

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: P519634

Luminaire Tested: **SQ4-WB-150U-125D-930-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P519634  
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-930-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

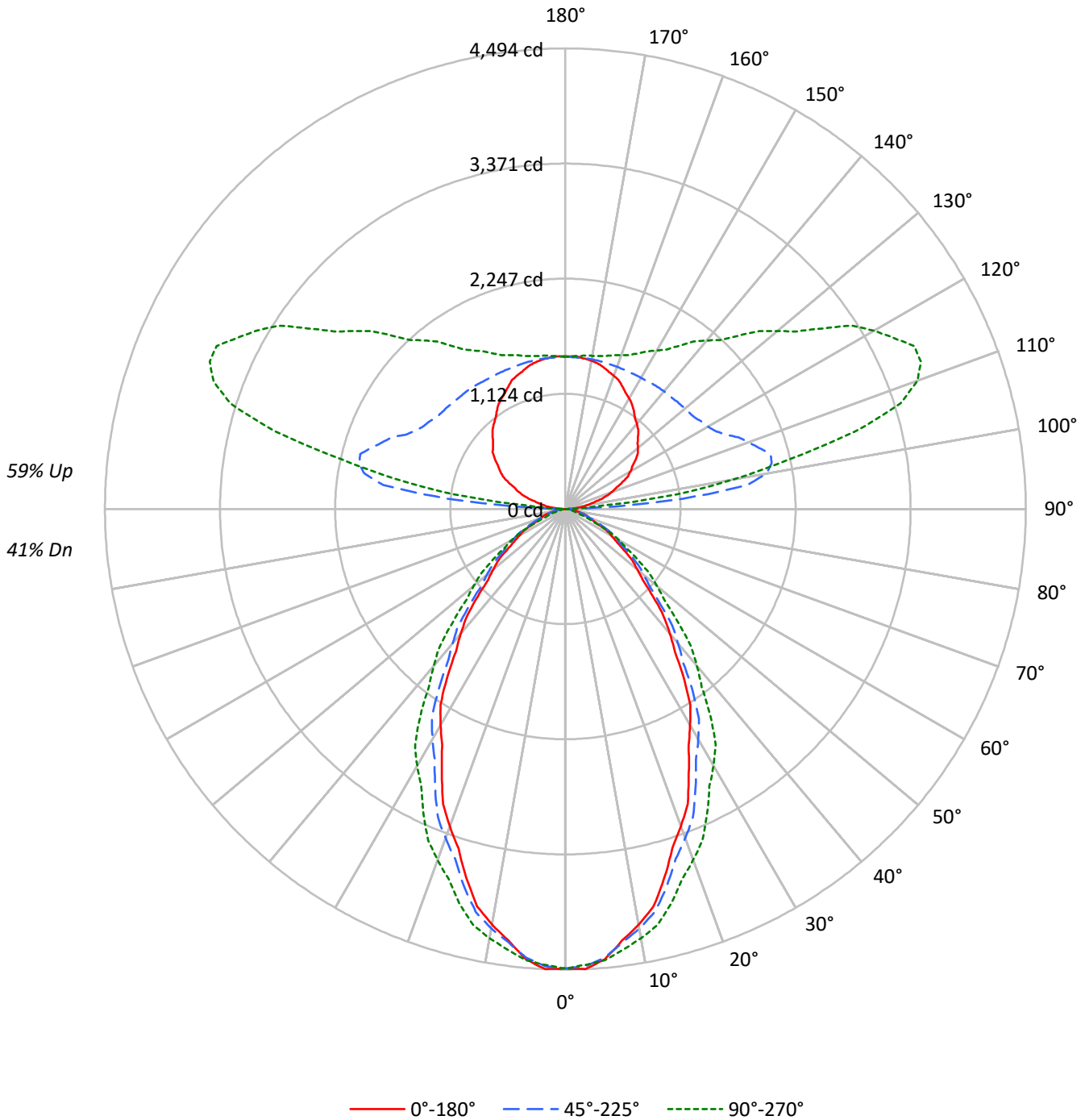
Lumens per Lamp: N/A  
Luminaire Lumens: 16123.4 lumens  
Efficiency: N/A  
Efficacy: 96.1 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: General Diffuse

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	50	30	10	0	
RCR																						
0	105	105	105	105	96	96	96	96	78	78	78	62	62	62	47	47	47	47	47	47	41	
1	97	93	89	86	88	85	82	79	70	68	66	56	55	53	43	43	42	42	42	42	36	
2	89	82	76	72	81	75	70	66	62	59	56	50	48	46	39	38	37	37	37	37	32	
3	82	73	66	61	74	67	61	57	56	52	48	45	43	40	36	34	32	32	32	32	28	
4	75	65	58	52	68	60	54	49	50	46	42	41	38	35	33	31	29	29	29	25	25	
5	69	59	51	46	63	54	48	43	45	41	37	37	34	31	30	28	26	26	26	22	22	
6	64	53	45	40	59	49	42	38	41	36	33	34	31	28	28	25	23	23	23	20	20	
7	59	48	41	35	54	45	38	33	38	33	29	31	28	25	25	23	21	21	21	18	18	
8	55	44	37	32	51	41	34	30	35	30	26	29	25	23	24	21	19	19	19	17	17	
9	52	40	33	28	47	37	31	27	32	27	24	27	23	21	22	19	18	18	18	15	15	
10	48	37	30	26	44	34	28	24	30	25	22	25	21	19	21	18	16	16	16	14	14	

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

	0°	45°	90°
0°	20682	20682	20682
5°	20424	20351	20470
10°	19296	19472	19923
15°	17813	18227	19044
20°	16176	16785	17895
25°	14509	15301	16672
30°	12973	13822	15404
35°	11345	12164	13904
40°	9548	10307	12036
45°	7880	8561	10049
50°	6579	7172	8372
55°	5585	6155	6914
60°	4774	5336	5517
65°	3801	4488	3565
70°	3369	3503	2176
75°	3121	2839	1333
80°	2874	2614	1150
85°	2604	2392	937



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	411.2	2.6
10°-20°	1069.6	6.6
20°-30°	1385.5	8.6
30°-40°	1356.7	8.4
40°-50°	1038.5	6.4
50°-60°	692.0	4.3
60°-70°	377.6	2.3
70°-80°	157.3	1.0
80°-90°	47.7	0.3
90°-100°	691.1	4.3
100°-110°	1868.5	11.6
110°-120°	1964.4	12.2
120°-130°	1595.6	9.9
130°-140°	1251.7	7.8
140°-150°	960.7	6.0
150°-160°	690.9	4.3
160°-170°	422.1	2.6
170°-180°	142.3	0.9
0°-30°	2866.3	17.8
0°-40°	4223.1	26.2
0°-60°	5953.6	36.9
0°-90°	6536.2	40.5
90°-120°	4524.0	28.1
90°-150°	8331.9	51.7
90°-180°	9587.0	59.5
0°-180°	16123.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4483	4483	4483	4483	4483	
5°	4411	4366	4395	4405	4420	410
15°	3730	3716	3816	3920	3988	1042
25°	2850	2858	3006	3137	3276	1311
35°	2014	2024	2160	2305	2469	1252
45°	1208	1231	1312	1412	1540	942
55°	694	723	765	794	860	630
65°	348	377	411	359	327	362
75°	175	175	159	109	75	187
85°	49	49	45	29	18	54
90°	3	10	21	22	21	10
95°	107	376	1149	595	354	112
105°	347	537	2073	3058	2932	366
115°	611	748	1719	3328	3757	604
125°	837	959	1549	2615	3072	746
135°	1004	1122	1508	2111	2390	776
145°	1167	1254	1487	1807	1945	730
155°	1317	1369	1474	1621	1674	608
165°	1434	1448	1481	1538	1546	404
175°	1489	1487	1482	1501	1498	141
180°	1487	1487	1487	1487	1487	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4483.4	4483.4	4483.4	4483.4	4483.4
2.5°	4494.4	4454.4	4464.5	4464.2	4451.9
5°	4410.6	4366.3	4394.8	4405.0	4420.4
7.5°	4246.9	4213.4	4265.4	4303.9	4335.0
10°	4119.4	4090.6	4156.8	4212.8	4253.2
12.5°	3971.5	3947.2	4029.3	4104.5	4157.2
15°	3729.9	3716.4	3816.5	3920.3	3987.6
17.5°	3471.4	3464.9	3579.6	3700.8	3787.0
20°	3295.1	3293.2	3419.1	3545.3	3645.3
22.5°	3117.3	3121.5	3253.8	3385.1	3498.9
25°	2850.5	2858.2	3006.0	3137.0	3275.5
27.5°	2603.8	2607.3	2760.0	2898.4	3046.1
30°	2435.5	2445.1	2594.8	2738.0	2891.9
32.5°	2267.1	2278.2	2424.8	2572.8	2729.8
35°	2014.5	2024.1	2160.0	2305.4	2468.9
37.5°	1754.0	1767.1	1887.8	2025.2	2186.0
40°	1585.6	1604.8	1711.5	1841.0	1998.7
42.5°	1423.5	1447.4	1546.3	1669.1	1811.4
45°	1207.9	1231.0	1312.2	1411.5	1540.4
47.5°	1022.2	1048.7	1111.1	1196.6	1306.6
50°	916.7	941.7	999.4	1062.7	1166.6
52.5°	823.9	848.9	900.2	949.0	1037.5
55°	694.4	723.3	765.3	794.3	859.7
57.5°	588.2	615.9	649.2	662.3	701.9
60°	517.4	548.2	578.4	576.9	598.0
62.5°	452.9	479.0	509.1	488.3	489.5
65°	348.2	377.1	411.2	359.3	326.6
67.5°	281.3	287.5	322.6	250.5	211.7
70°	249.8	249.8	259.7	194.0	161.3
72.5°	219.9	219.9	210.9	157.8	123.5
75°	175.1	175.1	159.3	109.4	74.8
77.5°	135.0	133.4	122.0	81.6	54.3
80°	108.2	108.2	98.4	64.4	43.3
82.5°	84.6	84.6	76.3	50.3	32.3
85°	49.2	49.2	45.2	29.2	17.7
87.5°	18.0	19.2	19.9	13.9	12.0
90°	3.2	9.5	20.8	22.4	20.8
92.5°	45.5	165.7	326.8	141.9	102.8
95°	107.2	376.4	1149.3	594.8	353.7
97.5°	172.2	431.7	1791.4	1482.5	1088.8
100°	220.9	454.1	1991.2	2076.6	1679.1
102.5°	265.7	485.1	2061.6	2527.0	2229.7
105°	347.3	536.7	2072.8	3057.6	2932.4
107.5°	422.9	595.7	1982.2	3388.5	3430.2
110°	481.8	638.3	1901.6	3477.4	3654.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	534.3	680.8	1827.3	3459.6	3756.7
115°	611.4	747.6	1719.1	3327.9	3756.7
117.5°	687.0	814.7	1647.7	3126.5	3612.6
120°	733.1	858.3	1605.4	2982.1	3478.2
122.5°	776.6	899.3	1579.8	2827.2	3327.1
125°	837.1	959.2	1549.4	2614.6	3071.6
127.5°	892.8	1012.7	1531.5	2441.1	2843.0
130°	923.6	1047.2	1523.8	2334.0	2697.1
132.5°	955.6	1078.0	1516.1	2237.3	2571.6
135°	1003.6	1122.5	1507.8	2111.2	2389.7
137.5°	1051.9	1164.3	1500.8	2008.8	2235.8
140°	1085.2	1190.1	1498.2	1943.0	2144.9
142.5°	1117.2	1215.8	1493.1	1883.5	2060.3
145°	1166.9	1254.5	1487.0	1807.0	1944.8
147.5°	1212.0	1289.6	1479.9	1737.8	1843.6
150°	1245.3	1314.2	1477.4	1700.2	1784.7
152.5°	1276.0	1336.1	1476.1	1665.3	1734.8
155°	1317.3	1369.0	1474.2	1621.1	1674.3
157.5°	1360.2	1396.2	1474.5	1590.2	1625.3
160°	1384.5	1414.3	1475.8	1570.8	1595.8
162.5°	1403.8	1428.5	1477.1	1555.3	1574.1
165°	1434.2	1448.3	1480.6	1538.4	1546.2
167.5°	1455.0	1464.7	1480.9	1523.9	1527.6
170°	1467.8	1472.5	1482.2	1517.4	1517.4
172.5°	1478.0	1479.0	1482.2	1509.7	1508.4
175°	1488.6	1487.0	1482.2	1501.3	1498.2
177.5°	1492.1	1488.4	1481.9	1494.6	1490.8
180°	1487.0	1487.0	1487.0	1487.0	1487.0

(END OF REPORT)