

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: P521988

Luminaire Tested: **SQ4-WB-125U-075D-93050-1D-UNV-STD-W-4 (4500K)**

Issue Date: 5/5/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P521988  
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-075D-93050-1D-UNV-STD-W-4 (4500K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

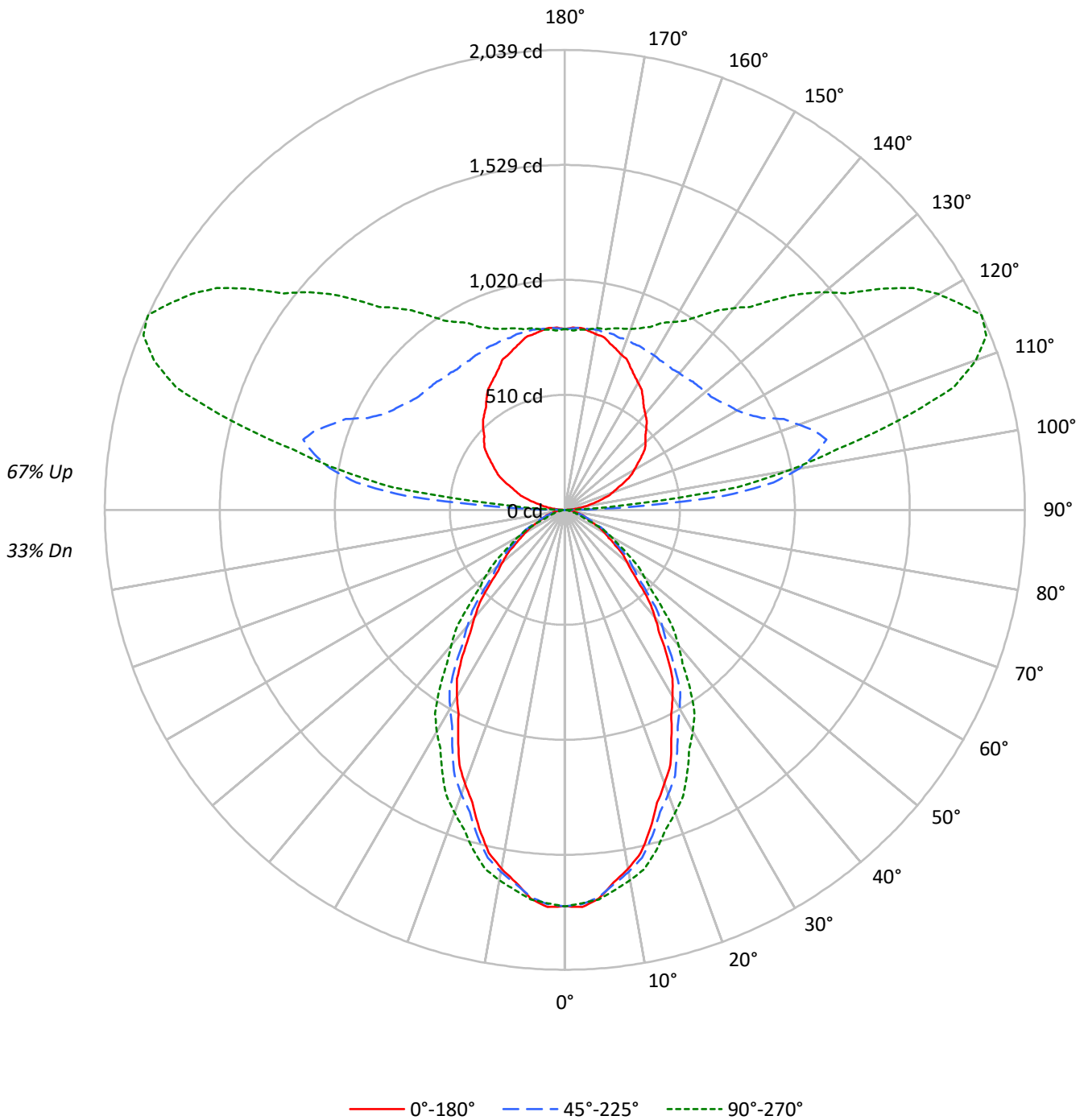
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7753.0 lumens  
Efficiency: N/A  
Efficacy: 106.5 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): 72.8  
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	50	30	10	0	
RCR																						
0	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41	33				
1	95	91	87	84	85	82	79	77	66	64	62	51	50	48	37	36	36	29				
2	87	80	75	70	78	73	68	64	59	55	53	46	43	42	33	32	31	26				
3	80	71	64	59	72	65	59	54	52	48	45	41	38	36	30	29	28	23				
4	73	63	56	51	66	58	52	47	47	43	39	37	34	32	28	26	24	20				
5	68	57	49	44	61	52	45	41	42	38	34	34	30	28	25	23	22	18				
6	62	51	44	38	56	47	40	36	38	34	30	31	27	25	23	21	20	16				
7	58	46	39	34	52	43	36	32	35	30	27	28	25	22	22	19	18	15				
8	54	42	35	30	49	39	32	28	32	27	24	26	23	20	20	18	16	14				
9	50	39	32	27	45	36	29	25	30	25	22	24	21	18	19	16	15	13				
10	47	36	29	24	43	33	27	23	27	23	20	22	19	17	17	15	14	12				

**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	2.1
10°-20°	419.4	5.4
20°-30°	543.3	7.0
30°-40°	532.0	6.9
40°-50°	407.2	5.3
50°-60°	271.4	3.5
60°-70°	148.1	1.9
70°-80°	61.7	0.8
80°-90°	17.5	0.2
90°-100°	413.3	5.3
100°-110°	998.9	12.9
110°-120°	1065.4	13.7
120°-130°	862.9	11.1
130°-140°	668.1	8.6
140°-150°	509.6	6.6
150°-160°	368.9	4.8
160°-170°	227.2	2.9
170°-180°	76.9	1.0
0°-30°	1124.0	14.5
0°-40°	1656.0	21.4
0°-60°	2334.5	30.1
0°-90°	2561.8	33.0
90°-120°	2477.6	32.0
90°-150°	4518.2	58.3
90°-180°	5191.0	67.0
0°-180°	7753.0	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°	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	

TEST NUMBER: P521988

CATALOG NUMBER: SQ4-WB-125U-075D-93050-1D-UNV-STD-W-4 (4500K)

**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°	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



TEST NUMBER: P521988

CATALOG NUMBER: SQ4-WB-125U-075D-93050-1D-UNV-STD-W-4 (4500K)

**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)