

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: P563822

Luminaire Tested: **SQ4-PP3-150U-100D-940-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563822
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-150U-100D-940-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

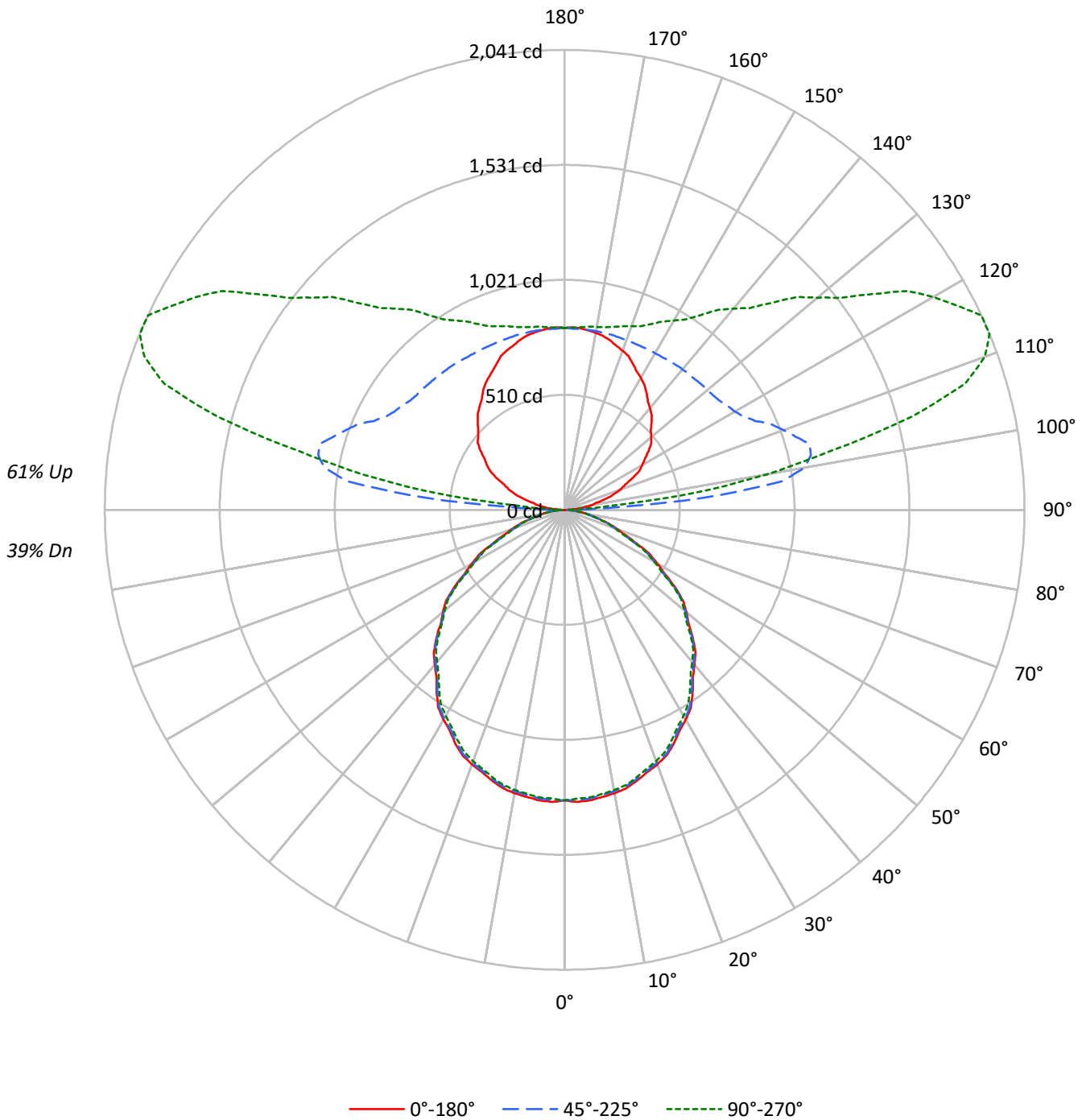
Lumens per Lamp: N/A
Luminaire Lumens: 8509.4 lumens
Efficiency: N/A
Efficacy: 117.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11896	11896	11896
5°	11983	11910	11869
10°	11964	11878	11826
15°	11884	11819	11754
20°	11806	11739	11650
25°	11665	11585	11470
30°	11449	11389	11245
35°	11149	11074	10933
40°	10793	10725	10602
45°	10498	10425	10321
50°	10122	10056	9960
55°	9598	9471	9397
60°	8737	8486	8446
65°	7698	7377	7353
70°	6647	6372	6372
75°	5721	5639	5557
80°	5042	5106	4984
85°	3949	4308	4308



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.9	1.4
10°-20°	348.1	4.1
20°-30°	521.5	6.1
30°-40°	611.6	7.2
40°-50°	613.6	7.2
50°-60°	523.4	6.2
60°-70°	341.4	4.0
70°-80°	171.3	2.0
80°-90°	49.1	0.6
90°-100°	375.4	4.4
100°-110°	1014.9	11.9
110°-120°	1067.1	12.5
120°-130°	866.7	10.2
130°-140°	679.9	8.0
140°-150°	521.8	6.1
150°-160°	375.3	4.4
160°-170°	229.3	2.7
170°-180°	77.3	0.9
0°-30°	991.5	11.7
0°-40°	1603.2	18.8
0°-60°	2740.1	32.2
0°-90°	3301.8	38.8
90°-120°	2457.4	28.9
90°-150°	4525.8	53.2
90°-180°	5208.0	61.2
0°-180°	8509.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1289	1289	1289	1289	1289	
5°	1294	1282	1286	1282	1282	123
15°	1244	1232	1237	1233	1231	351
25°	1146	1133	1138	1128	1127	527
35°	990	980	983	972	971	618
45°	805	799	799	791	791	620
55°	597	594	589	585	584	530
65°	353	346	338	336	337	352
75°	160	160	158	157	156	174
85°	37	41	41	41	41	44
90°	2	5	11	12	11	5
95°	58	204	624	323	192	61
105°	189	292	1126	1661	1593	199
115°	332	406	934	1808	2041	328
125°	455	521	842	1420	1668	405
135°	545	610	819	1147	1298	421
145°	634	681	808	982	1056	397
155°	716	744	801	880	909	330
165°	779	787	804	836	840	219
175°	809	808	805	816	814	77
180°	808	808	808	808	808	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1289.4	1289.4	1289.4	1289.4	1289.4
2.5°	1297.5	1286.9	1289.4	1287.5	1282.2
5°	1293.9	1281.8	1286.0	1281.5	1281.5
7.5°	1285.1	1271.8	1276.1	1271.5	1271.3
10°	1277.0	1263.7	1267.9	1263.4	1262.3
12.5°	1265.2	1252.0	1257.1	1251.7	1251.4
15°	1244.2	1232.0	1237.4	1232.8	1230.6
17.5°	1220.5	1207.2	1213.7	1207.3	1206.5
20°	1202.4	1189.1	1195.6	1186.6	1186.6
22.5°	1180.7	1167.4	1174.8	1163.1	1163.1
25°	1145.9	1132.6	1138.0	1127.8	1126.7
27.5°	1104.5	1091.5	1097.1	1085.5	1085.3
30°	1074.7	1062.5	1069.0	1056.6	1055.5
32.5°	1042.1	1030.9	1035.6	1023.1	1022.0
35°	989.9	980.0	983.2	971.8	970.7
37.5°	935.0	924.8	928.5	918.7	918.3
40°	896.1	889.5	890.5	882.5	880.3
42.5°	860.0	852.5	853.4	845.5	845.1
45°	804.6	799.1	799.0	791.0	791.0
47.5°	745.8	741.6	740.4	733.9	733.6
50°	705.2	701.8	700.6	695.0	693.9
52.5°	662.7	661.1	657.2	652.5	652.3
55°	596.7	594.5	588.8	585.3	584.2
57.5°	525.0	520.6	514.2	509.2	510.1
60°	473.5	469.1	459.9	457.7	457.7
62.5°	423.8	418.5	409.3	406.2	408.0
65°	352.6	346.0	337.9	335.7	336.8
67.5°	287.9	282.0	273.2	273.2	272.3
70°	246.4	243.0	236.2	236.2	236.2
72.5°	209.3	207.7	202.7	202.7	201.8
75°	160.5	160.5	158.2	157.1	155.9
77.5°	120.2	120.7	119.6	118.4	116.4
80°	94.9	97.1	96.1	94.9	93.8
82.5°	71.4	73.6	73.5	71.4	71.2
85°	37.3	40.6	40.7	40.7	40.7
87.5°	10.3	14.5	16.7	16.9	17.6
90°	1.7	5.1	11.3	12.2	11.3
92.5°	24.7	90.0	177.5	77.1	55.8
95°	58.3	204.5	624.3	323.1	192.1
97.5°	93.6	234.5	973.1	805.3	591.4
100°	120.0	246.6	1081.6	1128.0	912.0
102.5°	144.3	263.5	1119.8	1372.6	1211.1
105°	188.7	291.5	1125.9	1660.8	1592.8
107.5°	229.7	323.6	1076.7	1840.6	1863.2
110°	261.7	346.7	1032.9	1888.9	1984.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	290.2	369.8	992.6	1879.2	2040.6
115°	332.1	406.1	933.8	1807.6	2040.6
117.5°	373.2	442.5	895.0	1698.3	1962.3
120°	398.2	466.2	872.0	1619.8	1889.3
122.5°	421.9	488.5	858.1	1535.7	1807.2
125°	454.7	521.0	841.6	1420.2	1668.5
127.5°	485.0	550.1	831.9	1326.0	1544.3
130°	501.7	568.8	827.7	1267.8	1465.0
132.5°	519.1	585.5	823.5	1215.3	1396.8
135°	545.1	609.7	819.0	1146.7	1298.1
137.5°	571.4	632.4	815.2	1091.2	1214.4
140°	589.5	646.4	813.8	1055.4	1165.0
142.5°	606.9	660.4	811.0	1023.1	1119.1
145°	633.8	681.4	807.7	981.6	1056.4
147.5°	658.3	700.5	803.9	944.0	1001.4
150°	676.4	713.8	802.5	923.5	969.4
152.5°	693.1	725.8	801.8	904.6	942.3
155°	715.5	743.6	800.8	880.5	909.4
157.5°	738.8	758.4	800.9	863.8	882.8
160°	752.1	768.2	801.6	853.2	866.8
162.5°	762.5	775.9	802.3	844.8	855.0
165°	779.0	786.7	804.2	835.6	839.9
167.5°	790.3	795.6	804.4	827.8	829.8
170°	797.3	799.8	805.1	824.2	824.2
172.5°	802.8	803.3	805.1	820.0	819.4
175°	808.6	807.7	805.1	815.5	813.8
177.5°	810.5	808.4	804.9	811.8	809.8
180°	807.7	807.7	807.7	807.7	807.7

(END OF REPORT)