

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: P519572

Luminaire Tested: **SQ4-WB-150U-075D-830-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P519572  
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-4  
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**

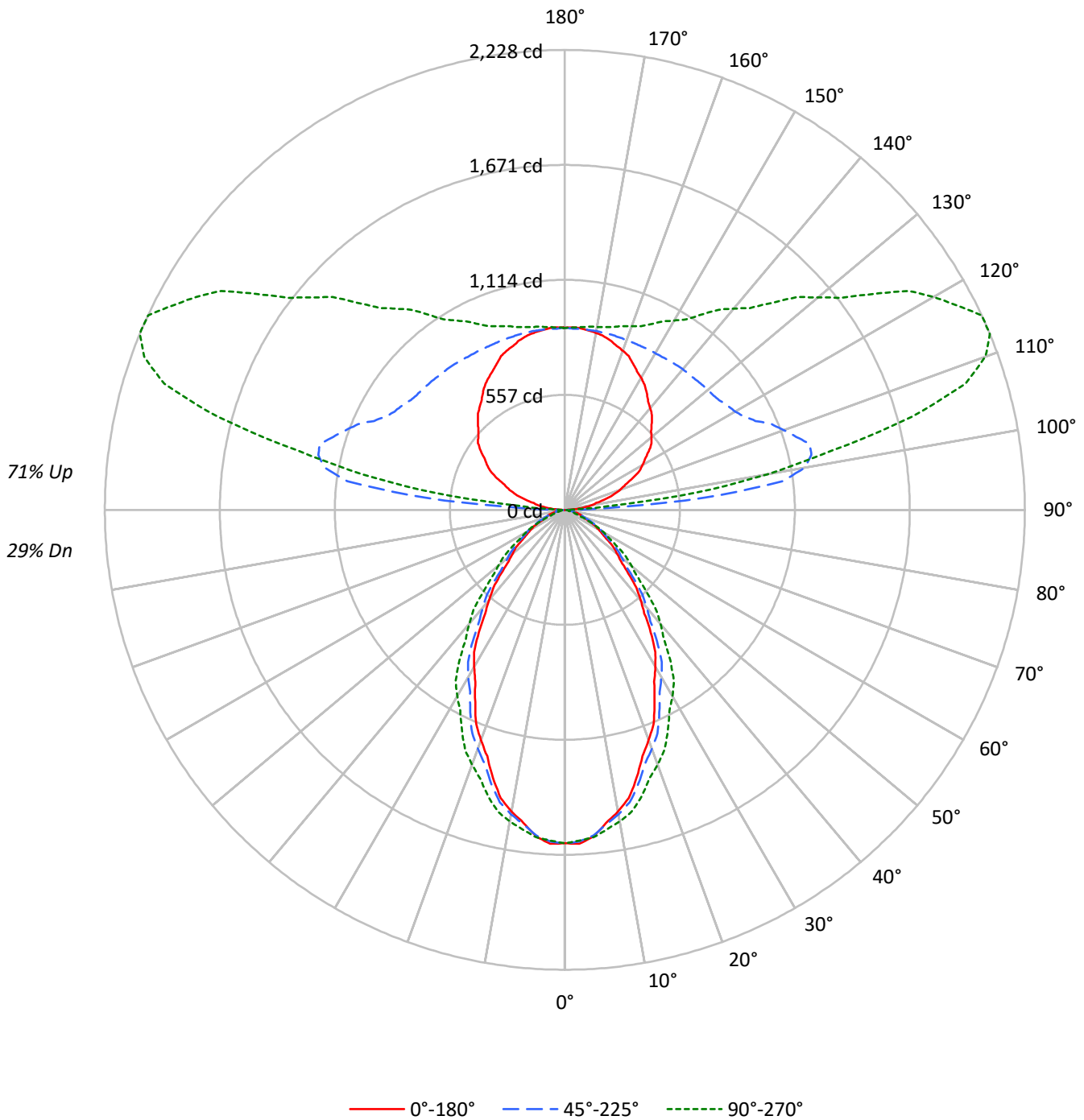
Lumens per Lamp: N/A  
Luminaire Lumens: 8041.3 lumens  
Efficiency: N/A  
Efficacy: 126.6 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 63.5  
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°	14901	14901	14901
5°	14716	14663	14748
10°	13903	14029	14354
15°	12835	13133	13721
20°	11655	12093	12893
25°	10454	11024	12012
30°	9347	9959	11099
35°	8174	8764	10017
40°	6880	7426	8672
45°	5677	6168	7240
50°	4741	5167	6033
55°	4025	4435	4982
60°	3440	3845	3975
65°	2738	3233	2567
70°	2428	2522	1567
75°	2249	2046	959
80°	2072	1881	829
85°	1874	1725	677



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	148.1	1.8
10°-20°	385.3	4.8
20°-30°	499.1	6.2
30°-40°	488.8	6.1
40°-50°	374.1	4.7
50°-60°	249.3	3.1
60°-70°	136.0	1.7
70°-80°	56.7	0.7
80°-90°	17.9	0.2
90°-100°	409.8	5.1
100°-110°	1108.2	13.8
110°-120°	1165.1	14.5
120°-130°	946.4	11.8
130°-140°	742.3	9.2
140°-150°	569.7	7.1
150°-160°	409.7	5.1
160°-170°	250.3	3.1
170°-180°	84.4	1.0
0°-30°	1032.6	12.8
0°-40°	1521.3	18.9
0°-60°	2144.8	26.7
0°-90°	2355.4	29.3
90°-120°	2683.1	33.4
90°-150°	4941.5	61.5
90°-180°	5686.0	70.7
0°-180°	8041.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1615	1615	1615	1615	1615	
5°	1589	1573	1583	1587	1592	148
15°	1344	1339	1375	1412	1436	375
25°	1027	1030	1083	1130	1180	472
35°	726	729	778	830	889	451
45°	435	444	473	508	555	339
55°	250	261	276	286	310	227
65°	125	136	148	129	118	130
75°	63	63	57	39	27	67
85°	18	18	16	10	6	19
90°	2	6	12	13	12	5
95°	64	223	682	353	210	67
105°	206	318	1229	1813	1739	217
115°	363	443	1020	1974	2228	358
125°	496	569	919	1551	1822	443
135°	595	666	894	1252	1417	460
145°	692	744	882	1072	1153	433
155°	781	812	874	961	993	360
165°	851	859	878	912	917	240
175°	883	882	879	890	888	84
180°	882	882	882	882	882	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1615.1	1615.1	1615.1	1615.1	1615.1
2.5°	1619.1	1604.7	1608.3	1608.2	1603.8
5°	1588.9	1572.9	1583.2	1586.9	1592.4
7.5°	1529.9	1517.9	1536.6	1550.4	1561.7
10°	1484.0	1473.6	1497.5	1517.6	1532.2
12.5°	1430.7	1422.0	1451.5	1478.6	1497.6
15°	1343.7	1338.8	1374.9	1412.3	1436.5
17.5°	1250.6	1248.2	1289.5	1333.2	1364.2
20°	1187.1	1186.4	1231.7	1277.2	1313.2
22.5°	1123.0	1124.5	1172.2	1219.5	1260.5
25°	1026.9	1029.7	1082.9	1130.1	1180.0
27.5°	938.0	939.3	994.3	1044.1	1097.3
30°	877.4	880.8	934.8	986.3	1041.8
32.5°	816.7	820.7	873.5	926.8	983.4
35°	725.7	729.2	778.1	830.5	889.4
37.5°	631.9	636.6	680.1	729.6	787.5
40°	571.2	578.1	616.6	663.2	720.0
42.5°	512.8	521.4	557.0	601.3	652.6
45°	435.1	443.5	472.7	508.5	554.9
47.5°	368.2	377.8	400.3	431.1	470.7
50°	330.3	339.3	360.0	382.8	420.3
52.5°	296.8	305.8	324.3	341.9	373.8
55°	250.2	260.6	275.7	286.1	309.7
57.5°	211.9	221.9	233.9	238.6	252.9
60°	186.4	197.5	208.4	207.8	215.4
62.5°	163.1	172.6	183.4	175.9	176.3
65°	125.4	135.8	148.1	129.4	117.6
67.5°	101.3	103.6	116.2	90.3	76.3
70°	90.0	90.0	93.5	69.9	58.1
72.5°	79.2	79.2	76.0	56.8	44.5
75°	63.1	63.1	57.4	39.4	26.9
77.5°	48.6	48.1	43.9	29.4	19.6
80°	39.0	39.0	35.4	23.2	15.6
82.5°	30.5	30.5	27.5	18.1	11.6
85°	17.7	17.7	16.3	10.5	6.4
87.5°	6.6	7.4	8.1	6.0	5.3
90°	1.9	5.6	12.3	13.3	12.3
92.5°	27.0	98.2	193.8	84.2	60.9
95°	63.6	223.3	681.6	352.7	209.8
97.5°	102.1	256.0	1062.5	879.3	645.7
100°	131.0	269.3	1180.9	1231.6	995.8
102.5°	157.6	287.7	1222.7	1498.7	1322.4
105°	206.0	318.3	1229.3	1813.4	1739.1
107.5°	250.8	353.3	1175.6	2009.7	2034.4
110°	285.7	378.6	1127.8	2062.4	2167.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	316.9	403.8	1083.7	2051.8	2228.0
115°	362.6	443.4	1019.6	1973.7	2228.0
117.5°	407.4	483.2	977.2	1854.3	2142.6
120°	434.8	509.0	952.2	1768.6	2062.8
122.5°	460.6	533.4	937.0	1676.8	1973.2
125°	496.5	568.9	918.9	1550.7	1821.7
127.5°	529.5	600.6	908.3	1447.8	1686.2
130°	547.7	621.1	903.7	1384.2	1599.6
132.5°	566.7	639.3	899.2	1326.9	1525.2
135°	595.2	665.8	894.2	1252.1	1417.3
137.5°	623.9	690.5	890.1	1191.4	1326.0
140°	643.6	705.8	888.5	1152.3	1272.1
142.5°	662.6	721.1	885.5	1117.1	1221.9
145°	692.0	744.0	881.9	1071.7	1153.4
147.5°	718.8	764.9	877.7	1030.7	1093.4
150°	738.6	779.4	876.2	1008.4	1058.5
152.5°	756.8	792.4	875.4	987.6	1028.9
155°	781.3	811.9	874.3	961.4	993.0
157.5°	806.7	828.1	874.5	943.1	963.9
160°	821.1	838.8	875.3	931.6	946.5
162.5°	832.5	847.2	876.0	922.4	933.5
165°	850.6	858.9	878.1	912.4	917.0
167.5°	862.9	868.7	878.3	903.8	906.0
170°	870.5	873.3	879.1	899.9	899.9
172.5°	876.6	877.1	879.1	895.4	894.6
175°	882.9	881.9	879.1	890.4	888.5
177.5°	884.9	882.7	878.9	886.4	884.2
180°	881.9	881.9	881.9	881.9	881.9

(END OF REPORT)