

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P522039

Luminaire Tested: **SQ4-WB-150U-075D-93050-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/5/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522039  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-50,  
Test Lab: INNOVATION CENTER  
Issue Date: 5/5/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-WB-150U-075D-93050-1D-UNV-STD-W-4 (4000K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

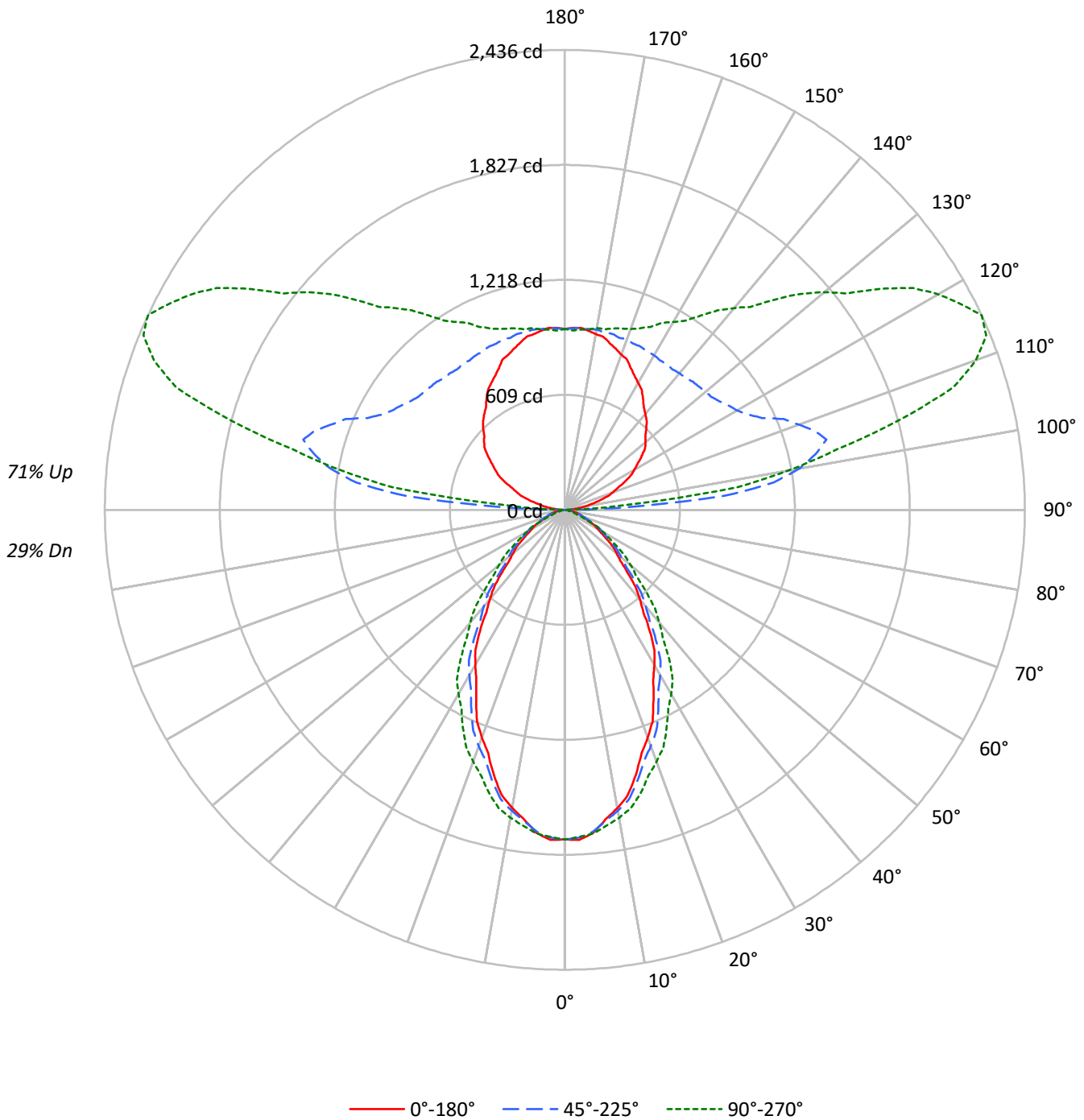
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8745.4 lumens  
Efficiency: N/A  
Efficacy: 105.9 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): 82.6  
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	32	26
2	86	79	74	69	77	71	67	63	57	53	51	43	41	39	30	29	28	23
3	79	70	64	58	71	63	58	53	51	47	43	39	36	34	28	26	25	20
4	72	63	55	50	65	57	50	46	45	41	38	35	32	30	25	23	22	18
5	67	56	48	43	60	51	44	40	41	36	33	32	29	26	23	21	20	16
6	61	50	43	38	55	46	39	35	37	32	29	29	26	23	21	19	18	15
7	57	46	38	33	51	41	35	31	34	29	26	26	23	21	19	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	41	32	26	22	26	22	19	21	18	15	16	14	12	10

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

	0°	45°	90°
0°	16106	16106	16106
5°	15906	15848	15941
10°	15027	15163	15515
15°	13872	14194	14831
20°	12597	13071	13936
25°	11299	11915	12984
30°	10103	10763	11996
35°	8835	9473	10827
40°	7436	8026	9374
45°	6136	6666	7826
50°	5124	5585	6519
55°	4349	4793	5384
60°	3718	4155	4298
65°	2960	3495	2777
70°	2625	2727	1694
75°	2431	2210	1037
80°	2237	2035	898
85°	2022	1863	730



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	160.1	1.8
10°-20°	416.5	4.8
20°-30°	539.5	6.2
30°-40°	528.3	6.0
40°-50°	404.4	4.6
50°-60°	269.4	3.1
60°-70°	147.0	1.7
70°-80°	61.3	0.7
80°-90°	17.3	0.2
90°-100°	493.7	5.6
100°-110°	1193.3	13.6
110°-120°	1272.7	14.6
120°-130°	1030.8	11.8
130°-140°	798.1	9.1
140°-150°	608.8	7.0
150°-160°	440.7	5.0
160°-170°	271.4	3.1
170°-180°	91.9	1.1
0°-30°	1116.1	12.8
0°-40°	1644.3	18.8
0°-60°	2318.2	26.5
0°-90°	2543.8	29.1
90°-120°	2959.8	33.8
90°-150°	5397.5	61.7
90°-180°	6202.0	70.9
0°-180°	8745.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1746	1746	1746	1746	1746	
5°	1717	1700	1711	1715	1721	160
15°	1452	1447	1486	1526	1553	406
25°	1110	1113	1170	1222	1275	510
35°	784	788	841	898	961	488
45°	470	479	511	550	600	367
55°	270	282	298	309	335	245
65°	136	147	160	140	127	141
75°	68	68	62	43	29	73
85°	19	19	18	11	7	21
90°	0	0	0	0	0	3
95°	49	247	846	550	385	55
105°	191	330	1434	1856	1832	201
115°	349	446	1152	2184	2436	345
125°	497	572	1000	1737	2041	443
135°	611	682	960	1370	1576	471
145°	722	776	941	1164	1256	451
155°	828	863	954	1031	1069	382
165°	915	929	966	980	994	258
175°	968	964	968	960	958	91
180°	958	958	958	958	958	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1745.7	1745.7	1745.7	1745.7	1745.7
2.5°	1750.0	1734.4	1738.3	1738.2	1733.4
5°	1717.4	1700.1	1711.2	1715.2	1721.2
7.5°	1653.6	1640.6	1660.8	1675.8	1687.9
10°	1604.0	1592.8	1618.5	1640.4	1656.1
12.5°	1546.4	1537.0	1568.9	1598.2	1618.7
15°	1452.3	1447.1	1486.0	1526.5	1552.7
17.5°	1351.7	1349.1	1393.8	1441.0	1474.5
20°	1283.0	1282.3	1331.3	1380.4	1419.4
22.5°	1213.8	1215.4	1267.0	1318.1	1362.4
25°	1109.9	1112.9	1170.4	1221.5	1275.4
27.5°	1013.9	1015.2	1074.7	1128.5	1186.1
30°	948.3	952.0	1010.3	1066.1	1126.0
32.5°	882.7	887.1	944.2	1001.8	1062.9
35°	784.4	788.1	841.1	897.7	961.3
37.5°	683.0	688.1	735.0	788.6	851.2
40°	617.4	624.9	666.4	716.8	778.3
42.5°	554.3	563.6	602.1	649.9	705.3
45°	470.3	479.3	510.9	549.6	599.8
47.5°	398.0	408.3	432.6	465.9	508.8
50°	357.0	366.7	389.1	413.8	454.2
52.5°	320.8	330.5	350.5	369.5	404.0
55°	270.4	281.6	298.0	309.3	334.7
57.5°	229.0	239.8	252.8	257.9	273.3
60°	201.5	213.4	225.2	224.6	232.9
62.5°	176.3	186.5	198.2	190.1	190.6
65°	135.6	146.8	160.1	139.9	127.2
67.5°	109.5	111.9	125.6	97.6	82.4
70°	97.3	97.3	101.1	75.5	62.8
72.5°	85.6	85.6	82.1	61.4	48.1
75°	68.2	68.2	62.0	42.6	29.1
77.5°	52.5	51.9	47.5	31.8	21.1
80°	42.1	42.1	38.3	25.1	16.9
82.5°	32.9	32.9	29.7	19.6	12.6
85°	19.1	19.1	17.6	11.4	6.9
87.5°	6.7	6.7	6.1	3.7	3.1
90°	0.0	0.0	0.0	0.0	0.0
92.5°	16.2	133.7	314.8	153.1	103.9
95°	48.7	247.0	845.9	550.1	385.4
97.5°	86.4	273.7	1114.1	1073.3	921.4
100°	115.6	290.2	1261.8	1332.0	1207.0
102.5°	143.2	305.1	1359.2	1547.4	1473.2
105°	190.7	329.5	1434.2	1855.7	1831.9
107.5°	237.3	358.3	1390.0	2102.9	2158.9
110°	269.8	382.9	1318.6	2209.5	2314.7

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	302.3	407.4	1255.3	2235.6	2415.3
115°	348.9	446.1	1152.3	2184.5	2436.4
117.5°	395.2	486.8	1091.8	2067.0	2362.1
120°	426.0	511.3	1052.9	1974.8	2284.2
122.5°	458.5	537.4	1028.5	1880.6	2185.2
125°	497.0	572.4	1000.1	1737.3	2040.8
127.5°	535.2	606.2	980.2	1616.0	1882.6
130°	557.9	627.3	973.7	1531.5	1793.3
132.5°	579.0	651.6	964.0	1470.5	1692.7
135°	610.6	682.0	959.5	1370.0	1576.2
137.5°	640.6	712.4	945.3	1301.9	1457.4
140°	663.4	728.8	945.3	1252.9	1395.7
142.5°	686.1	751.5	937.2	1210.2	1330.8
145°	722.2	775.7	941.3	1164.5	1255.7
147.5°	755.9	807.8	938.9	1111.8	1187.2
150°	777.0	822.6	945.3	1088.7	1148.2
152.5°	799.7	843.7	943.7	1064.2	1117.4
155°	827.7	863.4	953.5	1031.4	1069.1
157.5°	861.4	891.9	951.4	1018.9	1041.1
160°	874.3	900.1	959.5	1002.5	1018.4
162.5°	895.4	918.1	956.3	997.5	1007.0
165°	914.9	928.8	965.6	980.1	994.0
167.5°	938.9	948.0	963.2	979.0	979.4
170°	945.3	951.3	969.7	967.9	977.8
172.5°	956.7	961.1	964.8	969.1	963.2
175°	967.7	963.7	967.7	959.5	957.5
177.5°	965.6	965.6	962.4	959.0	951.0
180°	957.5	957.5	957.5	957.5	957.5

(END OF REPORT)