

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: P521975

Luminaire Tested: **SQ4-WB-125U-050D-93050-1D-UNV-STD-W-4 (4500K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P521975
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-050D-93050-1D-UNV-STD-W-4 (4500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

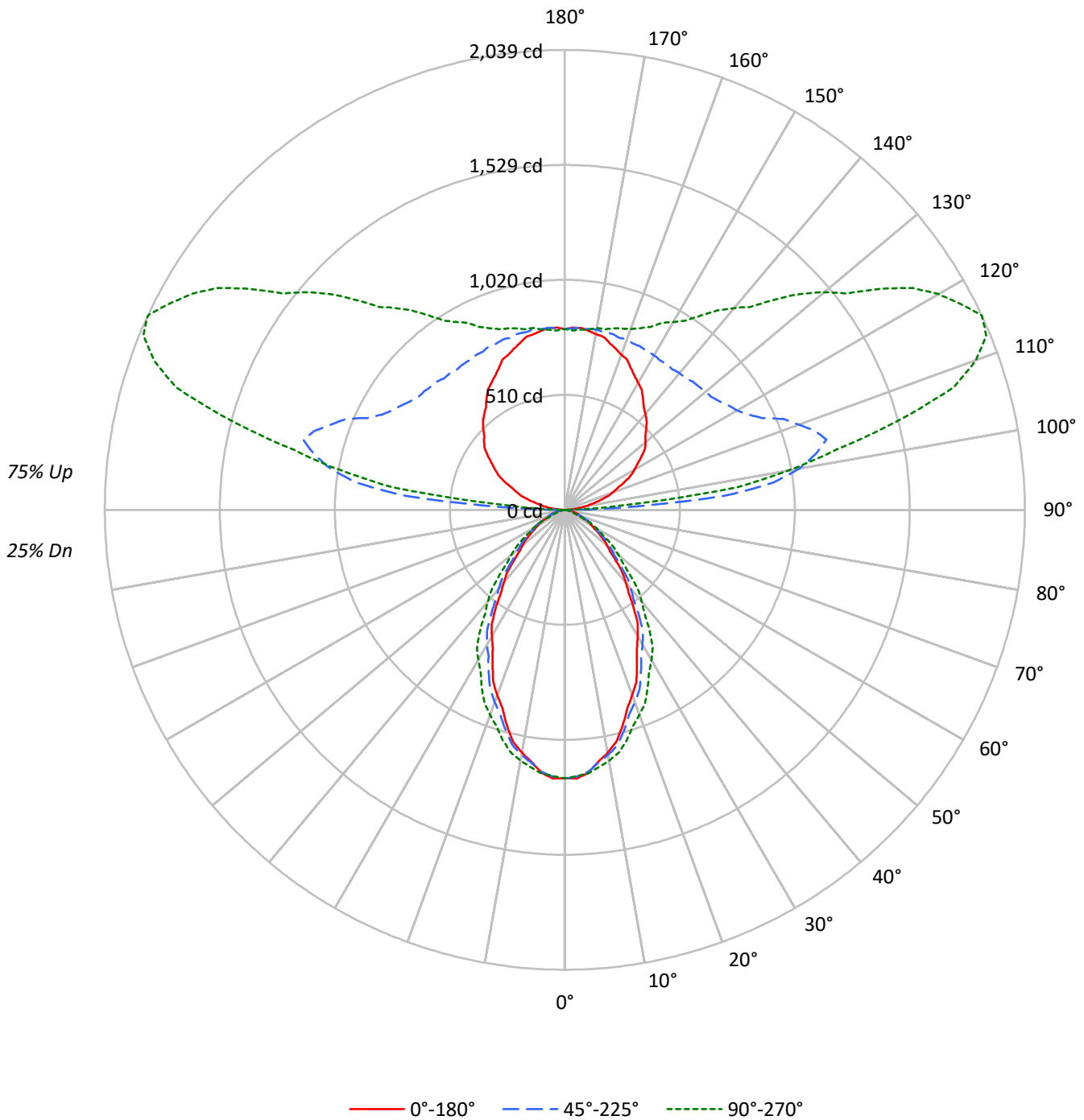
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6925.3 lumens
Efficiency: N/A
Efficacy: 111.5 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): 62.1
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	101	101	101	101	90	90	90	90	69	69	69	51	51	51	33	33	33	25
1	93	89	85	82	83	79	76	74	62	60	58	45	44	43	30	30	29	22
2	85	78	73	68	76	70	65	61	55	52	49	40	39	37	27	26	25	20
3	78	69	63	57	69	62	56	52	49	45	42	36	34	32	25	23	22	17
4	71	62	54	49	64	55	49	44	44	39	36	33	30	28	22	21	20	15
5	66	55	48	42	58	50	43	38	39	35	31	30	27	24	21	19	18	14
6	61	49	42	37	54	45	38	34	35	31	28	27	24	22	19	17	16	12
7	56	45	37	32	50	40	34	30	32	28	24	25	22	19	17	16	14	11
8	52	41	33	29	46	37	31	26	29	25	22	23	20	17	16	14	13	10
9	48	37	30	25	43	34	28	23	27	23	20	21	18	16	15	13	12	10
10	45	34	27	23	40	31	25	21	25	21	18	19	16	14	14	12	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10979	10979	10979
5°	10841	10803	10866
10°	10244	10336	10576
15°	9456	9676	10109
20°	8587	8910	9499
25°	7702	8122	8850
30°	6886	7337	8178
35°	6022	6457	7381
40°	5068	5472	6389
45°	4183	4545	5334
50°	3492	3807	4444
55°	2965	3267	3671
60°	2534	2832	2928
65°	2017	2382	1893
70°	1788	1859	1155
75°	1658	1508	706
80°	1525	1387	611
85°	1387	1270	498



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.1	1.6
10°-20°	283.9	4.1
20°-30°	367.7	5.3
30°-40°	360.1	5.2
40°-50°	275.6	4.0
50°-60°	183.7	2.7
60°-70°	100.2	1.4
70°-80°	41.8	0.6
80°-90°	11.8	0.2
90°-100°	413.3	6.0
100°-110°	998.9	14.4
110°-120°	1065.4	15.4
120°-130°	862.9	12.5
130°-140°	668.1	9.6
140°-150°	509.6	7.4
150°-160°	368.9	5.3
160°-170°	227.2	3.3
170°-180°	76.9	1.1
0°-30°	760.8	11.0
0°-40°	1120.9	16.2
0°-60°	1580.2	22.8
0°-90°	1734.0	25.0
90°-120°	2477.6	35.8
90°-150°	4518.2	65.2
90°-180°	5191.0	75.0
0°-180°	6925.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1190	1190	1190	1190	1190	
5°	1171	1159	1166	1169	1173	109
15°	990	986	1013	1040	1058	276
25°	757	759	798	833	869	348
35°	535	537	573	612	655	332
45°	321	327	348	375	409	250
55°	184	192	203	211	228	167
65°	92	100	109	95	87	96
75°	46	46	42	29	20	50
85°	13	13	12	8	5	14
90°	0	0	0	0	0	2
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: P521975

CATALOG NUMBER: SQ4-WB-125U-050D-93050-1D-UNV-STD-W-4 (4500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1190.0	1190.0	1190.0	1190.0	1190.0
2.5°	1192.9	1182.3	1185.0	1184.9	1181.6
5°	1170.6	1158.9	1166.5	1169.2	1173.3
7.5°	1127.2	1118.3	1132.1	1142.3	1150.6
10°	1093.4	1085.7	1103.3	1118.2	1128.9
12.5°	1054.1	1047.7	1069.5	1089.4	1103.4
15°	990.0	986.4	1013.0	1040.5	1058.4
17.5°	921.4	919.6	950.1	982.3	1005.1
20°	874.6	874.1	907.5	941.0	967.5
22.5°	827.4	828.5	863.6	898.5	928.7
25°	756.6	758.6	797.8	832.6	869.4
27.5°	691.1	692.0	732.6	769.3	808.5
30°	646.4	649.0	688.7	726.7	767.6
32.5°	601.7	604.7	643.6	682.9	724.5
35°	534.7	537.2	573.3	611.9	655.3
37.5°	465.5	469.0	501.0	537.5	580.2
40°	420.8	426.0	454.3	488.6	530.5
42.5°	377.8	384.2	410.4	443.0	480.8
45°	320.6	326.7	348.3	374.6	408.8
47.5°	271.3	278.4	294.9	317.6	346.8
50°	243.3	250.0	265.2	282.1	309.6
52.5°	218.7	225.3	238.9	251.9	275.4
55°	184.3	192.0	203.1	210.8	228.2
57.5°	156.1	163.5	172.3	175.8	186.3
60°	137.3	145.5	153.5	153.1	158.7
62.5°	120.2	127.1	135.1	129.6	129.9
65°	92.4	100.1	109.1	95.4	86.7
67.5°	74.7	76.3	85.6	66.5	56.2
70°	66.3	66.3	68.9	51.5	42.8
72.5°	58.4	58.4	56.0	41.9	32.8
75°	46.5	46.5	42.3	29.0	19.8
77.5°	35.8	35.4	32.4	21.7	14.4
80°	28.7	28.7	26.1	17.1	11.5
82.5°	22.5	22.5	20.3	13.4	8.6
85°	13.1	13.1	12.0	7.8	4.7
87.5°	4.6	4.6	4.2	2.5	2.1
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)