

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: P519612

Luminaire Tested: **SQ4-WB-150U-100D-935-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P519612  
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-100D-935-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

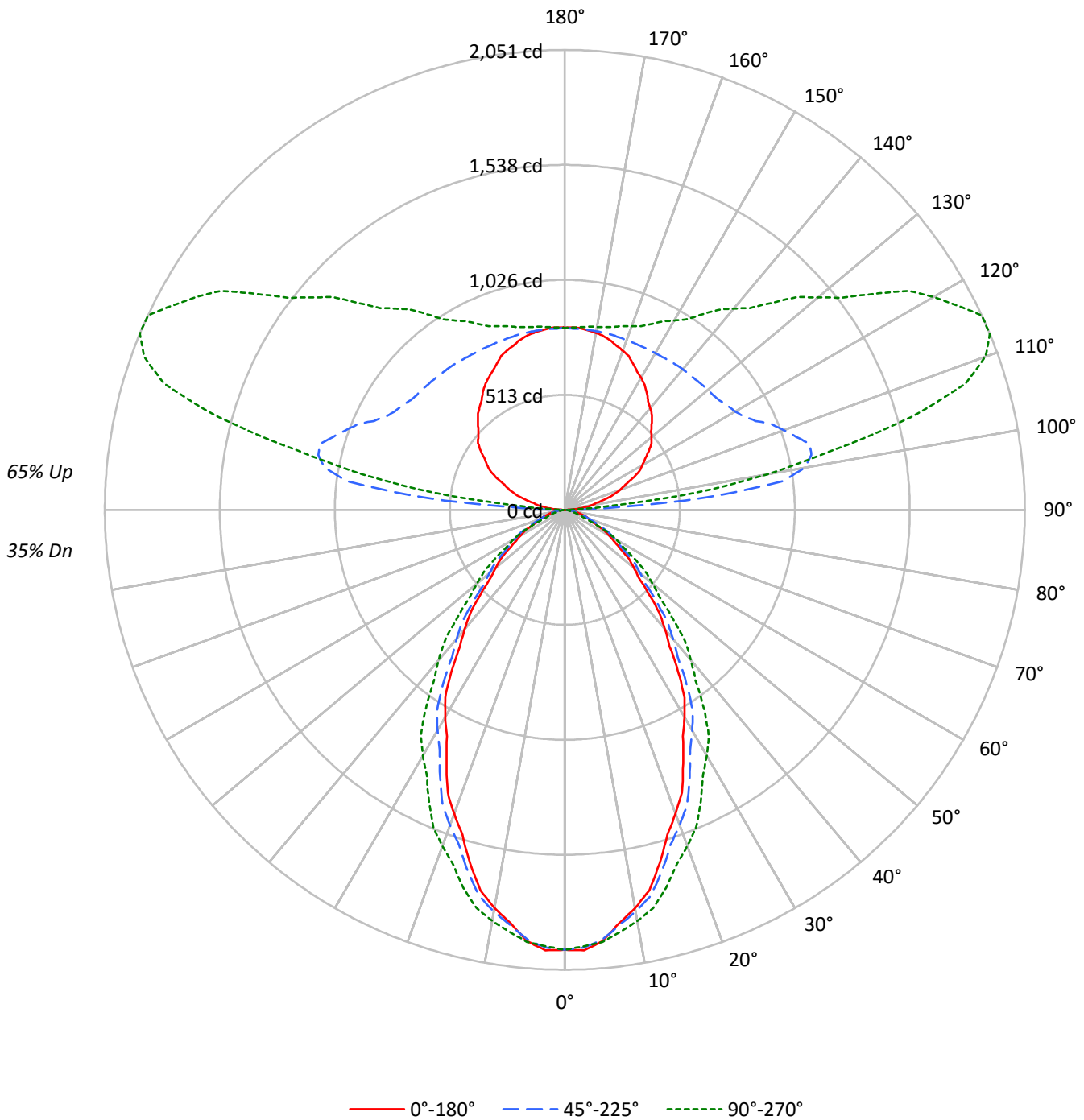
Lumens per Lamp: N/A  
Luminaire Lumens: 8094.8 lumens  
Efficiency: N/A  
Efficacy: 112.0 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 72.3  
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	104	104	104	104	94	94	94	94	75	75	75	58	58	58	43	43	43	35
1	95	91	88	85	86	83	80	77	67	65	63	52	51	50	39	38	38	31
2	87	81	75	71	79	73	69	65	60	56	54	47	45	43	35	34	33	28
3	80	72	65	60	73	65	60	55	53	49	46	42	40	37	32	30	29	24
4	74	64	57	51	67	58	52	47	48	44	40	38	35	33	29	27	26	22
5	68	57	50	44	62	53	46	41	43	39	35	35	31	29	27	25	23	20
6	63	52	44	39	57	47	41	36	39	35	31	32	28	26	25	22	21	18
7	58	47	40	34	53	43	37	32	36	31	28	29	26	23	23	20	19	16
8	54	43	36	31	49	39	33	29	33	28	25	27	23	21	21	19	17	15
9	51	39	32	27	46	36	30	26	30	26	22	25	21	19	20	17	16	13
10	47	36	29	25	43	33	27	23	28	23	20	23	20	17	18	16	14	12

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	18102	18102	18102
5°	17876	17813	17916
10°	16889	17042	17438
15°	15591	15953	16669
20°	14158	14691	15663
25°	12700	13392	14592
30°	11355	12097	13482
35°	9930	10647	12169
40°	8357	9021	10535
45°	6897	7492	8796
50°	5759	6277	7327
55°	4888	5387	6051
60°	4178	4670	4829
65°	3327	3927	3120
70°	2948	3064	1904
75°	2731	2485	1166
80°	2513	2285	1004
85°	2276	2096	815



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	180.0	2.2
10°-20°	468.1	5.8
20°-30°	606.3	7.5
30°-40°	593.7	7.3
40°-50°	454.5	5.6
50°-60°	302.8	3.7
60°-70°	165.2	2.0
70°-80°	68.8	0.9
80°-90°	21.2	0.3
90°-100°	377.3	4.7
100°-110°	1020.1	12.6
110°-120°	1072.5	13.2
120°-130°	871.2	10.8
130°-140°	683.3	8.4
140°-150°	524.5	6.5
150°-160°	377.2	4.7
160°-170°	230.4	2.8
170°-180°	77.7	1.0
0°-30°	1254.4	15.5
0°-40°	1848.1	22.8
0°-60°	2605.4	32.2
0°-90°	2860.7	35.3
90°-120°	2469.9	30.5
90°-150°	4548.9	56.2
90°-180°	5234.0	64.7
0°-180°	8094.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1962	1962	1962	1962	1962	
5°	1930	1911	1923	1928	1934	180
15°	1632	1626	1670	1716	1745	456
25°	1248	1251	1316	1373	1433	574
35°	882	886	945	1009	1080	548
45°	529	539	574	618	674	412
55°	304	316	335	348	376	276
65°	152	165	180	157	143	158
75°	77	77	70	48	33	82
85°	22	22	20	13	8	23
90°	2	5	11	12	11	5
95°	58	206	627	325	193	61
105°	190	293	1132	1669	1601	200
115°	334	408	938	1817	2051	330
125°	457	524	846	1428	1677	407
135°	548	613	823	1153	1305	423
145°	637	685	812	987	1062	399
155°	719	747	805	885	914	332
165°	783	791	808	840	844	221
175°	813	812	809	820	818	77
180°	812	812	812	812	812	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1962.0	1962.0	1962.0	1962.0	1962.0
2.5°	1966.8	1949.3	1953.7	1953.6	1948.2
5°	1930.1	1910.8	1923.3	1927.7	1934.5
7.5°	1858.5	1843.9	1866.6	1883.5	1897.1
10°	1802.7	1790.1	1819.1	1843.6	1861.3
12.5°	1738.0	1727.4	1763.3	1796.2	1819.3
15°	1632.3	1626.4	1670.2	1715.6	1745.1
17.5°	1519.2	1516.3	1566.5	1619.5	1657.2
20°	1442.0	1441.2	1496.3	1551.5	1595.3
22.5°	1364.2	1366.0	1423.9	1481.4	1531.2
25°	1247.5	1250.8	1315.5	1372.8	1433.4
27.5°	1139.5	1141.0	1207.8	1268.4	1333.0
30°	1065.8	1070.0	1135.5	1198.2	1265.5
32.5°	992.1	997.0	1061.2	1125.9	1194.6
35°	881.6	885.8	945.3	1008.9	1080.4
37.5°	767.6	773.3	826.1	886.3	956.6
40°	693.9	702.3	749.0	805.7	874.7
42.5°	623.0	633.4	676.7	730.4	792.7
45°	528.6	538.7	574.2	617.7	674.1
47.5°	447.3	458.9	486.2	523.7	571.8
50°	401.2	412.1	437.3	465.1	510.5
52.5°	360.5	371.5	394.0	415.3	454.0
55°	303.9	316.5	334.9	347.6	376.2
57.5°	257.4	269.5	284.1	289.8	307.2
60°	226.4	239.9	253.1	252.5	261.7
62.5°	198.2	209.6	222.8	213.7	214.2
65°	152.4	165.0	179.9	157.2	142.9
67.5°	123.1	125.8	141.2	109.6	92.6
70°	109.3	109.3	113.6	84.9	70.6
72.5°	96.2	96.2	92.3	69.0	54.1
75°	76.6	76.6	69.7	47.9	32.7
77.5°	59.1	58.4	53.4	35.7	23.8
80°	47.3	47.3	43.0	28.2	18.9
82.5°	37.0	37.0	33.4	22.0	14.1
85°	21.5	21.5	19.8	12.8	7.7
87.5°	7.9	8.6	9.2	6.6	5.7
90°	1.7	5.2	11.4	12.2	11.4
92.5°	24.8	90.4	178.4	77.5	56.1
95°	58.5	205.5	627.4	324.7	193.1
97.5°	94.0	235.7	978.0	809.4	594.4
100°	120.6	247.9	1087.1	1133.7	916.7
102.5°	145.1	264.9	1125.6	1379.7	1217.3
105°	189.6	293.0	1131.7	1669.3	1600.9
107.5°	230.9	325.2	1082.2	1850.0	1872.7
110°	263.0	348.5	1038.2	1898.5	1995.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	291.7	371.7	997.6	1888.8	2051.0
115°	333.8	408.2	938.5	1816.9	2051.0
117.5°	375.1	444.8	899.6	1706.9	1972.3
120°	400.2	468.6	876.5	1628.1	1898.9
122.5°	424.0	491.0	862.5	1543.5	1816.4
125°	457.0	523.7	845.9	1427.5	1677.0
127.5°	487.4	552.9	836.1	1332.8	1552.2
130°	504.2	571.7	831.9	1274.2	1472.5
132.5°	521.7	588.5	827.7	1221.5	1404.0
135°	547.9	612.9	823.2	1152.6	1304.7
137.5°	574.3	635.7	819.3	1096.7	1220.6
140°	592.5	649.7	817.9	1060.8	1171.0
142.5°	610.0	663.8	815.2	1028.3	1124.9
145°	637.1	684.9	811.8	986.6	1061.8
147.5°	661.7	704.1	808.0	948.8	1006.5
150°	679.9	717.5	806.6	928.2	974.4
152.5°	696.7	729.5	805.9	909.2	947.1
155°	719.2	747.4	804.8	885.0	914.1
157.5°	742.6	762.3	805.0	868.2	887.3
160°	755.9	772.1	805.7	857.6	871.3
162.5°	766.4	779.9	806.4	849.1	859.4
165°	783.0	790.7	808.3	839.9	844.2
167.5°	794.4	799.7	808.5	832.0	834.0
170°	801.3	803.9	809.2	828.4	828.4
172.5°	806.9	807.4	809.2	824.2	823.5
175°	812.7	811.8	809.2	819.7	817.9
177.5°	814.6	812.6	809.0	816.0	813.9
180°	811.8	811.8	811.8	811.8	811.8

(END OF REPORT)