

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: P519493

Luminaire Tested: **SQ4-WB-125U-075D-935-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P519493  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, 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-125U-075D-935-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

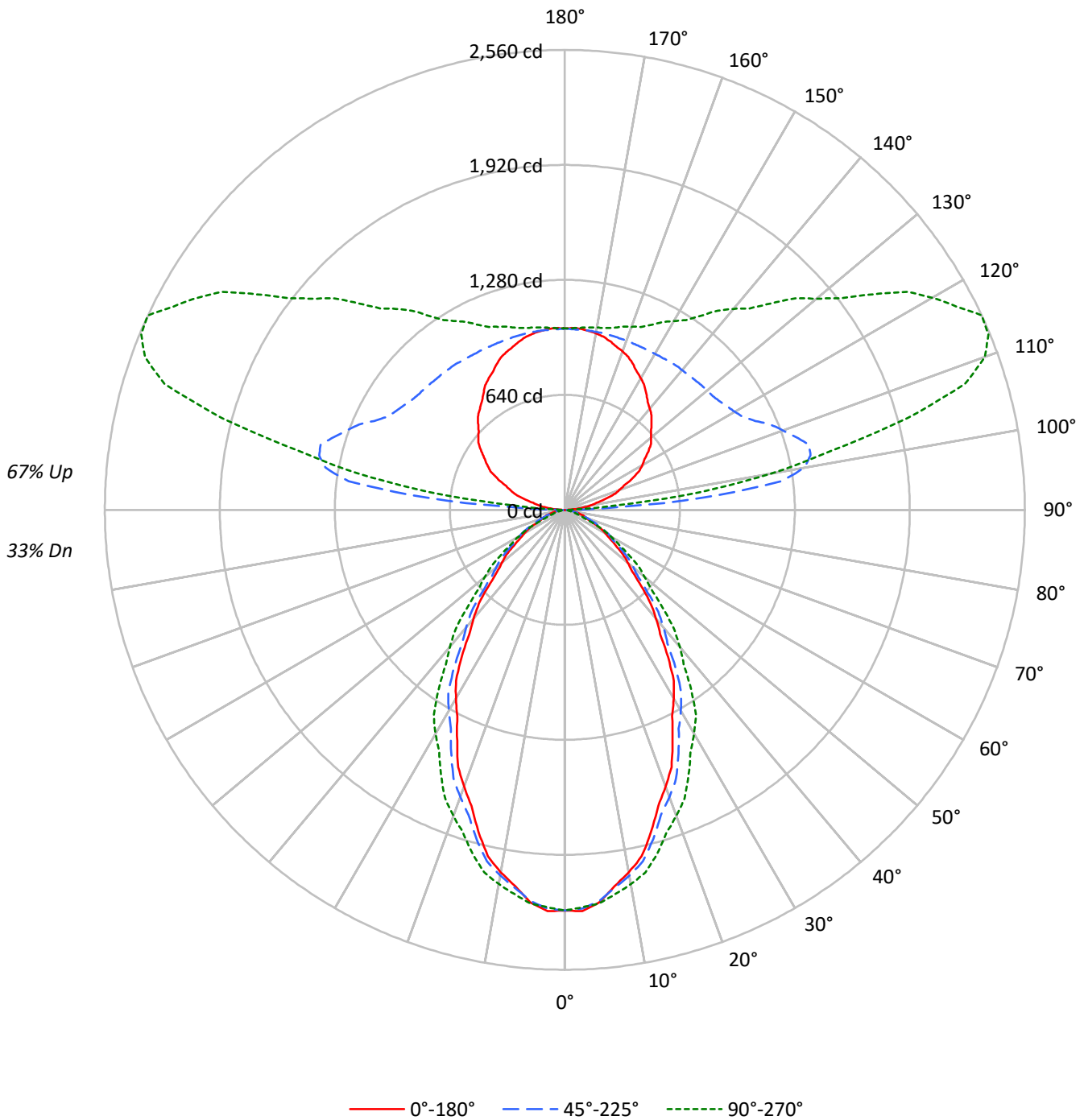
Lumens per Lamp: N/A  
Luminaire Lumens: 9768.0 lumens  
Efficiency: N/A  
Efficacy: 111.1 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 87.9  
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	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41	33
1	95	91	87	84	85	82	79	77	66	64	62	51	50	49	37	36	36	30
2	87	80	75	70	78	73	68	64	59	55	53	46	44	42	34	32	31	26
3	80	71	65	59	72	65	59	54	52	48	45	41	38	36	31	29	28	23
4	73	63	56	51	66	58	52	47	47	43	39	37	34	32	28	26	25	21
5	68	57	49	44	61	52	45	41	42	38	34	34	31	28	26	24	22	18
6	62	51	44	38	56	47	40	36	39	34	30	31	27	25	23	21	20	17
7	58	46	39	34	52	43	36	32	35	30	27	28	25	22	22	19	18	15
8	54	42	35	30	49	39	33	28	32	27	24	26	23	20	20	18	16	14
9	50	39	32	27	45	36	29	25	30	25	22	24	21	18	19	16	15	13
10	47	36	29	24	43	33	27	23	27	23	20	22	19	17	17	15	14	12

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

	0°	45°	90°
0°	13718	13718	13718
5°	13546	13498	13576
10°	12798	12914	13214
15°	11815	12089	12631
20°	10729	11133	11869
25°	9623	10148	11058
30°	8604	9167	10217
35°	7525	8068	9221
40°	6333	6836	7983
45°	5226	5678	6665
50°	4363	4757	5553
55°	3704	4082	4585
60°	3166	3539	3660
65°	2521	2976	2364
70°	2235	2323	1442
75°	2070	1885	884
80°	1906	1732	762
85°	1729	1588	621



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	204.6	2.1
10°-20°	532.1	5.4
20°-30°	689.2	7.1
30°-40°	674.9	6.9
40°-50°	516.6	5.3
50°-60°	344.2	3.5
60°-70°	187.8	1.9
70°-80°	78.3	0.8
80°-90°	24.5	0.3
90°-100°	472.2	4.8
100°-110°	1271.9	13.0
110°-120°	1334.8	13.7
120°-130°	1083.2	11.1
130°-140°	849.5	8.7
140°-150°	652.2	6.7
150°-160°	468.9	4.8
160°-170°	286.5	2.9
170°-180°	96.6	1.0
0°-30°	1425.8	14.6
0°-40°	2100.7	21.5
0°-60°	2961.5	30.3
0°-90°	3252.1	33.3
90°-120°	3078.9	31.5
90°-150°	5663.8	58.0
90°-180°	6516.0	66.7
0°-180°	9768.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2230	2230	2230	2230	2230	
5°	2194	2172	2186	2191	2199	204
15°	1855	1849	1898	1950	1984	518
25°	1418	1422	1495	1560	1629	652
35°	1002	1007	1074	1147	1228	623
45°	601	612	653	702	766	469
55°	345	360	381	395	428	313
65°	173	188	204	179	162	180
75°	87	87	79	54	37	93
85°	24	24	22	14	9	27
90°	3	8	15	17	17	6
95°	72	257	774	396	274	75
105°	235	366	1407	2104	1975	247
115°	415	508	1171	2263	2560	409
125°	567	651	1052	1778	2092	506
135°	683	762	1022	1434	1624	527
145°	790	851	1009	1226	1317	495
155°	896	929	1000	1100	1135	413
165°	972	983	1004	1044	1049	274
175°	1011	1009	1006	1020	1017	96
180°	1009	1009	1009	1009	1009	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2230.2	2230.2	2230.2	2230.2	2230.2
2.5°	2235.6	2215.7	2220.8	2220.6	2214.5
5°	2194.0	2171.9	2186.1	2191.2	2198.8
7.5°	2112.5	2095.9	2121.7	2140.9	2156.4
10°	2049.1	2034.8	2067.7	2095.6	2115.7
12.5°	1975.5	1963.5	2004.3	2041.7	2067.9
15°	1855.4	1848.7	1898.4	1950.1	1983.6
17.5°	1726.8	1723.5	1780.6	1840.9	1883.7
20°	1639.1	1638.1	1700.8	1763.5	1813.3
22.5°	1550.6	1552.7	1618.6	1683.8	1740.5
25°	1417.9	1421.8	1495.3	1560.4	1629.3
27.5°	1295.2	1297.0	1372.9	1441.7	1515.2
30°	1211.5	1216.3	1290.7	1362.0	1438.5
32.5°	1127.7	1133.3	1206.2	1279.8	1357.9
35°	1002.1	1006.8	1074.5	1146.8	1228.1
37.5°	872.5	879.0	939.0	1007.4	1087.4
40°	788.7	798.3	851.4	915.8	994.2
42.5°	708.1	720.0	769.2	830.3	901.1
45°	600.8	612.3	652.7	702.1	766.2
47.5°	508.5	521.7	552.7	595.2	650.0
50°	456.0	468.5	497.1	528.6	580.3
52.5°	409.8	422.3	447.8	472.1	516.1
55°	345.4	359.8	380.7	395.1	427.6
57.5°	292.6	306.4	322.9	329.4	349.2
60°	257.4	272.7	287.7	287.0	297.5
62.5°	225.3	238.3	253.3	242.9	243.5
65°	173.2	187.6	204.5	178.7	162.4
67.5°	139.9	143.0	160.5	124.6	105.3
70°	124.3	124.3	129.2	96.5	80.2
72.5°	109.4	109.4	104.9	78.5	61.5
75°	87.1	87.1	79.3	54.4	37.2
77.5°	67.1	66.4	60.7	40.6	27.0
80°	53.8	53.8	48.9	32.1	21.5
82.5°	42.1	42.1	38.0	25.0	16.0
85°	24.5	24.5	22.5	14.5	8.8
87.5°	9.1	10.1	10.9	8.0	7.3
90°	2.6	7.6	15.4	16.7	16.7
92.5°	31.4	110.8	219.1	105.5	73.3
95°	72.0	256.8	774.0	395.8	273.9
97.5°	114.9	294.0	1214.0	1014.2	764.8
100°	147.9	308.8	1353.9	1416.6	1175.2
102.5°	179.8	329.6	1400.2	1717.9	1519.8
105°	235.3	366.0	1406.6	2104.4	1974.9
107.5°	287.8	404.4	1346.7	2303.1	2336.5
110°	322.7	433.4	1292.2	2364.7	2486.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	359.8	462.3	1239.7	2351.1	2551.5
115°	415.3	508.3	1171.3	2263.3	2560.0
117.5°	466.0	553.2	1118.4	2123.1	2453.5
120°	498.9	583.1	1091.6	2022.5	2362.0
122.5°	527.7	610.9	1072.1	1919.6	2258.1
125°	567.0	651.3	1051.8	1777.6	2091.9
127.5°	604.8	687.8	1038.9	1652.4	1933.0
130°	627.5	710.4	1033.8	1580.7	1827.1
132.5°	650.1	732.1	1028.6	1517.5	1743.8
135°	682.7	761.9	1022.2	1434.1	1623.9
137.5°	713.9	789.8	1018.8	1363.4	1519.3
140°	735.5	808.4	1015.8	1319.8	1460.6
142.5°	758.1	826.0	1013.7	1279.2	1397.9
145°	789.5	851.1	1009.3	1226.1	1316.6
147.5°	823.4	877.0	1005.0	1181.4	1252.6
150°	846.0	892.6	1002.9	1153.4	1212.5
152.5°	866.6	907.1	1001.9	1130.5	1178.5
155°	896.2	928.9	1000.3	1100.1	1135.3
157.5°	922.2	947.5	1000.6	1078.8	1102.4
160°	938.6	960.0	1001.6	1066.3	1083.9
162.5°	953.0	970.4	1002.6	1055.9	1068.5
165°	972.0	983.4	1004.2	1044.2	1049.2
167.5°	987.5	994.0	1005.5	1035.1	1037.1
170°	997.8	1000.3	1005.5	1029.9	1029.9
172.5°	1003.9	1004.4	1006.5	1024.8	1024.8
175°	1010.6	1009.4	1005.5	1019.6	1017.0
177.5°	1013.4	1011.4	1006.2	1014.4	1012.4
180°	1009.3	1009.3	1009.3	1009.3	1009.3

(END OF REPORT)