

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: P845139

Luminaire Tested: **SQ4P-PP3-150U-100D-B40-1D-UNV**

Issue Date: 8/14/2023



Test Information

Test Method: LM-79-08
Report Number: P845139
REPORT IS A COMBINATION OF REPORTS P700145 AND P700248
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-PP3-150U-100D-B40-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 1500 LUMENS PER FOOT
UPLIGHT, 1000 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

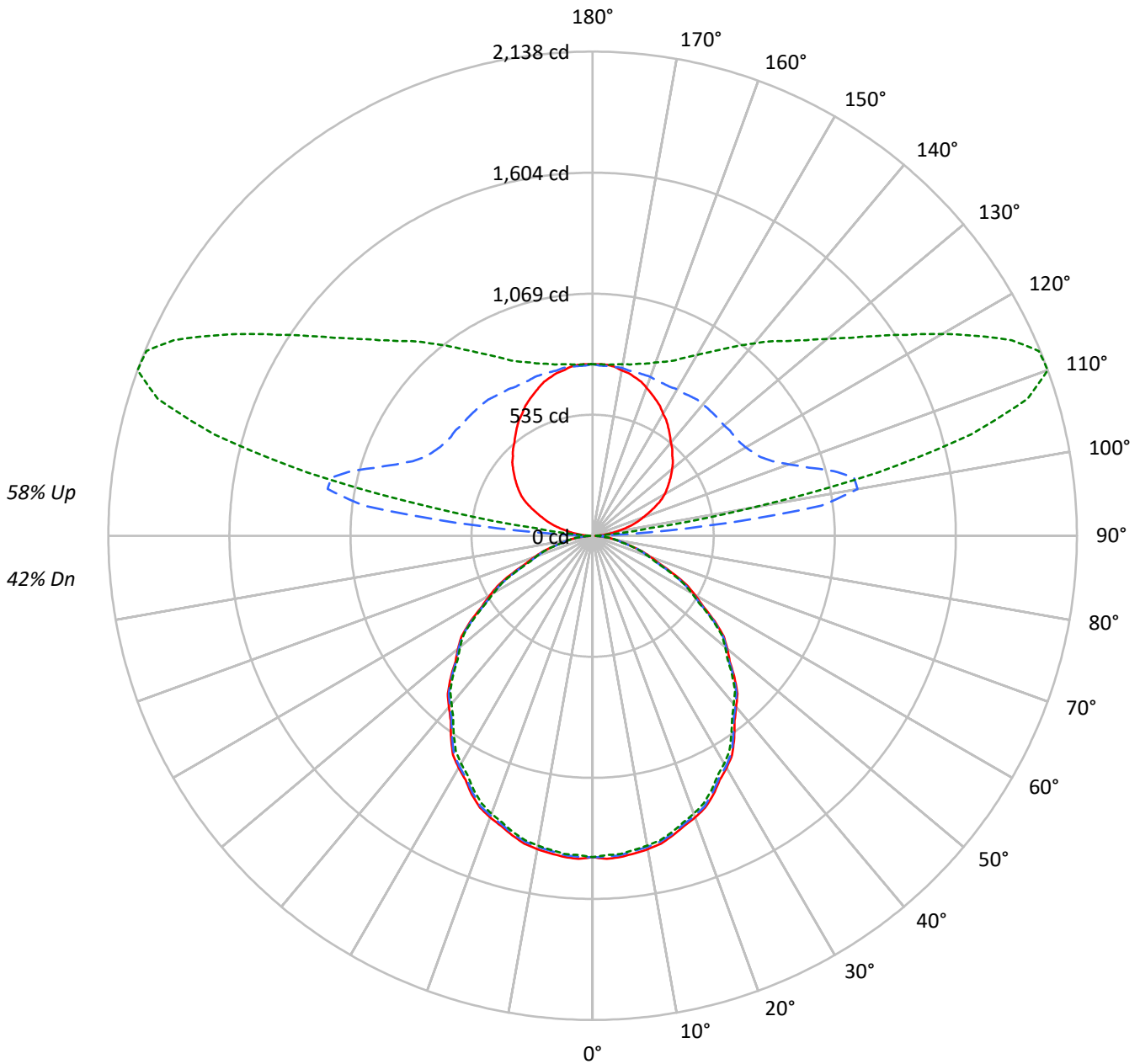
Lumens per Lamp: N/A
Luminaire Lumens: 8552.5 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 77.9
Input Voltage (V): NR
Input Current (A_{in}): 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: 25 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	50	30	10	0					
RCR																										
0	105	105	105	105	96	96	96	96	79	79	79	64	64	64	49	49	49	42								
1	96	92	88	85	88	84	81	78	70	67	65	56	55	53	44	43	42	36								
2	88	81	75	70	80	74	69	64	61	57	54	49	47	45	39	37	36	31								
3	80	71	64	58	73	65	59	54	54	49	46	44	41	38	34	32	30	26								
4	73	63	55	49	67	58	51	46	48	43	39	39	35	33	31	28	26	22								
5	67	56	48	42	61	51	44	39	43	38	34	35	31	28	28	25	23	19								
6	62	50	42	36	56	46	39	34	39	33	29	32	28	25	25	22	20	17								
7	57	45	37	32	52	42	35	30	35	30	26	29	25	22	23	20	18	15								
8	53	41	33	28	48	38	31	26	32	27	23	26	22	19	21	18	16	14								
9	49	37	30	25	45	35	28	23	29	24	20	24	20	17	19	17	14	12								
10	46	34	27	22	42	32	25	21	27	22	18	22	18	16	18	15	13	11								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13093	13093	13093
5°	13188	13108	13062
10°	13167	13074	13016
15°	13080	13008	12937
20°	12993	12919	12822
25°	12838	12750	12624
30°	12601	12535	12375
35°	12271	12188	12032
40°	11878	11803	11669
45°	11555	11474	11359
50°	11138	11068	10960
55°	10562	10423	10345
60°	9616	9341	9294
65°	8473	8117	8091
70°	7310	7011	7011
75°	6299	6206	6114
80°	5552	5616	5478
85°	4340	4742	4742



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.2	1.6
10°-20°	383.2	4.5
20°-30°	573.9	6.7
30°-40°	673.2	7.9
40°-50°	675.2	7.9
50°-60°	576.1	6.7
60°-70°	375.7	4.4
70°-80°	188.5	2.2
80°-90°	54.0	0.6
90°-100°	301.6	3.5
100°-110°	1049.5	12.3
110°-120°	1016.6	11.9
120°-130°	797.5	9.3
130°-140°	631.2	7.4
140°-150°	487.1	5.7
150°-160°	349.2	4.1
160°-170°	213.6	2.5
170°-180°	72.2	0.8
0°-30°	1091.3	12.8
0°-40°	1764.4	20.6
0°-60°	3015.7	35.3
0°-90°	3633.9	42.5
90°-120°	2367.8	27.7
90°-150°	4283.6	50.1
90°-180°	4919.0	57.5
0°-180°	8552.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1419	1419	1419	1419	1419	
5°	1424	1411	1415	1410	1410	135
15°	1369	1356	1362	1357	1354	386
25°	1261	1246	1252	1241	1240	580
35°	1090	1079	1082	1070	1068	681
45°	886	879	879	871	871	682
55°	657	654	648	644	643	584
65°	388	381	372	370	371	387
75°	177	177	174	173	172	192
85°	41	45	45	45	45	48
90°	11	17	17	11	6	8
95°	51	175	509	130	79	54
105°	175	249	1103	1861	1731	184
115°	305	368	820	1731	2042	302
125°	413	509	764	1290	1538	370
135°	498	560	758	1075	1216	386
145°	583	622	752	928	1007	364
155°	662	684	741	826	854	305
165°	724	730	747	780	786	204
175°	758	758	752	764	758	72
180°	758	758	758	758	758	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1419.1	1419.1	1419.1	1419.1	1419.1
2.5°	1427.9	1416.4	1419.1	1417.0	1411.2
5°	1424.0	1410.8	1415.3	1410.4	1410.4
7.5°	1414.4	1399.8	1404.4	1399.4	1399.2
10°	1405.4	1390.8	1395.5	1390.4	1389.3
12.5°	1392.5	1378.0	1383.5	1377.5	1377.3
15°	1369.4	1355.9	1361.9	1356.8	1354.4
17.5°	1343.2	1328.7	1335.8	1328.9	1327.8
20°	1323.3	1308.7	1315.8	1305.9	1305.9
22.5°	1299.5	1284.9	1293.0	1279.9	1279.9
25°	1261.1	1246.5	1252.5	1241.2	1240.1
27.5°	1215.6	1201.3	1207.5	1194.7	1194.4
30°	1182.8	1169.4	1176.6	1162.9	1161.6
32.5°	1147.0	1134.6	1139.7	1126.1	1124.7
35°	1089.5	1078.6	1082.1	1069.7	1068.3
37.5°	1029.0	1017.9	1021.8	1011.0	1010.6
40°	986.2	978.9	980.0	971.2	968.9
42.5°	946.5	938.1	939.2	930.4	930.0
45°	885.6	879.4	879.4	870.6	870.6
47.5°	820.9	816.1	814.9	807.5	807.3
50°	776.0	772.4	771.1	764.9	763.6
52.5°	729.3	727.6	723.3	718.2	718.0
55°	656.6	654.2	648.0	644.1	643.1
57.5°	577.9	573.0	565.9	560.5	561.4
60°	521.1	516.1	506.2	503.7	503.7
62.5°	466.4	460.6	450.5	447.1	449.1
65°	388.1	380.8	371.8	369.5	370.6
67.5°	317.0	310.3	300.6	300.6	299.8
70°	271.0	267.4	259.9	259.9	259.9
72.5°	230.3	228.6	223.3	223.0	222.1
75°	176.7	176.7	174.1	172.9	171.5
77.5°	132.3	132.8	131.7	130.3	128.0
80°	104.5	107.0	105.7	104.5	103.1
82.5°	78.7	81.0	80.8	78.7	78.3
85°	41.0	44.6	44.8	44.8	44.8
87.5°	11.0	14.8	15.9	15.9	17.0
90°	11.3	17.0	17.0	11.3	5.6
92.5°	28.3	84.8	79.2	33.9	28.3
95°	50.9	175.3	509.0	130.0	79.2
97.5°	79.2	198.0	1018.1	463.8	248.9
100°	107.5	209.2	1187.8	1114.2	718.3
102.5°	141.4	226.3	1182.1	1566.7	1289.5
105°	175.3	248.9	1102.9	1860.8	1730.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	271.4	333.7	859.7	1872.1	2132.2
115°	305.4	367.7	820.1	1730.7	2041.8
117.5°	339.4	407.2	797.4	1600.6	1911.7
120°	367.7	441.1	780.5	1476.2	1781.6
122.5°	390.2	475.1	769.2	1374.4	1651.5
125°	412.9	509.0	763.5	1289.5	1538.4
127.5°	435.5	531.6	763.5	1227.3	1436.6
130°	458.2	543.0	757.9	1165.1	1351.7
132.5°	480.8	548.6	757.9	1119.8	1278.2
135°	497.7	559.9	757.9	1074.6	1216.0
137.5°	520.4	571.3	757.9	1035.1	1165.1
140°	537.3	588.2	757.9	995.4	1108.5
142.5°	559.9	605.2	757.9	955.9	1057.6
145°	582.6	622.1	752.2	927.6	1006.8
147.5°	605.2	639.1	746.6	899.3	961.5
150°	622.1	656.1	746.6	871.0	921.9
152.5°	644.8	673.0	740.9	842.7	888.0
155°	661.8	684.4	740.9	825.7	854.0
157.5°	678.7	701.3	740.9	808.8	831.5
160°	695.7	712.6	746.6	797.4	814.4
162.5°	712.6	724.0	746.6	786.2	797.4
165°	724.0	729.6	746.6	780.5	786.2
167.5°	735.2	740.9	746.6	774.9	774.9
170°	740.9	746.6	752.2	769.2	769.2
172.5°	752.2	752.2	752.2	763.5	763.5
175°	757.9	757.9	752.2	763.5	757.9
177.5°	757.9	757.9	752.2	763.5	757.9
180°	757.9	757.9	757.9	757.9	757.9



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







107.5°	209.2	277.2	1001.1	1990.8	2013.5
110°	237.5	305.4	921.9	1973.9	2137.9



(END OF REPORT)