

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: P519573

Luminaire Tested: **SQ4-WB-150U-075D-830-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P519573  
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-075D-830-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

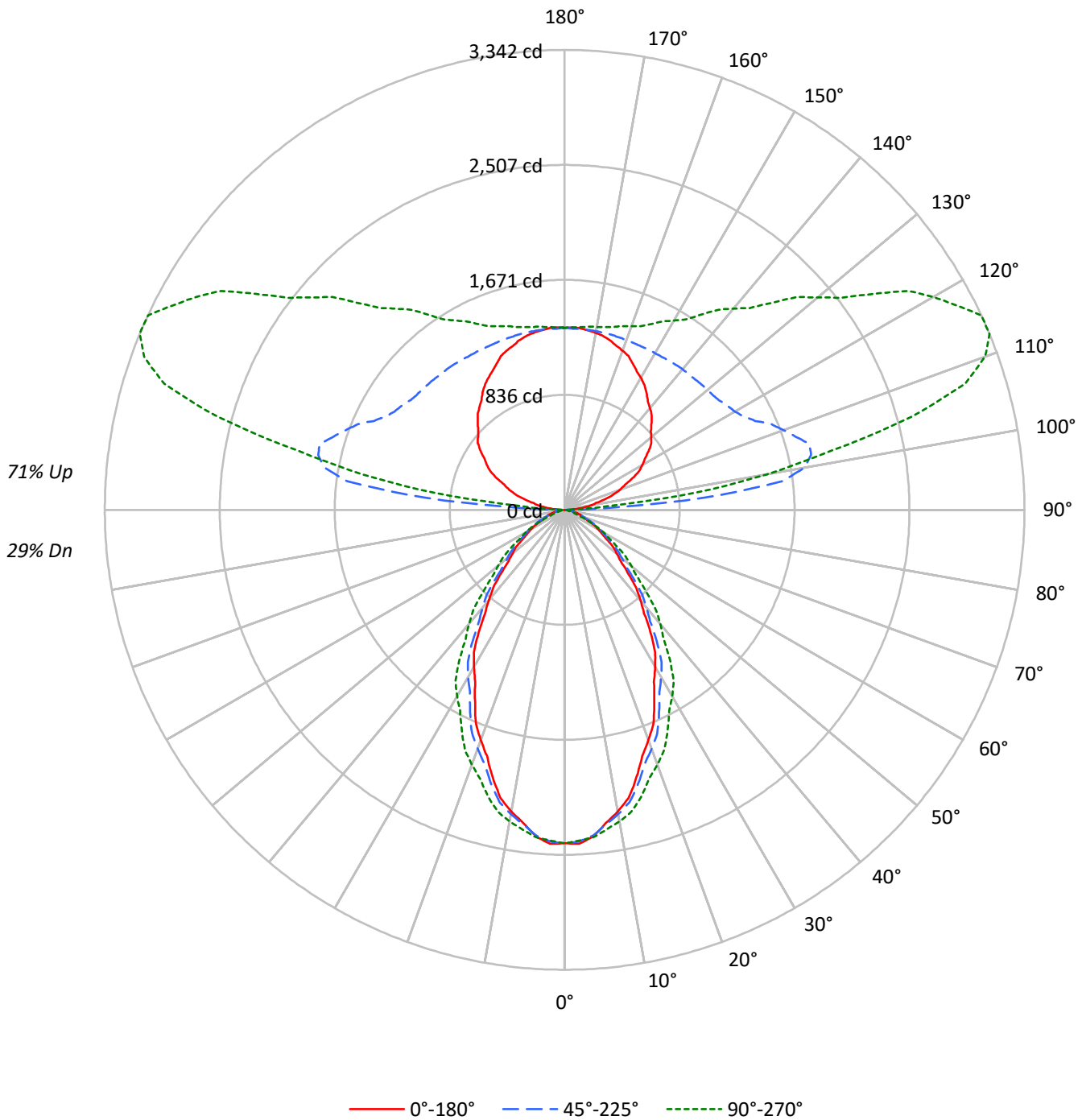
Lumens per Lamp: N/A  
Luminaire Lumens: 12061.9 lumens  
Efficiency: N/A  
Efficacy: 123.3 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 97.8  
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	0
RCR																		
0	102	102	102	102	92	92	92	92	72	72	72	54	54	54	37	37	37	29
1	94	90	86	83	84	81	78	75	64	62	60	48	47	46	34	33	33	26
2	86	79	74	69	77	71	67	63	57	54	51	43	41	39	31	29	28	23
3	79	70	64	58	71	63	58	53	51	47	44	39	36	34	28	26	25	20
4	72	63	55	50	65	57	50	46	45	41	38	35	32	30	25	24	22	18
5	67	56	49	43	60	51	44	40	41	36	33	32	29	26	23	21	20	16
6	62	50	43	38	55	46	39	35	37	32	29	29	26	23	21	19	18	15
7	57	46	38	33	51	42	35	31	34	29	26	26	23	21	20	18	16	13
8	53	41	34	29	48	38	32	27	31	26	23	24	21	19	18	16	15	12
9	49	38	31	26	44	35	29	24	28	24	21	22	19	17	17	15	13	11
10	46	35	28	24	42	32	26	22	26	22	19	21	18	15	16	14	12	10

**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	1.8
10°-20°	578.0	4.8
20°-30°	748.7	6.2
30°-40°	733.1	6.1
40°-50°	561.2	4.7
50°-60°	373.9	3.1
60°-70°	204.0	1.7
70°-80°	85.0	0.7
80°-90°	26.8	0.2
90°-100°	614.8	5.1
100°-110°	1662.2	13.8
110°-120°	1747.6	14.5
120°-130°	1419.5	11.8
130°-140°	1113.5	9.2
140°-150°	854.6	7.1
150°-160°	614.6	5.1
160°-170°	375.5	3.1
170°-180°	126.6	1.0
0°-30°	1548.9	12.8
0°-40°	2282.0	18.9
0°-60°	3217.1	26.7
0°-90°	3533.0	29.3
90°-120°	4024.6	33.4
90°-150°	7412.3	61.5
90°-180°	8529.0	70.7
0°-180°	12061.9	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	18	20	18	8
95°	95	335	1022	529	315	100
105°	309	478	1844	2720	2609	325
115°	544	665	1529	2960	3342	537
125°	745	853	1378	2326	2733	664
135°	893	999	1341	1878	2126	690
145°	1038	1116	1323	1608	1730	649
155°	1172	1218	1312	1442	1490	541
165°	1276	1288	1317	1369	1376	359
175°	1324	1323	1319	1336	1333	126
180°	1323	1323	1323	1323	1323	

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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	12.2	9.1	8.0
90°	2.8	8.4	18.5	19.9	18.5
92.5°	40.4	147.4	290.8	126.2	91.4
95°	95.4	334.9	1022.4	529.1	314.7
97.5°	153.2	384.1	1593.7	1318.9	968.6
100°	196.5	404.0	1771.4	1847.4	1493.7
102.5°	236.4	431.6	1834.1	2248.1	1983.6
105°	309.0	477.5	1844.0	2720.1	2608.7
107.5°	376.2	529.9	1763.4	3014.5	3051.5
110°	428.6	567.8	1691.7	3093.6	3250.9

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	475.3	605.6	1625.6	3077.8	3342.0
115°	544.0	665.1	1529.3	2960.5	3342.0
117.5°	611.2	724.8	1465.8	2781.4	3213.9
120°	652.2	763.6	1428.2	2652.9	3094.3
122.5°	690.9	800.1	1405.4	2515.1	2959.8
125°	744.7	853.3	1378.4	2326.0	2732.6
127.5°	794.3	900.9	1362.4	2171.7	2529.2
130°	821.6	931.6	1355.6	2076.4	2399.4
132.5°	850.1	959.0	1348.8	1990.3	2287.7
135°	892.8	998.6	1341.4	1878.1	2126.0
137.5°	935.8	1035.8	1335.1	1787.1	1989.0
140°	965.4	1058.7	1332.8	1728.5	1908.1
142.5°	993.9	1081.6	1328.3	1675.6	1832.9
145°	1038.1	1116.0	1322.9	1607.6	1730.1
147.5°	1078.2	1147.3	1316.6	1546.0	1640.1
150°	1107.8	1169.1	1314.3	1512.5	1587.7
152.5°	1135.2	1188.6	1313.2	1481.5	1543.3
155°	1171.9	1217.9	1311.5	1442.1	1489.5
157.5°	1210.1	1242.1	1311.7	1414.7	1445.9
160°	1231.7	1258.2	1312.9	1397.4	1419.7
162.5°	1248.8	1270.8	1314.0	1383.6	1400.3
165°	1275.9	1288.4	1317.2	1368.6	1375.5
167.5°	1294.4	1303.0	1317.4	1355.7	1359.0
170°	1305.8	1309.9	1318.6	1349.9	1349.9
172.5°	1314.9	1315.7	1318.6	1343.1	1341.9
175°	1324.3	1322.9	1318.6	1335.6	1332.8
177.5°	1327.4	1324.1	1318.3	1329.6	1326.3
180°	1322.9	1322.9	1322.9	1322.9	1322.9

(END OF REPORT)