

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: P522014

Luminaire Tested: **SQ4-WB-125U-125D-93050-1D-UNV-STD-W-4 (4500K)**

Issue Date: 5/5/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522014  
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-125U-125D-93050-1D-UNV-STD-W-4 (4500K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

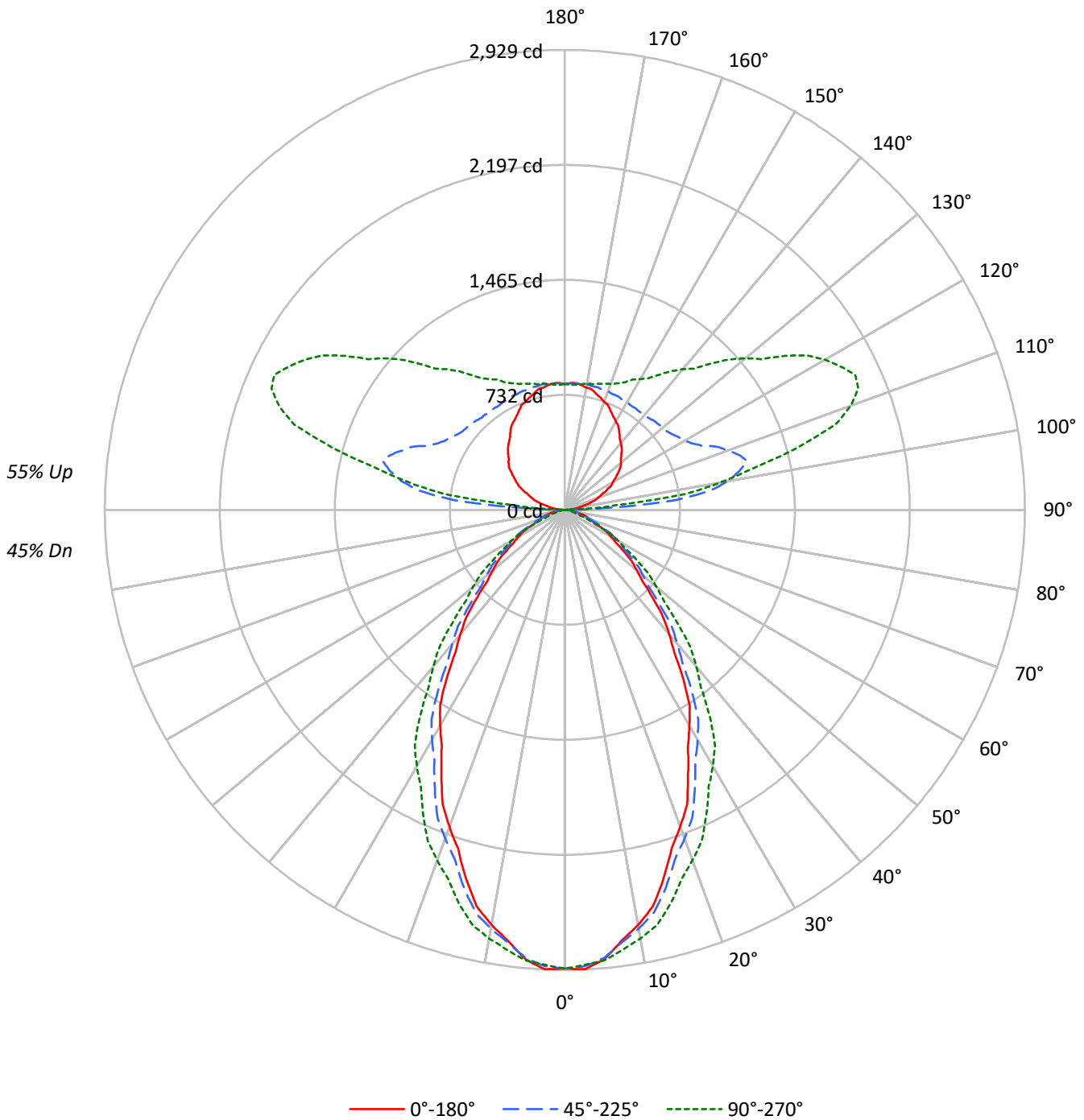
Lumens per Lamp: N/A  
Luminaire Lumens: 9448.3 lumens  
Efficiency: N/A  
Efficacy: 97.7 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 96.7  
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	106	106	106	106	97	97	97	97	81	81	81	65	65	65	52	52	52	45
1	98	94	90	87	90	86	83	81	72	70	68	59	58	57	47	46	46	40
2	90	83	78	73	82	77	72	68	64	61	58	53	51	49	43	41	40	35
3	83	74	67	62	76	68	63	58	58	54	50	48	45	43	39	37	35	31
4	76	66	59	54	70	61	55	50	52	47	44	44	40	38	36	33	31	28
5	70	60	52	47	65	55	49	44	47	42	39	40	36	33	33	30	28	25
6	65	54	46	41	60	50	44	39	43	38	34	36	33	30	30	27	25	22
7	61	49	42	36	56	46	39	34	39	34	31	33	30	27	28	25	23	20
8	56	45	38	33	52	42	35	31	36	31	28	31	27	24	26	23	21	19
9	53	41	34	29	49	39	32	28	33	28	25	29	25	22	24	21	19	17
10	49	38	31	27	46	36	29	25	31	26	23	27	23	20	22	20	18	16

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

	0°	45°	90°
0°	26954	26954	26954
5°	26617	26523	26677
10°	25148	25377	25965
15°	23215	23754	24819
20°	21082	21874	23322
25°	18909	19940	21728
30°	16907	18013	20075
35°	14785	15853	18120
40°	12444	13433	15686
45°	10270	11156	13096
50°	8575	9347	10911
55°	7279	8022	9011
60°	6220	6955	7191
65°	4953	5849	4646
70°	4392	4564	2835
75°	4067	3700	1736
80°	3746	3406	1498
85°	3387	3123	1217



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	268.0	2.8
10°-20°	697.0	7.4
20°-30°	902.8	9.6
30°-40°	884.1	9.4
40°-50°	676.7	7.2
50°-60°	450.9	4.8
60°-70°	246.1	2.6
70°-80°	102.5	1.1
80°-90°	29.0	0.3
90°-100°	413.3	4.4
100°-110°	998.9	10.6
110°-120°	1065.4	11.3
120°-130°	862.9	9.1
130°-140°	668.1	7.1
140°-150°	509.6	5.4
150°-160°	368.9	3.9
160°-170°	227.2	2.4
170°-180°	76.9	0.8
0°-30°	1867.8	19.8
0°-40°	2751.8	29.1
0°-60°	3879.5	41.1
0°-90°	4257.1	45.1
90°-120°	2477.6	26.2
90°-150°	4518.2	47.8
90°-180°	5191.0	54.9
0°-180°	9448.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2922	2922	2922	2922	2922	
5°	2874	2845	2864	2870	2880	267
15°	2430	2422	2487	2554	2598	679
25°	1858	1862	1959	2044	2134	854
35°	1313	1319	1408	1502	1609	816
45°	787	802	855	920	1004	614
55°	452	471	499	518	560	410
65°	227	246	268	234	213	236
75°	114	114	104	71	49	122
85°	32	32	30	19	12	35
90°	0	0	0	0	0	3
95°	41	207	708	460	323	46
105°	160	276	1201	1553	1533	169
115°	292	373	964	1829	2039	289
125°	416	479	837	1454	1708	371
135°	511	571	803	1147	1319	395
145°	604	649	788	975	1051	378
155°	693	723	798	863	895	320
165°	766	778	808	820	832	216
175°	810	807	810	803	802	77
180°	802	802	802	802	802	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2921.5	2921.5	2921.5	2921.5	2921.5
2.5°	2928.6	2902.6	2909.1	2909.0	2900.9
5°	2874.0	2845.2	2863.8	2870.4	2880.4
7.5°	2767.4	2745.6	2779.4	2804.5	2824.8
10°	2684.3	2665.5	2708.7	2745.2	2771.5
12.5°	2587.9	2572.1	2625.6	2674.6	2708.9
15°	2430.5	2421.7	2486.9	2554.5	2598.4
17.5°	2262.0	2257.8	2332.5	2411.5	2467.7
20°	2147.2	2145.9	2227.9	2310.2	2375.4
22.5°	2031.3	2034.1	2120.3	2205.8	2280.0
25°	1857.5	1862.5	1958.7	2044.1	2134.4
27.5°	1696.7	1699.0	1798.5	1888.6	1984.9
30°	1587.0	1593.3	1690.8	1784.1	1884.4
32.5°	1477.3	1484.5	1580.1	1676.5	1778.8
35°	1312.7	1318.9	1407.5	1502.2	1608.8
37.5°	1142.9	1151.5	1230.1	1319.7	1424.4
40°	1033.2	1045.7	1115.3	1199.6	1302.4
42.5°	927.6	943.1	1007.6	1087.6	1180.4
45°	787.1	802.1	855.0	919.8	1003.7
47.5°	666.1	683.4	724.0	779.7	851.4
50°	597.4	613.7	651.2	692.5	760.2
52.5°	536.9	553.2	586.6	618.4	676.1
55°	452.5	471.3	498.7	517.6	560.2
57.5°	383.3	401.3	423.0	431.6	457.4
60°	337.1	357.2	376.9	375.9	389.7
62.5°	295.1	312.1	331.8	318.2	318.9
65°	226.9	245.7	267.9	234.1	212.8
67.5°	183.3	187.3	210.2	163.3	137.9
70°	162.8	162.8	169.2	126.4	105.1
72.5°	143.3	143.3	137.4	102.8	80.5
75°	114.1	114.1	103.8	71.3	48.7
77.5°	87.9	86.9	79.5	53.2	35.4
80°	70.5	70.5	64.1	42.0	28.2
82.5°	55.1	55.1	49.7	32.8	21.0
85°	32.0	32.0	29.5	19.1	11.5
87.5°	11.3	11.3	10.3	6.1	5.1
90°	0.0	0.0	0.0	0.0	0.0
92.5°	13.6	111.9	263.5	128.1	86.9
95°	40.8	206.8	708.1	460.5	322.6
97.5°	72.3	229.1	932.6	898.5	771.3
100°	96.8	242.9	1056.2	1115.0	1010.4
102.5°	119.9	255.4	1137.7	1295.3	1233.2
105°	159.6	275.8	1200.6	1553.3	1533.4
107.5°	198.7	300.0	1163.5	1760.3	1807.1
110°	225.8	320.5	1103.8	1849.6	1937.6

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	253.0	341.0	1050.8	1871.3	2021.8
115°	292.1	373.4	964.5	1828.6	2039.4
117.5°	330.8	407.5	913.9	1730.2	1977.3
120°	356.6	428.0	881.3	1653.1	1912.1
122.5°	383.8	449.9	860.9	1574.2	1829.2
125°	416.0	479.1	837.2	1454.3	1708.3
127.5°	448.0	507.4	820.5	1352.7	1575.9
130°	467.0	525.1	815.1	1282.0	1501.1
132.5°	484.6	545.4	806.9	1230.9	1416.9
135°	511.1	570.9	803.2	1146.8	1319.4
137.5°	536.3	596.4	791.3	1089.8	1219.9
140°	555.3	610.1	791.3	1048.8	1168.3
142.5°	574.3	629.1	784.5	1013.0	1114.0
145°	604.5	649.4	787.9	974.8	1051.1
147.5°	632.7	676.2	785.9	930.6	993.7
150°	650.4	688.6	791.3	911.3	961.1
152.5°	669.4	706.3	790.0	890.8	935.3
155°	692.8	722.7	798.1	863.4	894.9
157.5°	721.0	746.6	796.4	852.9	871.5
160°	731.9	753.5	803.2	839.2	852.5
162.5°	749.5	768.5	800.5	835.0	842.9
165°	765.9	777.5	808.3	820.5	832.1
167.5°	785.9	793.5	806.3	819.5	819.9
170°	791.3	796.3	811.7	810.2	818.5
172.5°	800.8	804.5	807.6	811.2	806.3
175°	810.0	806.7	810.0	803.2	801.5
177.5°	808.3	808.3	805.6	802.7	796.1
180°	801.5	801.5	801.5	801.5	801.5

(END OF REPORT)