

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: P522038

Luminaire Tested: **SQ4-WB-150U-075D-93050-1D-UNV-STD-W-4 (3500K)**

Issue Date: 5/5/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522038  
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 (3500K)  
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 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

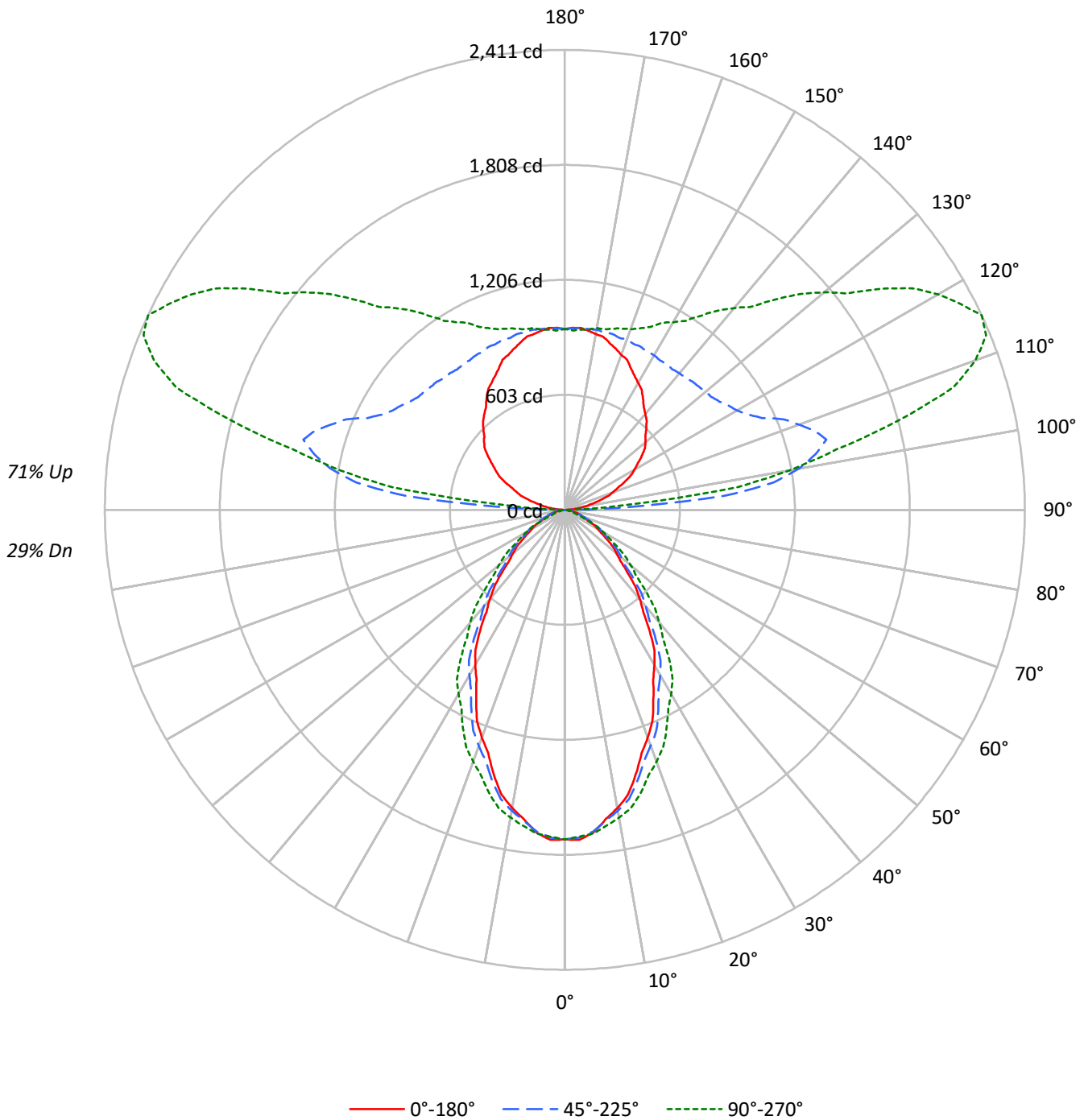
Lumens per Lamp: N/A  
Luminaire Lumens: 8653.3 lumens  
Efficiency: N/A  
Efficacy: 104.8 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 82.6  
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	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°	15936	15936	15936
5°	15738	15681	15773
10°	14869	15004	15351
15°	13726	14045	14674
20°	12464	12934	13789
25°	11180	11789	12847
30°	9996	10650	11870
35°	8741	9373	10713
40°	7358	7942	9275
45°	6072	6596	7744
50°	5070	5526	6452
55°	4303	4742	5327
60°	3678	4111	4251
65°	2930	3458	2746
70°	2598	2698	1678
75°	2406	2189	1027
80°	2216	2014	887
85°	2001	1842	720



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	158.4	1.8
10°-20°	412.1	4.8
20°-30°	533.8	6.2
30°-40°	522.7	6.0
40°-50°	400.1	4.6
50°-60°	266.6	3.1
60°-70°	145.5	1.7
70°-80°	60.6	0.7
80°-90°	17.2	0.2
90°-100°	488.5	5.6
100°-110°	1180.8	13.6
110°-120°	1259.3	14.6
120°-130°	1020.0	11.8
130°-140°	789.7	9.1
140°-150°	602.4	7.0
150°-160°	436.1	5.0
160°-170°	268.6	3.1
170°-180°	90.9	1.1
0°-30°	1104.3	12.8
0°-40°	1627.0	18.8
0°-60°	2293.7	26.5
0°-90°	2517.0	29.1
90°-120°	2928.6	33.8
90°-150°	5340.7	61.7
90°-180°	6136.0	70.9
0°-180°	8653.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1727	1727	1727	1727	1727	
5°	1699	1682	1693	1697	1703	158
15°	1437	1432	1470	1510	1536	401
25°	1098	1101	1158	1209	1262	505
35°	776	780	832	888	951	482
45°	465	474	506	544	594	363
55°	268	279	295	306	331	243
65°	134	145	158	138	126	139
75°	68	68	61	42	29	72
85°	19	19	17	11	7	21
90°	0	0	0	0	0	3
95°	48	244	837	544	381	54
105°	189	326	1419	1836	1813	199
115°	345	441	1140	2162	2411	341
125°	492	566	990	1719	2019	439
135°	604	675	949	1356	1560	466
145°	715	768	931	1152	1242	447
155°	819	854	943	1020	1058	378
165°	905	919	956	970	984	255
175°	958	954	958	949	947	90
180°	947	947	947	947	947	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1727.3	1727.3	1727.3	1727.3	1727.3
2.5°	1731.6	1716.1	1720.0	1719.9	1715.2
5°	1699.3	1682.2	1693.2	1697.1	1703.1
7.5°	1636.2	1623.3	1643.3	1658.2	1670.2
10°	1587.1	1576.0	1601.5	1623.1	1638.6
12.5°	1530.1	1520.8	1552.4	1581.3	1601.7
15°	1437.0	1431.8	1470.4	1510.4	1536.3
17.5°	1337.4	1334.9	1379.1	1425.8	1459.0
20°	1269.5	1268.8	1317.3	1365.9	1404.4
22.5°	1201.0	1202.6	1253.6	1304.2	1348.1
25°	1098.2	1101.2	1158.1	1208.6	1262.0
27.5°	1003.2	1004.5	1063.4	1116.7	1173.6
30°	938.3	942.0	999.7	1054.9	1114.2
32.5°	873.4	877.7	934.2	991.2	1051.7
35°	776.1	779.8	832.2	888.2	951.2
37.5°	675.8	680.8	727.3	780.3	842.2
40°	610.9	618.3	659.4	709.3	770.1
42.5°	548.4	557.6	595.7	643.1	697.9
45°	465.4	474.3	505.5	543.8	593.5
47.5°	393.8	404.0	428.1	461.0	503.4
50°	353.2	362.8	385.0	409.4	449.5
52.5°	317.4	327.1	346.8	365.6	399.7
55°	267.5	278.7	294.8	306.0	331.2
57.5°	226.6	237.3	250.1	255.2	270.4
60°	199.3	211.2	222.8	222.3	230.4
62.5°	174.5	184.6	196.2	188.1	188.6
65°	134.2	145.3	158.4	138.4	125.8
67.5°	108.4	110.8	124.3	96.5	81.6
70°	96.3	96.3	100.0	74.7	62.2
72.5°	84.7	84.7	81.2	60.8	47.6
75°	67.5	67.5	61.4	42.1	28.8
77.5°	52.0	51.4	47.0	31.4	20.9
80°	41.7	41.7	37.9	24.8	16.7
82.5°	32.6	32.6	29.4	19.4	12.4
85°	18.9	18.9	17.4	11.3	6.8
87.5°	6.7	6.7	6.1	3.6	3.0
90°	0.0	0.0	0.0	0.0	0.0
92.5°	16.1	132.2	311.5	151.4	102.8
95°	48.2	244.4	837.0	544.3	381.4
97.5°	85.5	270.8	1102.4	1062.0	911.7
100°	114.4	287.1	1248.5	1318.0	1194.3
102.5°	141.7	301.9	1344.9	1531.1	1457.7
105°	188.7	326.1	1419.1	1836.1	1812.6
107.5°	234.9	354.6	1375.4	2080.8	2136.1
110°	267.0	378.8	1304.7	2186.3	2290.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	299.1	403.1	1242.1	2212.0	2389.9
115°	345.3	441.4	1140.1	2161.5	2410.7
117.5°	391.0	481.7	1080.3	2045.2	2337.3
120°	421.5	505.9	1041.8	1954.0	2260.2
122.5°	453.6	531.8	1017.7	1860.8	2162.2
125°	491.8	566.4	989.6	1719.0	2019.3
127.5°	529.5	599.8	969.9	1599.0	1862.7
130°	552.0	620.7	963.5	1515.4	1774.4
132.5°	572.9	644.7	953.9	1455.0	1674.9
135°	604.2	674.8	949.4	1355.5	1559.6
137.5°	633.9	704.9	935.4	1288.2	1442.0
140°	656.4	721.1	935.4	1239.7	1381.0
142.5°	678.9	743.6	927.4	1197.4	1316.8
145°	714.6	767.6	931.4	1152.2	1242.5
147.5°	747.9	799.3	929.0	1100.1	1174.7
150°	768.8	813.9	935.4	1077.2	1136.1
152.5°	791.3	834.8	933.8	1053.0	1105.6
155°	819.0	854.3	943.4	1020.5	1057.8
157.5°	852.3	882.5	941.4	1008.1	1030.1
160°	865.1	890.6	949.4	991.9	1007.7
162.5°	886.0	908.4	946.2	987.0	996.4
165°	905.3	919.0	955.5	969.8	983.6
167.5°	929.0	938.0	953.1	968.7	969.1
170°	935.4	941.3	959.5	957.7	967.5
172.5°	946.6	950.9	954.7	958.9	953.1
175°	957.5	953.5	957.5	949.4	947.4
177.5°	955.5	955.5	952.2	948.9	941.0
180°	947.4	947.4	947.4	947.4	947.4

(END OF REPORT)