

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: P565116

Luminaire Tested: **SQ4-PW1-150U-050D-935-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P565116
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-150U-050D-935-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13822.2 lumens
Efficiency: N/A
Efficacy: 123.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Indirect

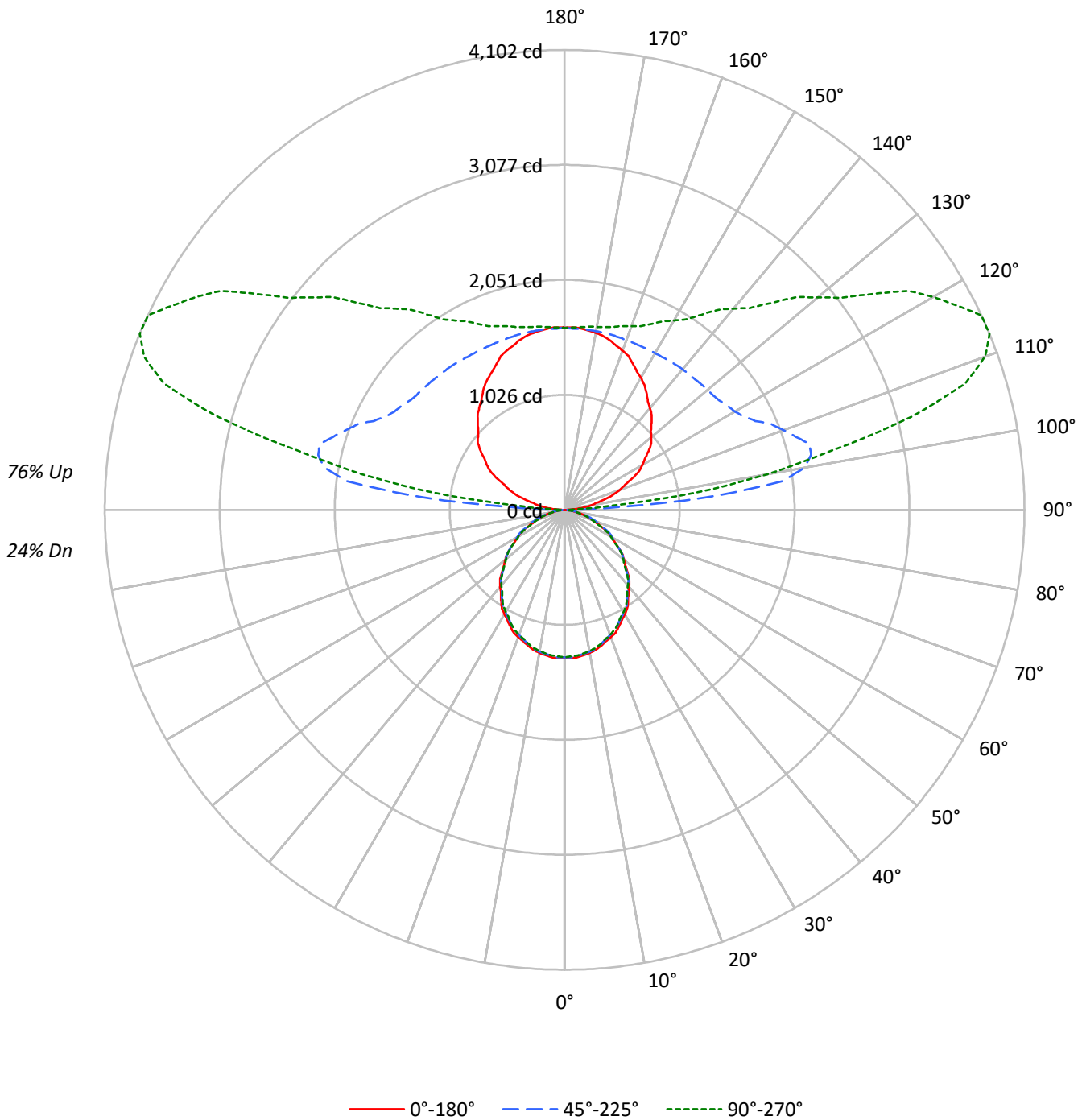
Input Watts (W): 111.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	50	50	50	32	32	32	24
1	92	88	84	81	82	78	75	72	60	58	57	44	43	42	29	28	27	21
2	84	77	71	66	74	68	64	59	53	50	47	39	37	35	25	24	23	17
3	76	67	60	55	68	60	54	50	47	43	39	34	32	29	22	21	20	15
4	70	60	52	46	62	53	47	42	41	37	33	30	27	25	20	18	17	13
5	64	53	45	39	57	47	41	36	37	32	29	27	24	22	18	16	15	11
6	59	47	40	34	52	42	36	31	33	28	25	24	21	19	16	14	13	10
7	54	43	35	30	48	38	32	27	30	25	22	22	19	17	15	13	11	9
8	50	38	31	26	45	35	28	24	27	22	19	20	17	15	14	12	10	8
9	47	35	28	23	41	31	25	21	25	20	17	18	15	13	13	11	9	7
10	43	32	25	20	39	29	23	19	23	18	15	17	14	12	12	10	8	6

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6075	6075	6075
5°	6114	6066	6039
10°	6066	6016	5984
15°	6001	5934	5912
20°	5929	5838	5827
25°	5847	5740	5723
30°	5723	5637	5599
35°	5561	5482	5450
40°	5387	5303	5282
45°	5177	5110	5087
50°	4963	4921	4888
55°	4732	4732	4657
60°	4442	4528	4368
65°	4065	4268	3965
70°	3584	3928	3489
75°	3060	3515	2978
80°	2372	2959	2404
85°	1535	2271	2027



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.0	0.9
10°-20°	350.1	2.5
20°-30°	519.3	3.8
30°-40°	607.7	4.4
40°-50°	604.9	4.4
50°-60°	522.4	3.8
60°-70°	376.0	2.7
70°-80°	197.2	1.4
80°-90°	52.3	0.4
90°-100°	754.6	5.5
100°-110°	2040.2	14.8
110°-120°	2145.0	15.5
120°-130°	1742.3	12.6
130°-140°	1366.7	9.9
140°-150°	1049.0	7.6
150°-160°	754.4	5.5
160°-170°	460.8	3.3
170°-180°	155.4	1.1
0°-30°	993.4	7.2
0°-40°	1601.1	11.6
0°-60°	2728.4	19.7
0°-90°	3353.9	24.3
90°-120°	4939.8	35.7
90°-150°	9097.7	65.8
90°-180°	10468.0	75.7
0°-180°	13822.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1317	1317	1317	1317	1317	
5°	1320	1306	1310	1306	1304	125
15°	1257	1241	1243	1240	1238	354
25°	1149	1129	1128	1121	1124	528
35°	987	974	974	964	968	617
45°	794	787	783	781	780	612
55°	588	587	588	580	579	525
65°	372	384	391	376	363	369
75°	172	188	197	184	167	184
85°	29	38	43	41	38	38
90°	4	10	23	24	23	9
95°	117	411	1255	649	386	123
105°	379	586	2263	3339	3202	399
115°	668	816	1877	3634	4102	659
125°	914	1047	1692	2855	3354	815
135°	1096	1226	1646	2305	2609	847
145°	1274	1370	1624	1973	2124	797
155°	1438	1495	1610	1770	1828	663
165°	1566	1581	1617	1680	1688	441
175°	1625	1624	1618	1639	1636	154
180°	1624	1624	1624	1624	1624	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1316.9	1316.9	1316.9	1316.9	1316.9
2.5°	1324.3	1313.4	1316.9	1314.0	1307.6
5°	1320.4	1305.6	1309.9	1306.4	1304.1
7.5°	1306.9	1293.3	1296.5	1292.7	1291.4
10°	1294.9	1281.2	1284.4	1279.7	1277.4
12.5°	1280.9	1266.4	1269.6	1264.9	1263.5
15°	1256.6	1240.7	1242.6	1240.3	1238.0
17.5°	1228.3	1212.1	1212.5	1208.7	1208.3
20°	1207.8	1190.8	1189.3	1184.7	1186.9
22.5°	1185.6	1167.6	1166.1	1159.6	1162.8
25°	1148.7	1129.4	1127.8	1120.9	1124.3
27.5°	1106.0	1086.9	1086.9	1077.3	1080.9
30°	1074.4	1056.3	1058.2	1046.7	1051.2
32.5°	1041.0	1024.6	1025.7	1014.2	1018.7
35°	987.4	973.8	973.5	964.3	967.7
37.5°	932.6	920.6	918.7	913.4	914.3
40°	894.6	884.4	880.6	877.2	877.2
42.5°	854.6	845.3	841.7	839.1	838.2
45°	793.6	786.8	783.2	780.8	779.7
47.5°	733.3	726.9	723.8	722.1	721.0
50°	691.5	687.0	685.7	682.2	681.1
52.5°	649.7	647.0	645.8	641.4	640.2
55°	588.3	587.1	588.3	580.1	579.0
57.5°	524.2	526.0	529.8	518.8	516.1
60°	481.5	486.0	490.8	477.9	473.4
62.5°	437.9	445.1	451.8	437.0	430.7
65°	372.4	383.8	391.0	375.6	363.2
67.5°	309.3	323.4	332.1	315.5	301.4
70°	265.7	281.6	291.2	274.6	258.7
72.5°	227.6	245.3	253.2	237.5	221.6
75°	171.7	187.6	197.2	184.1	167.1
77.5°	121.8	136.8	144.8	133.3	119.3
80°	89.3	105.2	111.4	101.8	90.5
82.5°	63.4	76.5	80.8	75.0	67.3
85°	29.0	38.1	42.9	40.6	38.3
87.5°	8.1	15.8	22.2	22.5	23.1
90°	3.5	10.3	22.7	24.4	22.7
92.5°	49.6	180.9	356.9	154.9	112.2
95°	117.1	411.0	1254.9	649.4	386.3
97.5°	188.1	471.4	1956.1	1618.8	1188.8
100°	241.2	495.8	2174.2	2267.5	1833.4
102.5°	290.1	529.7	2251.1	2759.3	2434.6
105°	379.3	586.0	2263.3	3338.6	3201.9
107.5°	461.8	650.4	2164.4	3700.0	3745.4
110°	526.1	697.0	2076.3	3797.0	3990.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	583.4	743.4	1995.2	3777.6	4102.0
115°	667.6	816.3	1877.1	3633.7	4102.0
117.5°	750.1	889.6	1799.1	3413.9	3944.7
120°	800.5	937.2	1753.0	3256.1	3797.9
122.5°	848.0	982.0	1725.0	3087.0	3632.9
125°	914.1	1047.4	1691.8	2854.9	3353.9
127.5°	974.9	1105.8	1672.2	2665.5	3104.4
130°	1008.5	1143.5	1663.9	2548.5	2945.0
132.5°	1043.4	1177.0	1655.5	2442.9	2807.9
135°	1095.8	1225.7	1646.4	2305.2	2609.4
137.5°	1148.6	1271.3	1638.7	2193.5	2441.3
140°	1185.0	1299.5	1635.9	2121.5	2342.0
142.5°	1219.9	1327.6	1630.3	2056.6	2249.7
145°	1274.1	1369.8	1623.7	1973.1	2123.5
147.5°	1323.4	1408.2	1616.0	1897.5	2013.1
150°	1359.7	1434.9	1613.2	1856.5	1948.7
152.5°	1393.3	1458.9	1611.8	1818.3	1894.2
155°	1438.4	1494.8	1609.7	1770.0	1828.1
157.5°	1485.2	1524.5	1610.0	1736.4	1774.7
160°	1511.8	1544.3	1611.4	1715.2	1742.5
162.5°	1532.8	1559.8	1612.8	1698.2	1718.7
165°	1566.0	1581.4	1616.7	1679.8	1688.3
167.5°	1588.7	1599.3	1617.0	1664.0	1668.1
170°	1602.7	1607.8	1618.4	1656.9	1656.9
172.5°	1613.9	1614.9	1618.4	1648.4	1647.1
175°	1625.4	1623.7	1618.4	1639.3	1635.9
177.5°	1629.3	1625.2	1618.1	1632.0	1627.9
180°	1623.7	1623.7	1623.7	1623.7	1623.7

(END OF REPORT)