

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: P519585

Luminaire Tested: **SQ4-WB-150U-075D-930-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P519585  
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-930-1D-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, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

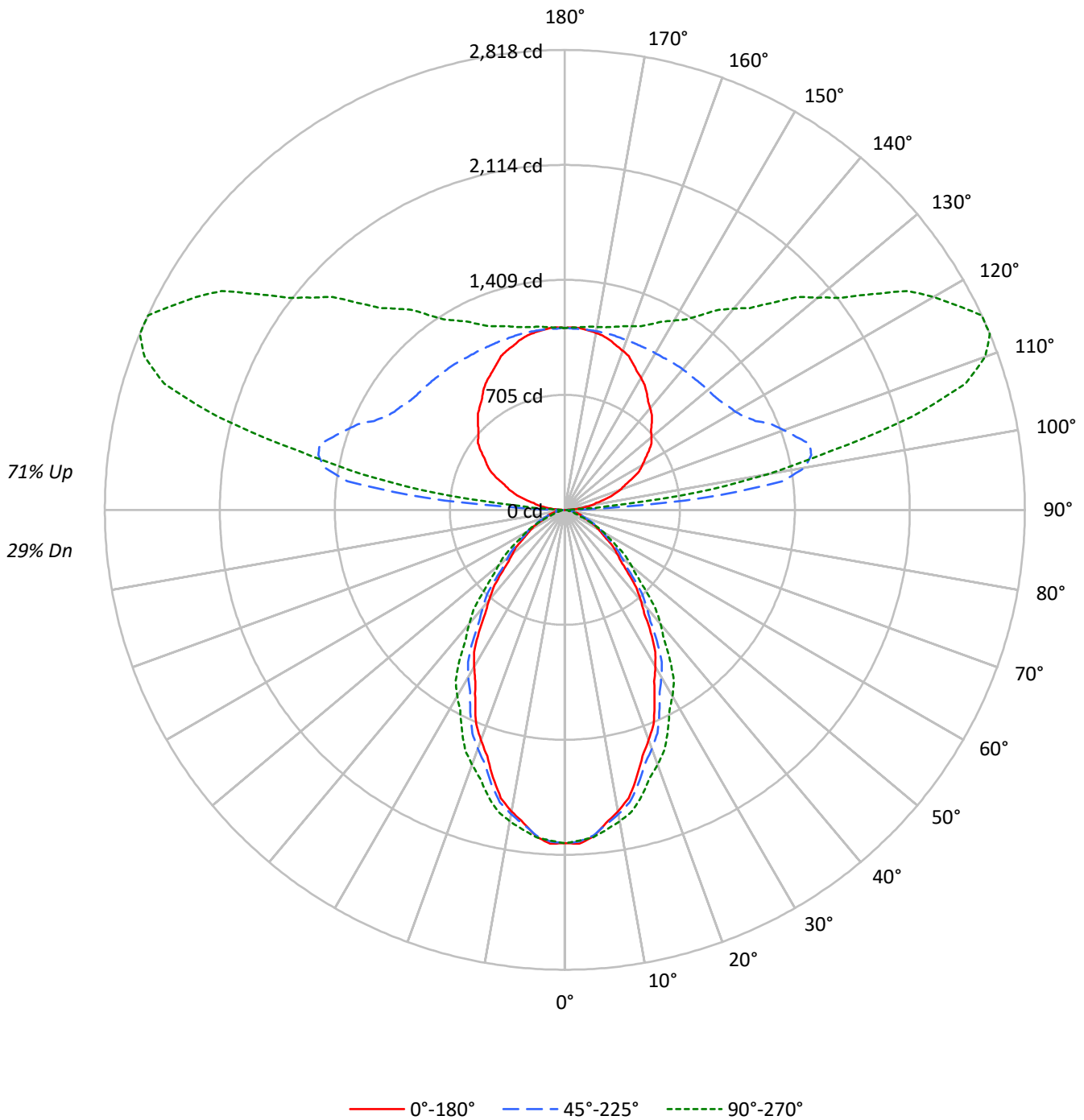
Lumens per Lamp: N/A  
Luminaire Lumens: 10168.9 lumens  
Efficiency: N/A  
Efficacy: 104.0 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Indirect

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°	12562	12562	12562
5°	12406	12362	12434
10°	11721	11827	12102
15°	10820	11071	11568
20°	9826	10195	10870
25°	8813	9294	10127
30°	7880	8396	9357
35°	6891	7389	8445
40°	5800	6260	7311
45°	4787	5200	6104
50°	3996	4357	5085
55°	3393	3738	4199
60°	2899	3241	3351
65°	2308	2726	2166
70°	2047	2127	1322
75°	1896	1725	810
80°	1746	1587	698
85°	1581	1454	572



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	187.3	1.8
10°-20°	487.3	4.8
20°-30°	631.2	6.2
30°-40°	618.1	6.1
40°-50°	473.1	4.7
50°-60°	315.2	3.1
60°-70°	172.0	1.7
70°-80°	71.7	0.7
80°-90°	22.6	0.2
90°-100°	518.3	5.1
100°-110°	1401.4	13.8
110°-120°	1473.3	14.5
120°-130°	1196.7	11.8
130°-140°	938.7	9.2
140°-150°	720.5	7.1
150°-160°	518.2	5.1
160°-170°	316.5	3.1
170°-180°	106.7	1.0
0°-30°	1305.8	12.8
0°-40°	1923.9	18.9
0°-60°	2712.2	26.7
0°-90°	2978.5	29.3
90°-120°	3393.0	33.4
90°-150°	6249.0	61.5
90°-180°	7190.0	70.7
0°-180°	10168.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2042	2042	2042	2042	2042	
5°	2009	1989	2002	2007	2014	187
15°	1699	1693	1739	1786	1817	475
25°	1299	1302	1369	1429	1492	597
35°	918	922	984	1050	1125	571
45°	550	561	598	643	702	429
55°	316	330	349	362	392	287
65°	159	172	187	164	149	165
75°	80	80	73	50	34	85
85°	22	22	21	13	8	24
90°	2	7	16	17	16	6
95°	80	282	862	446	265	84
105°	260	402	1555	2293	2199	274
115°	459	561	1289	2496	2818	453
125°	628	719	1162	1961	2304	560
135°	753	842	1131	1583	1792	582
145°	875	941	1115	1355	1459	547
155°	988	1027	1106	1216	1256	456
165°	1076	1086	1110	1154	1160	303
175°	1116	1115	1112	1126	1124	106
180°	1115	1115	1115	1115	1115	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2042.4	2042.4	2042.4	2042.4	2042.4
2.5°	2047.5	2029.2	2033.8	2033.7	2028.1
5°	2009.3	1989.1	2002.1	2006.8	2013.8
7.5°	1934.7	1919.5	1943.1	1960.7	1974.9
10°	1876.6	1863.5	1893.7	1919.2	1937.6
12.5°	1809.3	1798.2	1835.6	1869.8	1893.9
15°	1699.2	1693.1	1738.6	1785.9	1816.6
17.5°	1581.4	1578.5	1630.7	1685.9	1725.2
20°	1501.1	1500.3	1557.6	1615.1	1660.7
22.5°	1420.1	1422.0	1482.3	1542.1	1594.0
25°	1298.6	1302.1	1369.4	1429.1	1492.2
27.5°	1186.2	1187.8	1257.4	1320.4	1387.7
30°	1109.5	1113.9	1182.1	1247.3	1317.4
32.5°	1032.8	1037.9	1104.7	1172.1	1243.6
35°	917.7	922.1	984.0	1050.2	1124.7
37.5°	799.1	805.0	860.0	922.6	995.9
40°	722.3	731.1	779.7	838.7	910.5
42.5°	648.5	659.4	704.4	760.4	825.2
45°	550.3	560.8	597.8	643.0	701.7
47.5°	465.7	477.8	506.2	545.1	595.3
50°	417.6	429.0	455.3	484.1	531.4
52.5°	375.3	386.7	410.1	432.3	472.7
55°	316.4	329.5	348.6	361.8	391.6
57.5°	268.0	280.6	295.7	301.7	319.8
60°	235.7	249.7	263.5	262.8	272.4
62.5°	206.3	218.2	231.9	222.4	223.0
65°	158.6	171.8	187.3	163.7	148.8
67.5°	128.2	131.0	147.0	114.1	96.4
70°	113.8	113.8	118.3	88.4	73.5
72.5°	100.2	100.2	96.1	71.9	56.3
75°	79.8	79.8	72.6	49.8	34.1
77.5°	61.5	60.8	55.6	37.2	24.7
80°	49.3	49.3	44.8	29.4	19.7
82.5°	38.5	38.5	34.8	22.9	14.7
85°	22.4	22.4	20.6	13.3	8.1
87.5°	8.4	9.3	10.3	7.6	6.7
90°	2.4	7.1	15.6	16.8	15.6
92.5°	34.1	124.2	245.1	106.4	77.1
95°	80.4	282.3	861.9	446.1	265.3
97.5°	129.2	323.8	1343.6	1111.9	816.6
100°	165.7	340.6	1493.4	1557.4	1259.3
102.5°	199.3	363.8	1546.2	1895.3	1672.3
105°	260.5	402.5	1554.6	2293.2	2199.3
107.5°	317.2	446.8	1486.7	2541.4	2572.6
110°	361.3	478.7	1426.2	2608.0	2740.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	400.7	510.6	1370.5	2594.7	2817.5
115°	458.6	560.7	1289.3	2495.9	2817.5
117.5°	515.2	611.0	1235.8	2344.9	2709.5
120°	549.8	643.7	1204.1	2236.5	2608.6
122.5°	582.5	674.5	1184.9	2120.4	2495.3
125°	627.8	719.4	1162.1	1961.0	2303.7
127.5°	669.6	759.5	1148.6	1830.9	2132.3
130°	692.7	785.4	1142.9	1750.5	2022.8
132.5°	716.7	808.5	1137.1	1678.0	1928.7
135°	752.7	841.9	1130.8	1583.4	1792.3
137.5°	789.0	873.2	1125.6	1506.6	1676.8
140°	813.9	892.6	1123.6	1457.2	1608.6
142.5°	837.9	911.9	1119.8	1412.6	1545.3
145°	875.1	940.9	1115.2	1355.3	1458.6
147.5°	909.0	967.2	1110.0	1303.4	1382.7
150°	934.0	985.6	1108.0	1275.1	1338.5
152.5°	957.0	1002.1	1107.1	1249.0	1301.1
155°	988.0	1026.7	1105.6	1215.8	1255.7
157.5°	1020.2	1047.2	1105.9	1192.7	1219.0
160°	1038.4	1060.7	1106.8	1178.1	1196.9
162.5°	1052.8	1071.4	1107.8	1166.5	1180.5
165°	1075.6	1086.2	1110.4	1153.8	1159.7
167.5°	1091.2	1098.5	1110.7	1142.9	1145.7
170°	1100.8	1104.4	1111.6	1138.1	1138.1
172.5°	1108.5	1109.2	1111.6	1132.3	1131.3
175°	1116.4	1115.3	1111.6	1126.0	1123.6
177.5°	1119.1	1116.3	1111.4	1120.9	1118.1
180°	1115.2	1115.2	1115.2	1115.2	1115.2

(END OF REPORT)