

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: P519477

Luminaire Tested: **SQ4-WB-125U-075D-830-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P519477  
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-830-1D-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: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

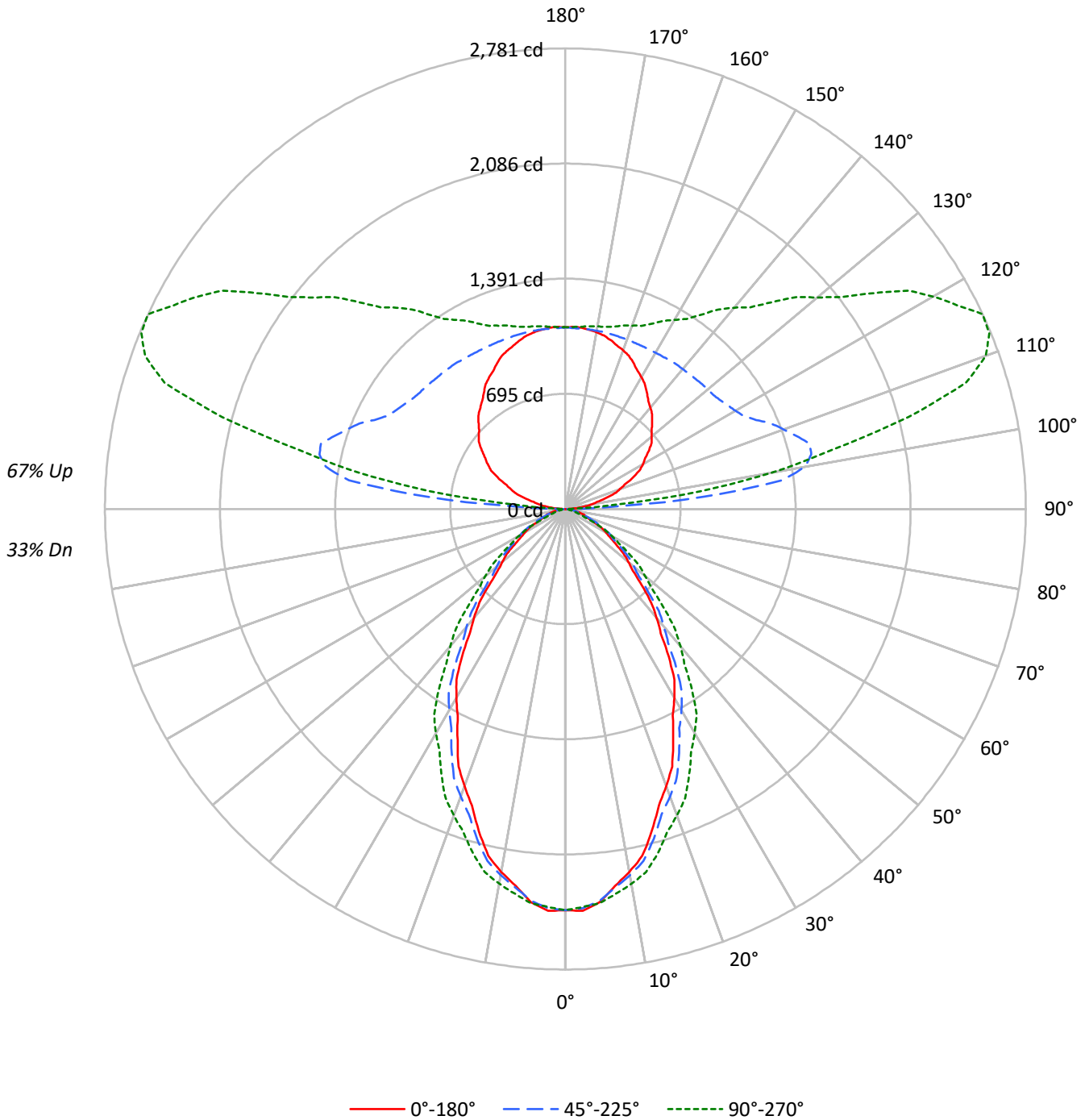
Lumens per Lamp: N/A  
Luminaire Lumens: 10611.0 lumens  
Efficiency: N/A  
Efficacy: 120.7 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Indirect

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°	14902	14902	14902
5°	14715	14663	14748
10°	13903	14029	14354
15°	12834	13132	13721
20°	11655	12094	12893
25°	10453	11024	12012
30°	9347	9958	11099
35°	8174	8764	10017
40°	6880	7425	8672
45°	5678	6167	7241
50°	4740	5167	6032
55°	4025	4434	4981
60°	3440	3844	3976
65°	2739	3234	2569
70°	2428	2523	1568
75°	2248	2046	960
80°	2072	1884	829
85°	1877	1722	677



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	222.2	2.1
10°-20°	578.0	5.4
20°-30°	748.7	7.1
30°-40°	733.1	6.9
40°-50°	561.2	5.3
50°-60°	373.9	3.5
60°-70°	204.0	1.9
70°-80°	85.0	0.8
80°-90°	26.7	0.3
90°-100°	512.9	4.8
100°-110°	1381.7	13.0
110°-120°	1450.0	13.7
120°-130°	1176.7	11.1
130°-140°	922.8	8.7
140°-150°	708.5	6.7
150°-160°	509.4	4.8
160°-170°	311.2	2.9
170°-180°	105.0	1.0
0°-30°	1548.9	14.6
0°-40°	2282.0	21.5
0°-60°	3217.1	30.3
0°-90°	3532.8	33.3
90°-120°	3344.6	31.5
90°-150°	6152.6	58.0
90°-180°	7078.0	66.7
0°-180°	10611.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2423	2423	2423	2423	2423	
5°	2383	2359	2375	2380	2389	222
15°	2016	2008	2062	2118	2155	563
25°	1540	1544	1624	1695	1770	708
35°	1089	1094	1167	1246	1334	677
45°	653	665	709	763	832	509
55°	375	391	414	429	464	340
65°	188	204	222	194	176	196
75°	95	95	86	59	40	101
85°	27	27	24	16	10	29
90°	3	8	17	18	18	7
95°	78	279	841	430	298	82
105°	256	398	1528	2286	2145	269
115°	451	552	1272	2459	2781	444
125°	616	708	1142	1931	2272	550
135°	742	828	1110	1558	1764	572
145°	858	924	1096	1332	1430	538
155°	974	1009	1087	1195	1233	448
165°	1056	1068	1091	1134	1140	298
175°	1098	1096	1092	1108	1105	104
180°	1096	1096	1096	1096	1096	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2422.7	2422.7	2422.7	2422.7	2422.7
2.5°	2428.6	2407.0	2412.5	2412.3	2405.7
5°	2383.3	2359.4	2374.8	2380.3	2388.6
7.5°	2294.9	2276.8	2304.9	2325.7	2342.5
10°	2226.0	2210.4	2246.2	2276.5	2298.3
12.5°	2146.1	2133.0	2177.3	2217.9	2246.4
15°	2015.5	2008.2	2062.3	2118.4	2154.8
17.5°	1875.8	1872.3	1934.3	1999.8	2046.3
20°	1780.6	1779.5	1847.6	1915.8	1969.8
22.5°	1684.5	1686.8	1758.3	1829.2	1890.7
25°	1540.3	1544.5	1624.3	1695.1	1770.0
27.5°	1407.0	1408.9	1491.4	1566.2	1646.0
30°	1316.0	1321.2	1402.1	1479.5	1562.7
32.5°	1225.0	1231.1	1310.3	1390.3	1475.1
35°	1088.6	1093.7	1167.2	1245.8	1334.1
37.5°	947.8	954.9	1020.1	1094.4	1181.2
40°	856.8	867.2	924.8	994.8	1080.0
42.5°	769.2	782.1	835.5	901.9	978.8
45°	652.7	665.2	709.0	762.7	832.4
47.5°	552.4	566.7	600.4	646.6	706.1
50°	495.4	508.9	540.0	574.3	630.4
52.5°	445.2	458.7	486.4	512.8	560.6
55°	375.3	390.8	413.5	429.2	464.5
57.5°	317.8	332.8	350.8	357.9	379.3
60°	279.6	296.2	312.5	311.7	323.2
62.5°	244.7	258.8	275.1	263.9	264.5
65°	188.2	203.7	222.2	194.1	176.5
67.5°	152.0	155.3	174.3	135.4	114.4
70°	135.0	135.0	140.3	104.8	87.2
72.5°	118.8	118.8	114.0	85.3	66.8
75°	94.6	94.6	86.1	59.1	40.4
77.5°	72.9	72.1	65.9	44.1	29.3
80°	58.5	58.5	53.2	34.8	23.4
82.5°	45.7	45.7	41.2	27.2	17.4
85°	26.6	26.6	24.4	15.8	9.6
87.5°	9.9	11.0	11.9	8.7	7.9
90°	2.8	8.3	16.8	18.2	18.2
92.5°	34.1	120.4	238.0	114.6	79.6
95°	78.2	279.0	840.8	430.0	297.5
97.5°	124.9	319.3	1318.8	1101.7	830.8
100°	160.6	335.4	1470.8	1538.8	1276.6
102.5°	195.3	358.1	1521.1	1866.2	1651.0
105°	255.6	397.6	1528.0	2286.1	2145.4
107.5°	312.6	439.3	1463.0	2501.9	2538.2
110°	350.6	470.8	1403.7	2568.8	2701.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	390.8	502.3	1346.7	2554.0	2771.7
115°	451.2	552.2	1272.4	2458.6	2780.9
117.5°	506.2	601.0	1214.9	2306.4	2665.3
120°	541.9	633.4	1185.8	2197.1	2565.8
122.5°	573.2	663.6	1164.6	2085.3	2453.0
125°	616.0	707.5	1142.5	1931.1	2272.5
127.5°	657.0	747.2	1128.6	1795.1	2099.9
130°	681.6	771.8	1123.0	1717.1	1984.8
132.5°	706.2	795.2	1117.4	1648.4	1894.3
135°	741.7	827.7	1110.4	1557.9	1764.1
137.5°	775.5	858.0	1106.8	1481.1	1650.4
140°	798.9	878.2	1103.4	1433.8	1586.7
142.5°	823.5	897.3	1101.2	1389.6	1518.5
145°	857.6	924.5	1096.5	1331.9	1430.3
147.5°	894.5	952.7	1091.7	1283.4	1360.7
150°	919.1	969.6	1089.5	1252.9	1317.1
152.5°	941.4	985.4	1088.3	1228.1	1280.3
155°	973.5	1009.0	1086.7	1195.1	1233.3
157.5°	1001.8	1029.3	1087.0	1171.9	1197.6
160°	1019.6	1042.8	1088.1	1158.3	1177.5
162.5°	1035.3	1054.1	1089.2	1147.0	1160.7
165°	1055.9	1068.2	1090.9	1134.3	1139.8
167.5°	1072.7	1079.8	1092.3	1124.4	1126.6
170°	1083.9	1086.6	1092.3	1118.8	1118.8
172.5°	1090.6	1091.1	1093.4	1113.2	1113.2
175°	1097.8	1096.5	1092.3	1107.6	1104.8
177.5°	1100.9	1098.7	1093.1	1102.0	1099.8
180°	1096.5	1096.5	1096.5	1096.5	1096.5

(END OF REPORT)