

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: P519625

Luminaire Tested: **SQ4-WB-150U-125D-835-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P519625  
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-125D-835-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

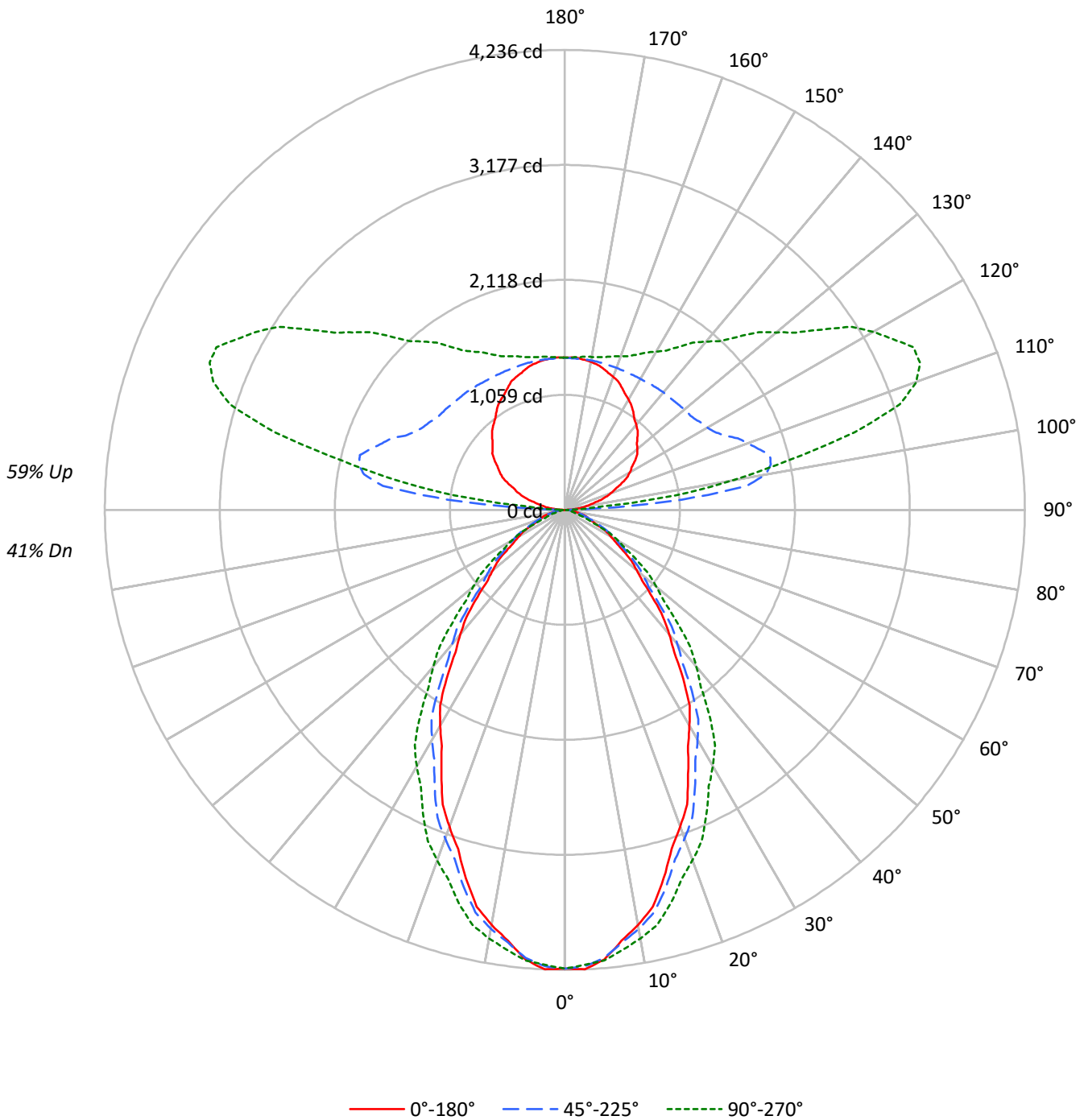
Lumens per Lamp: N/A  
Luminaire Lumens: 15196.3 lumens  
Efficiency: N/A  
Efficacy: 119.6 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 127.1  
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	105	105	105	105	96	96	96	96	78	78	78	62	62	62	47	47	47	41
1	97	93	89	86	88	85	82	79	70	68	66	56	55	53	43	43	42	36
2	89	82	76	72	81	75	70	66	62	59	56	50	48	46	39	38	37	32
3	82	73	66	61	74	67	61	57	56	52	48	45	43	40	36	34	32	28
4	75	65	58	52	68	60	54	49	50	46	42	41	38	35	33	31	29	25
5	69	59	51	46	63	54	48	43	45	41	37	37	34	31	30	28	26	22
6	64	53	45	40	59	49	42	38	41	36	33	34	31	28	28	25	23	20
7	59	48	41	35	54	45	38	33	38	33	29	31	28	25	25	23	21	18
8	55	44	37	32	51	41	34	30	35	30	26	29	25	23	24	21	19	17
9	52	40	33	28	47	37	31	27	32	27	24	27	23	21	22	19	18	15
10	48	37	30	26	44	34	28	24	30	25	22	25	21	19	21	18	16	14

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

	0°	45°	90°
0°	25991	25991	25991
5°	25667	25575	25723
10°	24250	24469	25036
15°	22385	22905	23932
20°	20329	21093	22489
25°	18233	19227	20951
30°	16303	17369	19358
35°	14256	15286	17472
40°	11999	12952	15126
45°	9902	10757	12629
50°	8268	9013	10521
55°	7019	7735	8689
60°	5998	6706	6934
65°	4777	5640	4480
70°	4235	4401	2734
75°	3921	3569	1675
80°	3613	3284	1445
85°	3275	3006	1179



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	387.6	2.6
10°-20°	1008.1	6.6
20°-30°	1305.8	8.6
30°-40°	1278.7	8.4
40°-50°	978.8	6.4
50°-60°	652.2	4.3
60°-70°	355.9	2.3
70°-80°	148.3	1.0
80°-90°	44.9	0.3
90°-100°	651.3	4.3
100°-110°	1761.1	11.6
110°-120°	1851.5	12.2
120°-130°	1503.9	9.9
130°-140°	1179.7	7.8
140°-150°	905.4	6.0
150°-160°	651.2	4.3
160°-170°	397.8	2.6
170°-180°	134.1	0.9
0°-30°	2701.5	17.8
0°-40°	3980.2	26.2
0°-60°	5611.2	36.9
0°-90°	6160.3	40.5
90°-120°	4263.9	28.1
90°-150°	7852.9	51.7
90°-180°	9036.0	59.5
0°-180°	15196.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4226	4226	4226	4226	4226	
5°	4157	4115	4142	4152	4166	387
15°	3515	3503	3597	3695	3758	982
25°	2687	2694	2833	2957	3087	1236
35°	1899	1908	2036	2173	2327	1180
45°	1138	1160	1237	1330	1452	888
55°	654	682	721	749	810	593
65°	328	355	388	339	308	341
75°	165	165	150	103	70	176
85°	46	46	43	28	17	50
90°	3	9	20	21	20	9
95°	101	355	1083	561	333	106
105°	327	506	1954	2882	2764	345
115°	576	705	1620	3136	3541	569
125°	789	904	1460	2464	2895	703
135°	946	1058	1421	1990	2252	731
145°	1100	1182	1402	1703	1833	688
155°	1242	1290	1389	1528	1578	573
165°	1352	1365	1396	1450	1457	381
175°	1403	1402	1397	1415	1412	133
180°	1402	1402	1402	1402	1402	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4225.6	4225.6	4225.6	4225.6	4225.6
2.5°	4236.0	4198.2	4207.8	4207.5	4195.9
5°	4157.0	4115.3	4142.1	4151.7	4166.2
7.5°	4002.7	3971.2	4020.1	4056.4	4085.8
10°	3882.6	3855.4	3917.8	3970.6	4008.6
12.5°	3743.1	3720.3	3797.6	3868.5	3918.2
15°	3515.4	3502.7	3597.0	3694.9	3758.3
17.5°	3271.8	3265.6	3373.8	3488.0	3569.2
20°	3105.7	3103.9	3222.5	3341.4	3435.7
22.5°	2938.1	2942.0	3066.7	3190.4	3297.8
25°	2686.6	2693.9	2833.1	2956.6	3087.1
27.5°	2454.1	2457.4	2601.3	2731.7	2870.9
30°	2295.4	2304.5	2445.6	2580.5	2725.6
32.5°	2136.7	2147.2	2285.4	2424.9	2572.8
35°	1898.6	1907.7	2035.8	2172.8	2326.9
37.5°	1653.1	1665.5	1779.2	1908.8	2060.3
40°	1494.4	1512.6	1613.1	1735.1	1883.8
42.5°	1341.7	1364.1	1457.3	1573.1	1707.3
45°	1138.4	1160.2	1236.7	1330.3	1451.8
47.5°	963.4	988.4	1047.2	1127.8	1231.5
50°	864.0	887.6	941.9	1001.6	1099.5
52.5°	776.5	800.1	848.5	894.5	977.9
55°	654.5	681.7	721.3	748.6	810.3
57.5°	554.4	580.5	611.9	624.2	661.6
60°	487.6	516.6	545.1	543.7	563.7
62.5°	426.8	451.5	479.8	460.2	461.3
65°	328.2	355.4	387.5	338.6	307.8
67.5°	265.1	270.9	304.1	236.1	199.5
70°	235.5	235.5	244.7	182.9	152.0
72.5°	207.3	207.3	198.8	148.7	116.4
75°	165.0	165.0	150.2	103.1	70.5
77.5°	127.2	125.7	115.0	76.9	51.2
80°	102.0	102.0	92.7	60.7	40.8
82.5°	79.7	79.7	71.9	47.4	30.4
85°	46.4	46.4	42.6	27.6	16.7
87.5°	16.9	18.1	18.8	13.1	11.3
90°	3.0	8.9	19.6	21.1	19.6
92.5°	42.8	156.1	308.1	133.7	96.9
95°	101.1	354.8	1083.2	560.6	333.4
97.5°	162.3	406.9	1688.4	1397.3	1026.2
100°	208.2	428.0	1876.7	1957.2	1582.5
102.5°	250.4	457.2	1943.1	2381.7	2101.5
105°	327.4	505.9	1953.6	2881.8	2763.8
107.5°	398.6	561.4	1868.3	3193.7	3232.9
110°	454.1	601.6	1792.2	3277.5	3444.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	503.6	641.6	1722.2	3260.7	3540.7
115°	576.3	704.6	1620.2	3136.5	3540.7
117.5°	647.5	767.9	1553.0	2946.8	3404.9
120°	690.9	808.9	1513.1	2810.6	3278.2
122.5°	732.0	847.6	1489.0	2664.6	3135.8
125°	789.0	904.1	1460.3	2464.3	2895.0
127.5°	841.5	954.5	1443.4	2300.8	2679.6
130°	870.5	987.0	1436.2	2199.8	2542.0
132.5°	900.6	1016.0	1428.9	2108.6	2423.7
135°	945.9	1058.0	1421.1	1989.8	2252.3
137.5°	991.5	1097.4	1414.5	1893.3	2107.2
140°	1022.8	1121.7	1412.1	1831.2	2021.5
142.5°	1053.0	1145.9	1407.2	1775.2	1941.9
145°	1099.8	1182.4	1401.5	1703.1	1833.0
147.5°	1142.3	1215.5	1394.9	1637.9	1737.6
150°	1173.7	1238.6	1392.4	1602.4	1682.1
152.5°	1202.7	1259.3	1391.2	1569.5	1635.0
155°	1241.6	1290.3	1389.4	1527.8	1578.0
157.5°	1282.0	1315.9	1389.7	1498.8	1531.8
160°	1304.9	1333.0	1390.9	1480.5	1504.1
162.5°	1323.0	1346.3	1392.1	1465.9	1483.6
165°	1351.7	1365.0	1395.5	1449.9	1457.3
167.5°	1371.3	1380.5	1395.8	1436.3	1439.8
170°	1383.4	1387.8	1397.0	1430.2	1430.2
172.5°	1393.0	1393.9	1397.0	1422.9	1421.7
175°	1403.0	1401.5	1397.0	1415.0	1412.1
177.5°	1406.3	1402.8	1396.7	1408.7	1405.1
180°	1401.5	1401.5	1401.5	1401.5	1401.5

(END OF REPORT)