

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: P522040

Luminaire Tested: **SQ4-WB-150U-075D-93050-1D-UNV-STD-W-4 (4500K)**

Issue Date: 5/5/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522040  
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 (4500K)  
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 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

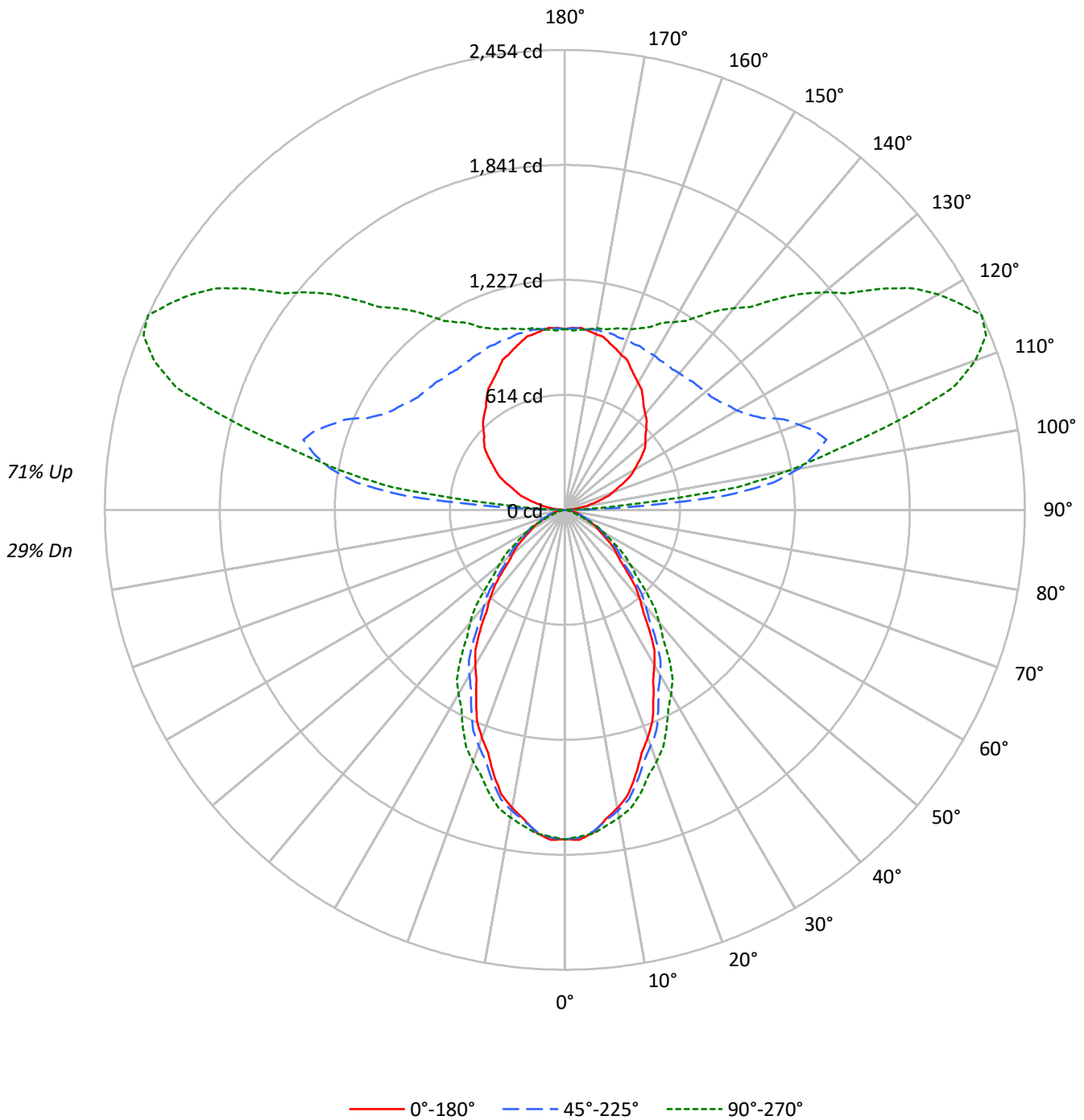
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8807.2 lumens  
Efficiency: N/A  
Efficacy: 106.8 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): 82.5  
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	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°	16220	16220	16220
5°	16018	15960	16054
10°	15133	15271	15625
15°	13970	14294	14935
20°	12686	13163	14034
25°	11379	11999	13075
30°	10174	10840	12081
35°	8897	9540	10904
40°	7489	8083	9440
45°	6179	6713	7881
50°	5160	5625	6565
55°	4380	4827	5422
60°	3744	4185	4327
65°	2980	3519	2797
70°	2644	2746	1708
75°	2449	2228	1044
80°	2253	2051	903
85°	2043	1874	730



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	161.3	1.8
10°-20°	419.4	4.8
20°-30°	543.3	6.2
30°-40°	532.0	6.0
40°-50°	407.2	4.6
50°-60°	271.4	3.1
60°-70°	148.1	1.7
70°-80°	61.7	0.7
80°-90°	17.5	0.2
90°-100°	497.2	5.6
100°-110°	1201.7	13.6
110°-120°	1281.7	14.6
120°-130°	1038.1	11.8
130°-140°	803.7	9.1
140°-150°	613.1	7.0
150°-160°	443.8	5.0
160°-170°	273.4	3.1
170°-180°	92.6	1.1
0°-30°	1124.0	12.8
0°-40°	1656.0	18.8
0°-60°	2334.5	26.5
0°-90°	2561.8	29.1
90°-120°	2980.7	33.8
90°-150°	5435.7	61.7
90°-180°	6245.0	70.9
0°-180°	8807.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1758	1758	1758	1758	1758	
5°	1730	1712	1723	1727	1733	161
15°	1463	1457	1496	1537	1564	408
25°	1118	1121	1179	1230	1284	514
35°	790	794	847	904	968	491
45°	474	483	514	554	604	369
55°	272	284	300	312	337	247
65°	136	148	161	141	128	142
75°	69	69	62	43	29	73
85°	19	19	18	12	7	21
90°	0	0	0	0	0	3
95°	49	249	852	554	388	55
105°	192	332	1444	1869	1845	203
115°	351	449	1160	2200	2454	347
125°	500	576	1007	1750	2055	447
135°	615	687	966	1380	1587	475
145°	727	781	948	1173	1265	455
155°	834	870	960	1039	1077	385
165°	921	935	972	987	1001	260
175°	974	970	974	966	964	92
180°	964	964	964	964	964	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1758.0	1758.0	1758.0	1758.0	1758.0
2.5°	1762.4	1746.7	1750.6	1750.5	1745.7
5°	1729.5	1712.1	1723.3	1727.3	1733.4
7.5°	1665.3	1652.2	1672.6	1687.7	1699.9
10°	1615.3	1604.0	1630.0	1651.9	1667.8
12.5°	1557.3	1547.8	1580.0	1609.5	1630.1
15°	1462.6	1457.3	1496.5	1537.2	1563.6
17.5°	1361.2	1358.7	1403.7	1451.2	1485.0
20°	1292.1	1291.4	1340.7	1390.2	1429.4
22.5°	1222.4	1224.0	1275.9	1327.4	1372.0
25°	1117.8	1120.8	1178.7	1230.1	1284.4
27.5°	1021.0	1022.4	1082.3	1136.5	1194.4
30°	955.0	958.8	1017.5	1073.6	1134.0
32.5°	889.0	893.3	950.8	1008.9	1070.4
35°	789.9	793.7	847.0	904.0	968.1
37.5°	687.8	692.9	740.2	794.1	857.2
40°	621.8	629.3	671.1	721.9	783.8
42.5°	558.2	567.5	606.3	654.5	710.3
45°	473.6	482.7	514.5	553.5	604.0
47.5°	400.8	411.2	435.7	469.2	512.4
50°	359.5	369.3	391.9	416.7	457.4
52.5°	323.1	332.9	353.0	372.1	406.8
55°	272.3	283.6	300.1	311.5	337.1
57.5°	230.7	241.5	254.6	259.7	275.2
60°	202.9	214.9	226.8	226.2	234.5
62.5°	177.6	187.8	199.6	191.5	191.9
65°	136.5	147.9	161.2	140.9	128.1
67.5°	110.3	112.7	126.5	98.2	83.0
70°	98.0	98.0	101.8	76.1	63.3
72.5°	86.2	86.2	82.7	61.9	48.4
75°	68.7	68.7	62.5	42.9	29.3
77.5°	52.9	52.3	47.8	32.0	21.3
80°	42.4	42.4	38.6	25.3	17.0
82.5°	33.2	33.2	29.9	19.7	12.7
85°	19.3	19.3	17.7	11.5	6.9
87.5°	6.8	6.8	6.2	3.7	3.1
90°	0.0	0.0	0.0	0.0	0.0
92.5°	16.3	134.6	317.1	154.1	104.6
95°	49.0	248.8	851.9	554.0	388.2
97.5°	87.0	275.6	1122.0	1080.9	927.9
100°	116.4	292.2	1270.7	1341.4	1215.6
102.5°	144.2	307.2	1368.8	1558.3	1483.6
105°	192.0	331.9	1444.4	1868.8	1844.8
107.5°	239.0	360.9	1399.8	2117.8	2174.1
110°	271.7	385.6	1327.9	2225.2	2331.0

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	304.4	410.3	1264.2	2251.4	2432.4
115°	351.4	449.3	1160.4	2199.9	2453.6
117.5°	398.0	490.3	1099.5	2081.6	2378.8
120°	429.0	514.9	1060.3	1988.8	2300.4
122.5°	461.7	541.2	1035.8	1893.9	2200.7
125°	500.5	576.4	1007.2	1749.6	2055.2
127.5°	538.9	610.4	987.2	1627.4	1895.9
130°	561.8	631.7	980.6	1542.3	1806.0
132.5°	583.1	656.2	970.8	1480.9	1704.7
135°	614.9	686.8	966.3	1379.6	1587.4
137.5°	645.2	717.5	952.0	1311.1	1467.7
140°	668.1	734.0	952.0	1261.7	1405.6
142.5°	690.9	756.9	943.9	1218.7	1340.2
145°	727.3	781.2	947.9	1172.7	1264.6
147.5°	761.2	813.5	945.5	1119.6	1195.5
150°	782.5	828.4	952.0	1096.4	1156.3
152.5°	805.3	849.7	950.4	1071.7	1125.3
155°	833.5	869.5	960.2	1038.7	1076.6
157.5°	867.4	898.2	958.2	1026.1	1048.5
160°	880.5	906.5	966.3	1009.6	1025.6
162.5°	901.8	924.5	963.1	1004.5	1014.1
165°	921.4	935.4	972.5	987.1	1001.1
167.5°	945.5	954.7	970.0	985.9	986.3
170°	952.0	958.0	976.5	974.7	984.7
172.5°	963.5	967.9	971.6	976.0	970.0
175°	974.5	970.5	974.5	966.3	964.3
177.5°	972.5	972.5	969.2	965.7	957.7
180°	964.3	964.3	964.3	964.3	964.3

(END OF REPORT)