

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: CORELITE

Report Number: P520282

Luminaire Tested: **SQ4-F-125U-050D-930-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P520282
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G3-1910-536-17)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-F-125U-050D-930-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

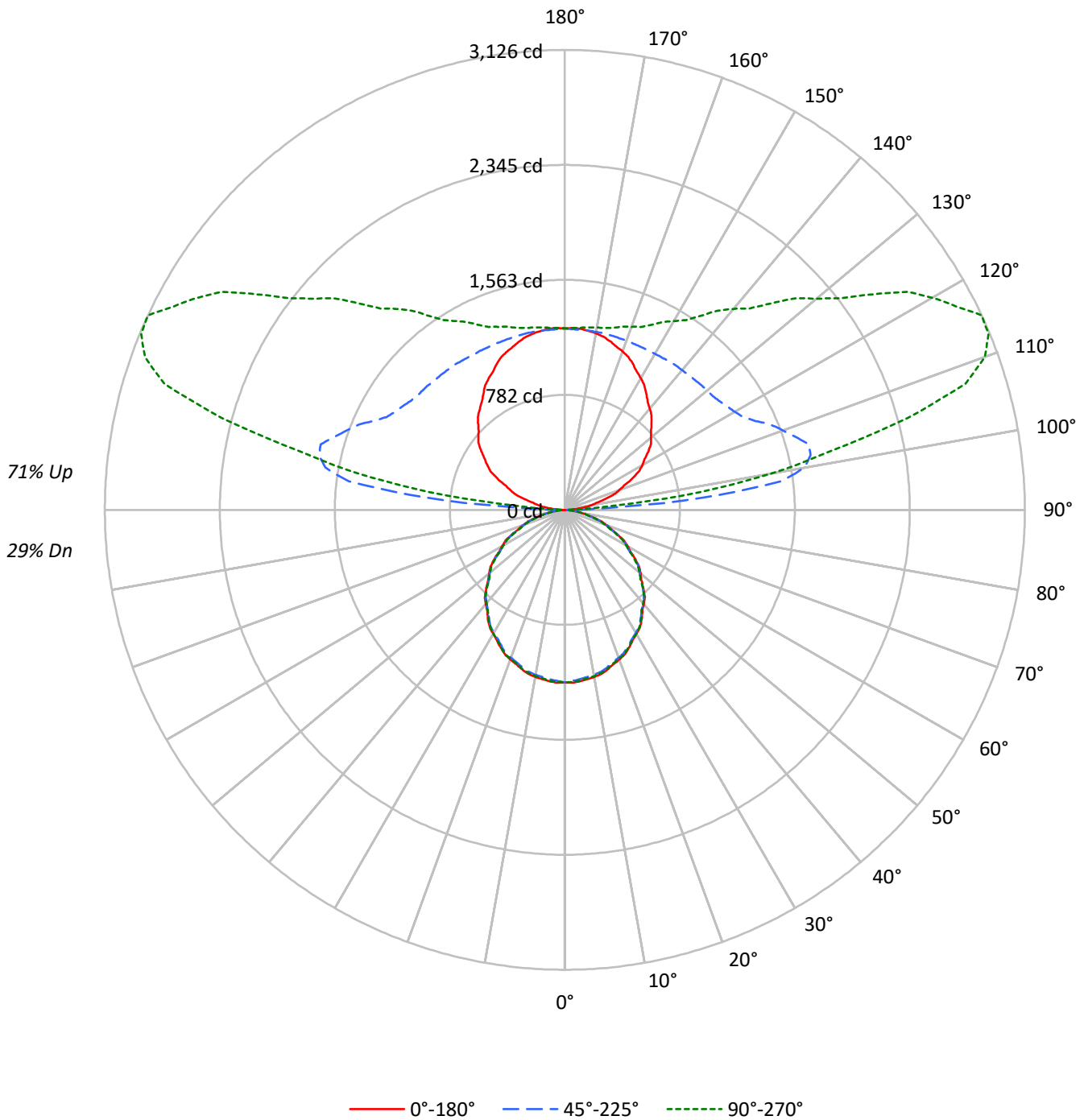
Lumens per Lamp: N/A
Luminaire Lumens: 11158.8 lumens
Efficiency: N/A
Efficacy: 125.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 89.1
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



TEST NUMBER: P520282
CATALOG NUMBER: SQ4-F-125U-050D-930-1D-UNV-STD-W-8

Luminous Intensity Polar Plot





TEST NUMBER: P520282

CATALOG NUMBER: SQ4-F-125U-050D-930-1D-UNV-STD-W-8

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	91	91	91	91	71	71	71	53	53	53	37	37	37	29
1	93	89	85	82	83	80	77	74	63	60	58	47	45	44	32	31	31	24
2	85	77	72	67	76	70	65	60	55	51	48	41	39	37	28	27	26	20
3	77	68	61	55	69	61	55	50	48	44	40	36	33	31	25	23	22	17
4	70	60	52	47	63	54	47	42	43	38	34	32	29	26	22	20	19	15
5	64	53	45	40	57	48	41	36	38	33	29	29	25	23	20	18	16	13
6	59	48	40	34	53	43	36	31	34	29	25	26	22	20	18	16	14	11
7	55	43	35	30	49	39	32	27	31	26	22	23	20	17	16	14	13	10
8	51	39	31	26	45	35	28	24	28	23	20	21	18	15	15	13	11	9
9	47	35	28	23	42	32	26	21	26	21	17	20	16	14	14	12	10	8
10	44	32	25	21	39	29	23	19	23	19	16	18	15	12	13	11	9	7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5408	5408	5408
5°	5421	5355	5399
10°	5403	5337	5374
15°	5366	5299	5344
20°	5316	5254	5293
25°	5256	5192	5240
30°	5182	5141	5174
35°	5126	5064	5090
40°	5028	4980	4990
45°	4924	4883	4883
50°	4821	4775	4752
55°	4707	4645	4620
60°	4532	4460	4430
65°	4317	4231	4180
70°	4022	3937	3853
75°	3608	3495	3413
80°	2917	2877	2792
85°	1741	1995	2075



TEST NUMBER: P520282

CATALOG NUMBER: SQ4-F-125U-050D-930-1D-UNV-STD-W-8

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.6	1.0
10°-20°	315.0	2.8
20°-30°	473.1	4.2
30°-40°	564.7	5.1
40°-50°	578.7	5.2
50°-60°	516.1	4.6
60°-70°	384.4	3.4
70°-80°	208.7	1.9
80°-90°	51.2	0.5
90°-100°	576.6	5.2
100°-110°	1553.1	13.9
110°-120°	1629.9	14.6
120°-130°	1322.7	11.9
130°-140°	1037.3	9.3
140°-150°	796.4	7.1
150°-160°	572.6	5.1
160°-170°	349.8	3.1
170°-180°	118.0	1.1
0°-30°	898.7	8.1
0°-40°	1463.4	13.1
0°-60°	2558.2	22.9
0°-90°	3202.4	28.7
90°-120°	3759.6	33.7
90°-150°	6916.0	62.0
90°-180°	7956.0	71.3
0°-180°	11158.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1172	1172	1172	1172	1172	
5°	1171	1169	1156	1168	1166	111
15°	1124	1121	1110	1119	1119	317
25°	1033	1030	1020	1026	1029	475
35°	910	907	899	899	904	568
45°	755	756	748	747	748	583
55°	585	585	578	573	574	521
65°	396	394	388	383	383	392
75°	202	201	196	193	192	214
85°	33	36	38	39	39	46
90°	3	9	19	20	20	7
95°	88	314	945	483	334	92
105°	287	447	1718	2570	2412	302
115°	507	621	1430	2764	3126	499
125°	692	795	1284	2171	2554	618
135°	834	930	1248	1751	1983	643
145°	964	1039	1232	1497	1608	605
155°	1094	1134	1222	1343	1386	504
165°	1187	1201	1226	1275	1281	335
175°	1234	1232	1228	1245	1242	117
180°	1232	1232	1232	1232	1232	



TEST NUMBER: P520282

CATALOG NUMBER: SQ4-F-125U-050D-930-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1172.3	1172.3	1172.3	1172.3	1172.3
2.5°	1176.1	1173.6	1163.4	1172.2	1171.0
5°	1170.7	1169.2	1156.5	1167.5	1166.0
7.5°	1162.3	1159.2	1146.9	1157.5	1156.0
10°	1153.5	1150.3	1139.3	1148.7	1147.2
12.5°	1142.1	1140.3	1128.0	1137.4	1137.1
15°	1123.6	1120.6	1109.5	1118.9	1118.9
17.5°	1099.2	1097.3	1086.6	1095.7	1094.4
20°	1082.8	1079.7	1070.3	1078.2	1078.2
22.5°	1062.8	1060.9	1051.4	1058.0	1059.3
25°	1032.6	1029.5	1020.1	1026.4	1029.4
27.5°	999.4	996.9	989.0	993.2	995.2
30°	972.9	972.9	965.2	966.8	971.4
32.5°	949.1	949.1	940.0	941.7	943.8
35°	910.2	907.2	899.2	899.3	903.9
37.5°	865.0	863.5	858.5	857.5	858.8
40°	834.9	833.3	827.0	828.6	828.6
42.5°	804.7	803.2	796.9	794.8	797.2
45°	754.8	756.4	748.5	747.0	748.5
47.5°	705.5	705.5	699.3	695.0	697.4
50°	671.7	671.7	665.4	662.2	662.2
52.5°	636.5	637.8	630.2	625.9	627.1
55°	585.3	585.3	577.5	572.8	574.4
57.5°	528.8	528.8	521.0	516.4	519.2
60°	491.2	491.2	483.4	478.6	480.2
62.5°	453.5	453.5	445.7	441.0	441.3
65°	395.5	393.9	387.6	382.9	382.9
67.5°	339.6	335.7	330.8	324.5	324.5
70°	298.2	296.6	291.9	285.7	285.7
72.5°	260.5	257.8	253.0	248.0	248.0
75°	202.4	200.9	196.1	193.0	191.5
77.5°	145.0	143.8	143.5	139.0	140.3
80°	109.8	109.8	108.3	105.1	105.1
82.5°	78.5	79.7	76.9	76.2	75.0
85°	32.9	36.0	37.7	39.2	39.2
87.5°	6.9	11.8	12.5	14.1	14.1
90°	3.2	9.3	18.8	20.4	20.4
92.5°	38.3	135.4	267.5	128.8	89.5
95°	87.9	313.6	945.2	483.3	334.4
97.5°	140.4	359.0	1482.4	1238.4	933.8
100°	180.6	377.0	1653.2	1729.8	1435.1
102.5°	219.4	402.5	1709.8	2097.8	1855.8
105°	287.3	447.0	1717.7	2569.7	2411.6
107.5°	351.4	493.9	1644.5	2812.2	2853.1
110°	394.1	529.2	1577.9	2887.6	3036.5



TEST NUMBER: P520282

CATALOG NUMBER: SQ4-F-125U-050D-930-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	439.3	564.6	1513.8	2870.9	3115.7
115°	507.2	620.7	1430.3	2763.7	3126.0
117.5°	568.9	675.5	1365.6	2592.5	2996.0
120°	609.2	712.0	1333.0	2469.7	2884.2
122.5°	644.3	746.0	1309.1	2344.0	2757.4
125°	692.4	795.3	1284.3	2170.7	2554.5
127.5°	738.6	839.9	1268.6	2017.7	2360.4
130°	766.2	867.5	1262.3	1930.1	2231.1
132.5°	793.8	893.9	1256.1	1853.0	2129.3
135°	833.7	930.4	1248.2	1751.1	1983.0
137.5°	871.7	964.4	1244.2	1664.8	1855.2
140°	898.1	987.1	1240.3	1611.6	1783.6
142.5°	925.7	1008.6	1237.8	1562.1	1706.9
145°	964.0	1039.2	1232.5	1497.2	1607.8
147.5°	1005.5	1070.9	1227.2	1442.7	1529.5
150°	1033.1	1089.9	1224.6	1408.4	1480.6
152.5°	1058.3	1107.7	1223.4	1380.5	1439.1
155°	1094.4	1134.2	1221.5	1343.4	1386.3
157.5°	1126.0	1157.0	1221.9	1317.3	1346.2
160°	1146.2	1172.2	1223.0	1302.1	1323.6
162.5°	1163.7	1184.9	1224.3	1289.3	1304.7
165°	1186.9	1200.7	1226.2	1275.0	1281.2
167.5°	1205.8	1213.8	1227.8	1264.0	1266.5
170°	1218.4	1221.5	1227.8	1257.6	1257.6
172.5°	1225.9	1226.5	1229.1	1251.4	1251.4
175°	1234.1	1232.5	1227.8	1244.9	1241.9
177.5°	1237.5	1235.1	1228.8	1238.7	1236.3
180°	1232.5	1232.5	1232.5	1232.5	1232.5

(END OF REPORT)