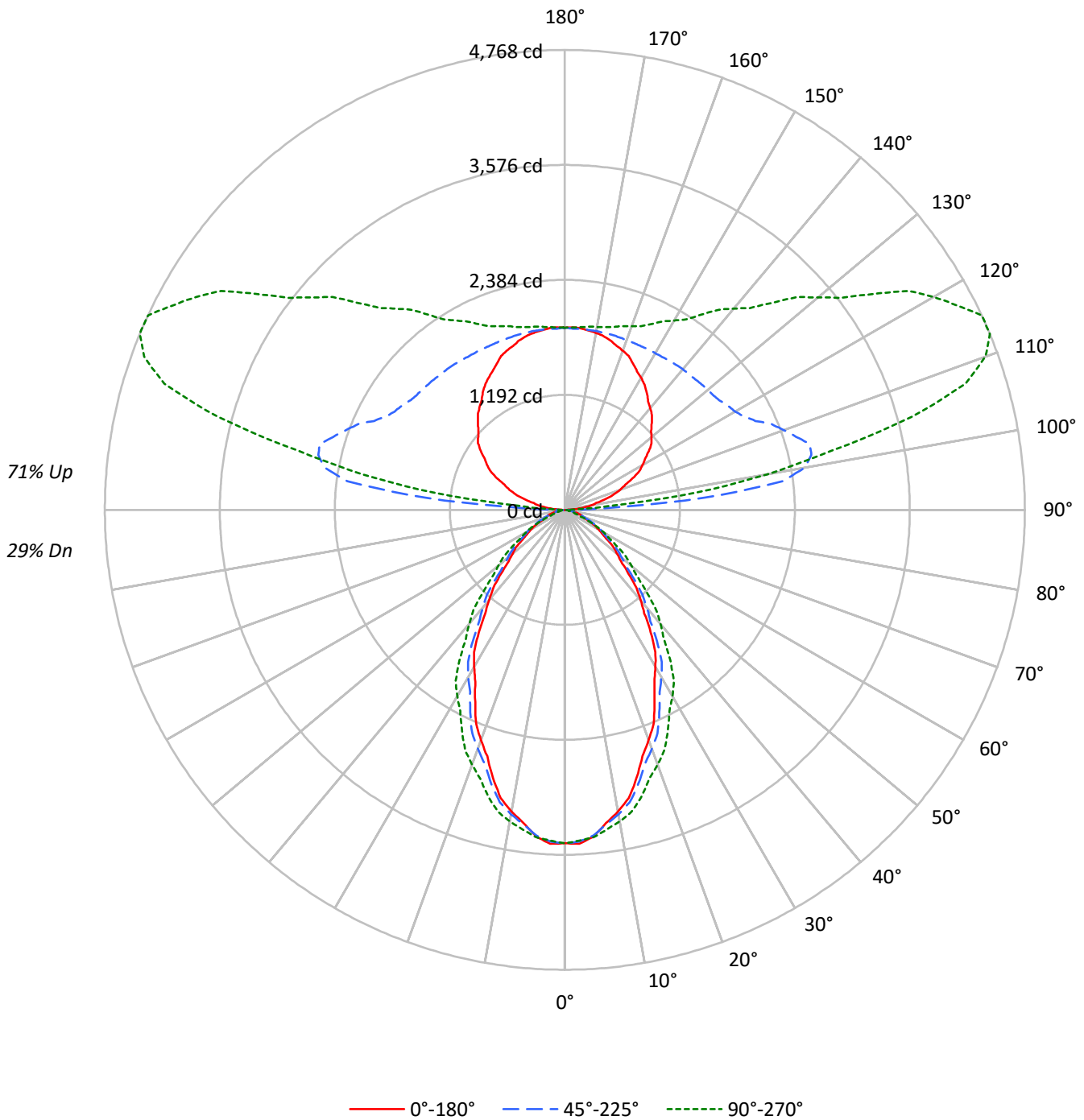
Lumens per Lamp: N/A
Luminaire Lumens: 17210.0 lumens
Efficiency: N/A
Efficacy: 131.3 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Indirect

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°	15946	15946	15946
5°	15747	15691	15782
10°	14878	15013	15361
15°	13734	14053	14683
20°	12472	12941	13797
25°	11187	11797	12854
30°	10002	10657	11877
35°	8746	9379	10720
40°	7362	7947	9280
45°	6076	6600	7748
50°	5072	5530	6455
55°	4306	4745	5331
60°	3680	4114	4254
65°	2931	3460	2749
70°	2598	2700	1678
75°	2406	2191	1027
80°	2216	2014	887
85°	2006	1847	725



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	317.1	1.8
10°-20°	824.7	4.8
20°-30°	1068.2	6.2
30°-40°	1046.0	6.1
40°-50°	800.7	4.7
50°-60°	533.5	3.1
60°-70°	291.1	1.7
70°-80°	121.3	0.7
80°-90°	38.3	0.2
90°-100°	877.2	5.1
100°-110°	2371.7	13.8
110°-120°	2493.5	14.5
120°-130°	2025.4	11.8
130°-140°	1588.7	9.2
140°-150°	1219.4	7.1
150°-160°	877.0	5.1
160°-170°	535.7	3.1
170°-180°	180.6	1.0
0°-30°	2209.9	12.8
0°-40°	3256.0	18.9
0°-60°	4590.2	26.7
0°-90°	5040.9	29.3
90°-120°	5742.4	33.4
90°-150°	10575.8	61.5
90°-180°	12169.0	70.7
0°-180°	17210.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3457	3457	3457	3457	3457	
5°	3400	3366	3388	3396	3408	316
15°	2876	2865	2942	3022	3074	803
25°	2198	2204	2318	2419	2525	1011
35°	1553	1561	1665	1778	1904	966
45°	931	949	1012	1088	1188	726
55°	535	558	590	612	663	485
65°	268	291	317	277	252	279
75°	135	135	123	84	58	144
85°	38	38	35	22	14	41
90°	4	12	26	28	26	11
95°	136	478	1459	755	449	142
105°	441	681	2631	3881	3722	464
115°	776	949	2182	4224	4768	766
125°	1063	1218	1967	3319	3899	947
135°	1274	1425	1914	2680	3033	984
145°	1481	1592	1888	2294	2468	927
155°	1672	1738	1871	2058	2125	771
165°	1820	1838	1879	1953	1963	513
175°	1890	1888	1881	1906	1902	179
180°	1888	1888	1888	1888	1888	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3456.7	3456.7	3456.7	3456.7	3456.7
2.5°	3465.2	3434.3	3442.1	3441.9	3432.4
5°	3400.5	3366.4	3388.4	3396.3	3408.1
7.5°	3274.4	3248.5	3288.6	3318.3	3342.3
10°	3176.1	3153.8	3204.9	3248.1	3279.2
12.5°	3062.0	3043.3	3106.6	3164.6	3205.2
15°	2875.8	2865.4	2942.5	3022.5	3074.4
17.5°	2676.5	2671.4	2759.9	2853.3	2919.7
20°	2540.6	2539.1	2636.1	2733.4	2810.5
22.5°	2403.4	2406.7	2508.7	2609.9	2697.7
25°	2197.8	2203.7	2317.6	2418.6	2525.4
27.5°	2007.6	2010.2	2128.0	2234.6	2348.5
30°	1877.7	1885.1	2000.6	2111.0	2229.6
32.5°	1747.9	1756.5	1869.5	1983.6	2104.6
35°	1553.1	1560.6	1665.4	1777.5	1903.5
37.5°	1352.3	1362.4	1455.5	1561.4	1685.4
40°	1222.5	1237.3	1319.6	1419.4	1541.0
42.5°	1097.5	1115.9	1192.2	1286.9	1396.6
45°	931.3	949.1	1011.7	1088.2	1187.6
47.5°	788.1	808.6	856.7	922.6	1007.4
50°	706.8	726.1	770.5	819.3	899.4
52.5°	635.2	654.5	694.1	731.7	799.9
55°	535.4	557.7	590.0	612.4	662.8
57.5°	453.5	474.9	500.5	510.6	541.2
60°	398.9	422.6	445.9	444.8	461.1
62.5°	349.2	369.3	392.5	376.5	377.4
65°	268.5	290.7	317.0	277.0	251.8
67.5°	216.9	221.6	248.7	193.2	163.2
70°	192.6	192.6	200.2	149.6	124.4
72.5°	169.6	169.6	162.6	121.6	95.3
75°	135.0	135.0	122.9	84.3	57.6
77.5°	104.0	102.9	94.0	62.9	41.9
80°	83.4	83.4	75.8	49.7	33.4
82.5°	65.2	65.2	58.8	38.8	24.9
85°	37.9	37.9	34.9	22.5	13.7
87.5°	14.2	15.7	17.4	12.9	11.3
90°	4.1	12.0	26.4	28.4	26.4
92.5°	57.7	210.3	414.9	180.1	130.4
95°	136.1	477.8	1458.8	754.9	449.0
97.5°	218.6	548.0	2273.9	1881.8	1382.0
100°	280.4	576.4	2527.4	2635.8	2131.3
102.5°	337.3	615.8	2616.8	3207.6	2830.2
105°	440.9	681.3	2631.1	3881.0	3722.1
107.5°	536.8	756.1	2516.1	4301.1	4354.0
110°	611.5	810.2	2413.7	4413.9	4638.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	678.2	864.1	2319.4	4391.4	4768.4
115°	776.1	948.9	2182.1	4224.1	4768.4
117.5°	872.0	1034.1	2091.4	3968.5	4585.6
120°	930.5	1089.4	2037.8	3785.2	4414.9
122.5°	985.8	1141.5	2005.3	3588.6	4223.1
125°	1062.6	1217.5	1966.7	3318.8	3898.8
127.5°	1133.3	1285.5	1943.9	3098.6	3608.7
130°	1172.3	1329.2	1934.2	2962.5	3423.4
132.5°	1212.9	1368.3	1924.4	2839.8	3264.1
135°	1273.9	1424.9	1913.9	2679.7	3033.3
137.5°	1335.2	1477.9	1904.9	2549.8	2837.9
140°	1377.5	1510.6	1901.7	2466.2	2722.5
142.5°	1418.1	1543.3	1895.2	2390.7	2615.2
145°	1481.1	1592.4	1887.5	2293.7	2468.5
147.5°	1538.4	1636.9	1878.5	2205.8	2340.1
150°	1580.7	1668.1	1875.3	2158.1	2265.4
152.5°	1619.7	1696.0	1873.6	2113.8	2202.0
155°	1672.1	1737.7	1871.2	2057.6	2125.2
157.5°	1726.5	1772.2	1871.6	2018.5	2063.0
160°	1757.4	1795.2	1873.2	1993.8	2025.6
162.5°	1781.8	1813.2	1874.9	1974.1	1998.0
165°	1820.4	1838.3	1879.3	1952.7	1962.6
167.5°	1846.8	1859.1	1879.7	1934.3	1939.1
170°	1863.1	1869.0	1881.4	1926.1	1926.1
172.5°	1876.1	1877.3	1881.4	1916.3	1914.7
175°	1889.5	1887.5	1881.4	1905.7	1901.7
177.5°	1894.0	1889.2	1881.0	1897.1	1892.3
180°	1887.5	1887.5	1887.5	1887.5	1887.5

(END OF REPORT)