

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: P565162

Luminaire Tested: **SQ4-PW1-150U-100D-935-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P565162
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-100D-935-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

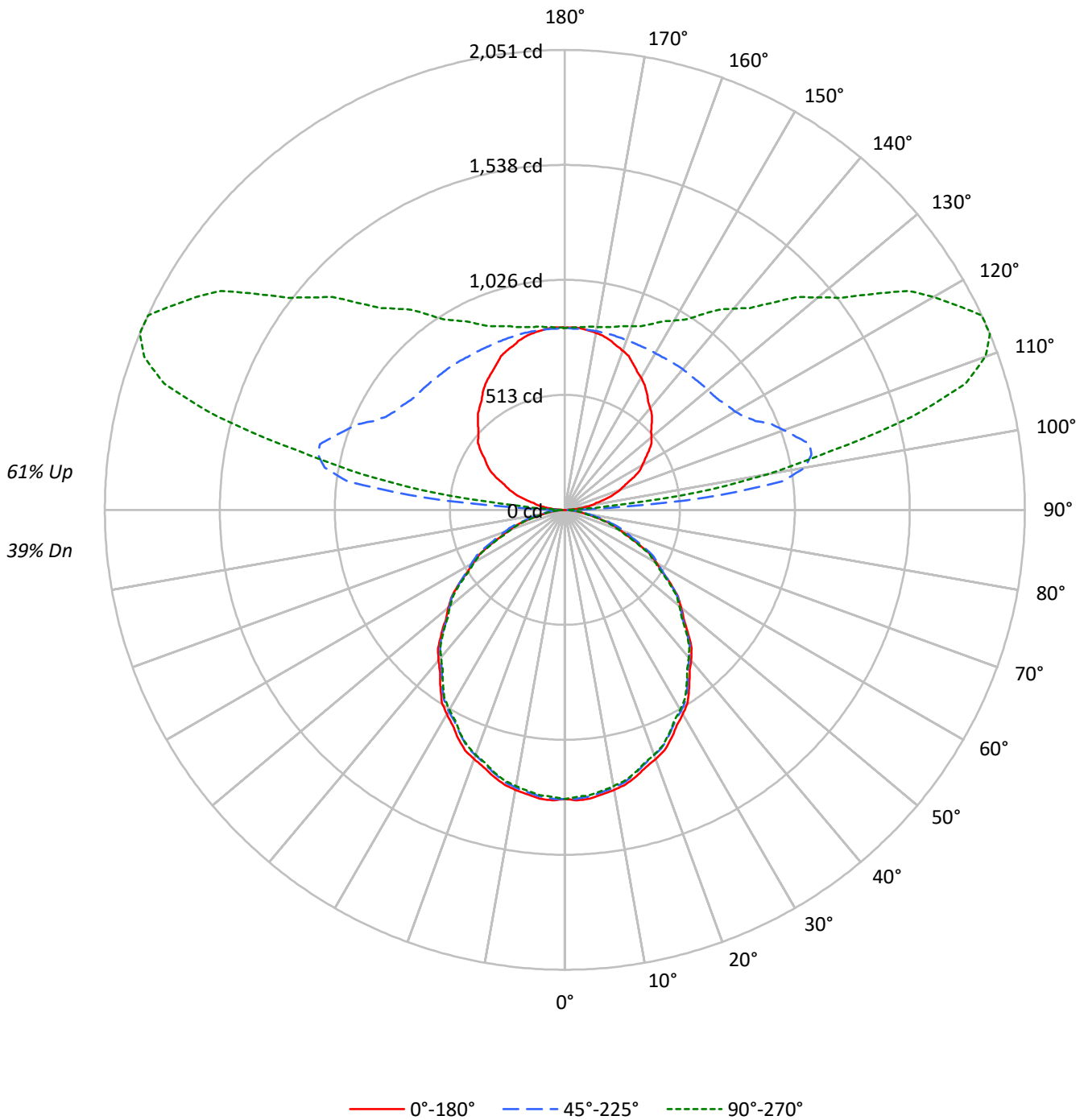
Lumens per Lamp: N/A
Luminaire Lumens: 8516.6 lumens
Efficiency: N/A
Efficacy: 117.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 72.3
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	104	104	104	104	95	95	95	95	77	77	77	61	61	61	46	46	46	39
1	95	91	87	84	86	83	80	77	68	65	63	53	52	51	40	39	39	33
2	87	80	74	69	79	73	67	63	59	56	52	47	44	42	36	34	33	27
3	79	70	63	57	72	64	58	53	52	48	44	42	38	36	32	30	28	23
4	72	62	54	48	66	57	50	45	46	41	38	37	33	31	28	26	24	20
5	66	55	47	41	60	50	43	38	41	36	32	33	29	27	25	23	21	17
6	61	49	41	36	55	45	38	33	37	32	28	30	26	23	23	20	18	15
7	56	44	37	31	51	41	34	29	34	29	25	27	23	20	21	18	16	14
8	52	40	33	27	47	37	30	26	31	26	22	25	21	18	19	17	15	12
9	49	37	29	24	44	34	27	23	28	23	20	23	19	16	18	15	13	11
10	45	34	27	22	41	31	25	20	26	21	18	21	17	15	17	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11897	11897	11897
5°	11974	11880	11827
10°	11878	11783	11718
15°	11752	11622	11579
20°	11612	11433	11411
25°	11449	11242	11207
30°	11207	11038	10966
35°	10889	10736	10672
40°	10549	10385	10345
45°	10139	10006	9962
50°	9719	9637	9572
55°	9265	9265	9119
60°	8700	8868	8553
65°	7962	8359	7763
70°	7019	7693	6836
75°	5992	6883	5832
80°	4649	5797	4707
85°	3006	4446	3970



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.4	1.4
10°-20°	342.8	4.0
20°-30°	508.5	6.0
30°-40°	595.0	7.0
40°-50°	592.3	7.0
50°-60°	511.5	6.0
60°-70°	368.2	4.3
70°-80°	193.1	2.3
80°-90°	49.6	0.6
90°-100°	377.3	4.4
100°-110°	1020.1	12.0
110°-120°	1072.5	12.6
120°-130°	871.2	10.2
130°-140°	683.3	8.0
140°-150°	524.5	6.2
150°-160°	377.2	4.4
160°-170°	230.4	2.7
170°-180°	77.7	0.9
0°-30°	972.7	11.4
0°-40°	1567.7	18.4
0°-60°	2671.6	31.4
0°-90°	3282.5	38.5
90°-120°	2469.9	29.0
90°-150°	4548.9	53.4
90°-180°	5234.0	61.5
0°-180°	8516.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1290	1290	1290	1290	1290	
5°	1293	1278	1283	1279	1277	122
15°	1230	1215	1217	1214	1212	347
25°	1125	1106	1104	1098	1101	517
35°	967	954	953	944	948	604
45°	777	770	767	765	764	600
55°	576	575	576	568	567	514
65°	365	376	383	368	356	361
75°	168	184	193	180	164	180
85°	28	37	42	40	38	37
90°	2	5	11	12	11	5
95°	58	206	627	325	193	61
105°	190	293	1132	1669	1601	200
115°	334	408	938	1817	2051	330
125°	457	524	846	1428	1677	407
135°	548	613	823	1153	1305	423
145°	637	685	812	987	1062	399
155°	719	747	805	885	914	332
165°	783	791	808	840	844	221
175°	813	812	809	820	818	77
180°	812	812	812	812	812	

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CATALOG NUMBER: SQ4-PW1-150U-100D-935-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1289.5	1289.5	1289.5	1289.5	1289.5
2.5°	1296.7	1286.1	1289.5	1286.6	1280.4
5°	1292.9	1278.4	1282.7	1279.2	1277.0
7.5°	1279.7	1266.4	1269.5	1265.8	1264.5
10°	1267.9	1254.6	1257.7	1253.1	1250.8
12.5°	1254.3	1240.0	1243.1	1238.5	1237.2
15°	1230.4	1214.8	1216.8	1214.4	1212.2
17.5°	1202.7	1186.9	1187.2	1183.6	1183.1
20°	1182.7	1166.0	1164.5	1160.0	1162.2
22.5°	1160.9	1143.3	1141.8	1135.5	1138.6
25°	1124.7	1105.9	1104.3	1097.5	1100.9
27.5°	1082.9	1064.3	1064.3	1054.8	1058.4
30°	1052.0	1034.3	1036.1	1024.9	1029.3
32.5°	1019.3	1003.3	1004.3	993.1	997.5
35°	966.8	953.5	953.2	944.2	947.5
37.5°	913.2	901.4	899.6	894.4	895.2
40°	875.9	865.9	862.3	858.9	858.9
42.5°	836.9	827.7	824.1	821.6	820.7
45°	777.1	770.4	766.9	764.6	763.5
47.5°	718.0	711.8	708.7	707.1	706.0
50°	677.1	672.7	671.4	668.0	666.9
52.5°	636.2	633.6	632.4	628.0	626.9
55°	576.0	574.9	576.0	568.0	566.9
57.5°	513.3	515.1	518.7	508.0	505.3
60°	471.5	475.9	480.6	468.0	463.5
62.5°	428.8	435.9	442.4	427.9	421.7
65°	364.7	375.8	382.9	367.8	355.6
67.5°	302.9	316.7	325.2	308.9	295.2
70°	260.2	275.7	285.2	268.9	253.4
72.5°	222.9	240.2	247.9	232.5	217.0
75°	168.1	183.7	193.1	180.3	163.6
77.5°	119.3	134.0	141.8	130.6	116.8
80°	87.5	103.0	109.1	99.7	88.6
82.5°	62.0	74.9	79.1	73.4	65.9
85°	28.4	37.3	42.0	39.7	37.5
87.5°	7.6	14.5	19.5	19.7	20.4
90°	1.7	5.2	11.4	12.2	11.4
92.5°	24.8	90.4	178.4	77.5	56.1
95°	58.5	205.5	627.4	324.7	193.1
97.5°	94.0	235.7	978.0	809.4	594.4
100°	120.6	247.9	1087.1	1133.7	916.7
102.5°	145.1	264.9	1125.6	1379.7	1217.3
105°	189.6	293.0	1131.7	1669.3	1600.9
107.5°	230.9	325.2	1082.2	1850.0	1872.7
110°	263.0	348.5	1038.2	1898.5	1995.1



TEST NUMBER: P565162

CATALOG NUMBER: SQ4-PW1-150U-100D-935-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	291.7	371.7	997.6	1888.8	2051.0
115°	333.8	408.2	938.5	1816.9	2051.0
117.5°	375.1	444.8	899.6	1706.9	1972.3
120°	400.2	468.6	876.5	1628.1	1898.9
122.5°	424.0	491.0	862.5	1543.5	1816.4
125°	457.0	523.7	845.9	1427.5	1677.0
127.5°	487.4	552.9	836.1	1332.8	1552.2
130°	504.2	571.7	831.9	1274.2	1472.5
132.5°	521.7	588.5	827.7	1221.5	1404.0
135°	547.9	612.9	823.2	1152.6	1304.7
137.5°	574.3	635.7	819.3	1096.7	1220.6
140°	592.5	649.7	817.9	1060.8	1171.0
142.5°	610.0	663.8	815.2	1028.3	1124.9
145°	637.1	684.9	811.8	986.6	1061.8
147.5°	661.7	704.1	808.0	948.8	1006.5
150°	679.9	717.5	806.6	928.2	974.4
152.5°	696.7	729.5	805.9	909.2	947.1
155°	719.2	747.4	804.8	885.0	914.1
157.5°	742.6	762.3	805.0	868.2	887.3
160°	755.9	772.1	805.7	857.6	871.3
162.5°	766.4	779.9	806.4	849.1	859.4
165°	783.0	790.7	808.3	839.9	844.2
167.5°	794.4	799.7	808.5	832.0	834.0
170°	801.3	803.9	809.2	828.4	828.4
172.5°	806.9	807.4	809.2	824.2	823.5
175°	812.7	811.8	809.2	819.7	817.9
177.5°	814.6	812.6	809.0	816.0	813.9
180°	811.8	811.8	811.8	811.8	811.8

(END OF REPORT)