

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: P845140

Luminaire Tested: **SQ4P-PP3-150U-100D-B50-1D-UNV**

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-08
Report Number: P845140
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-B50-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 1500 LUMENS PER FOOT
UPLIGHT, 1000 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

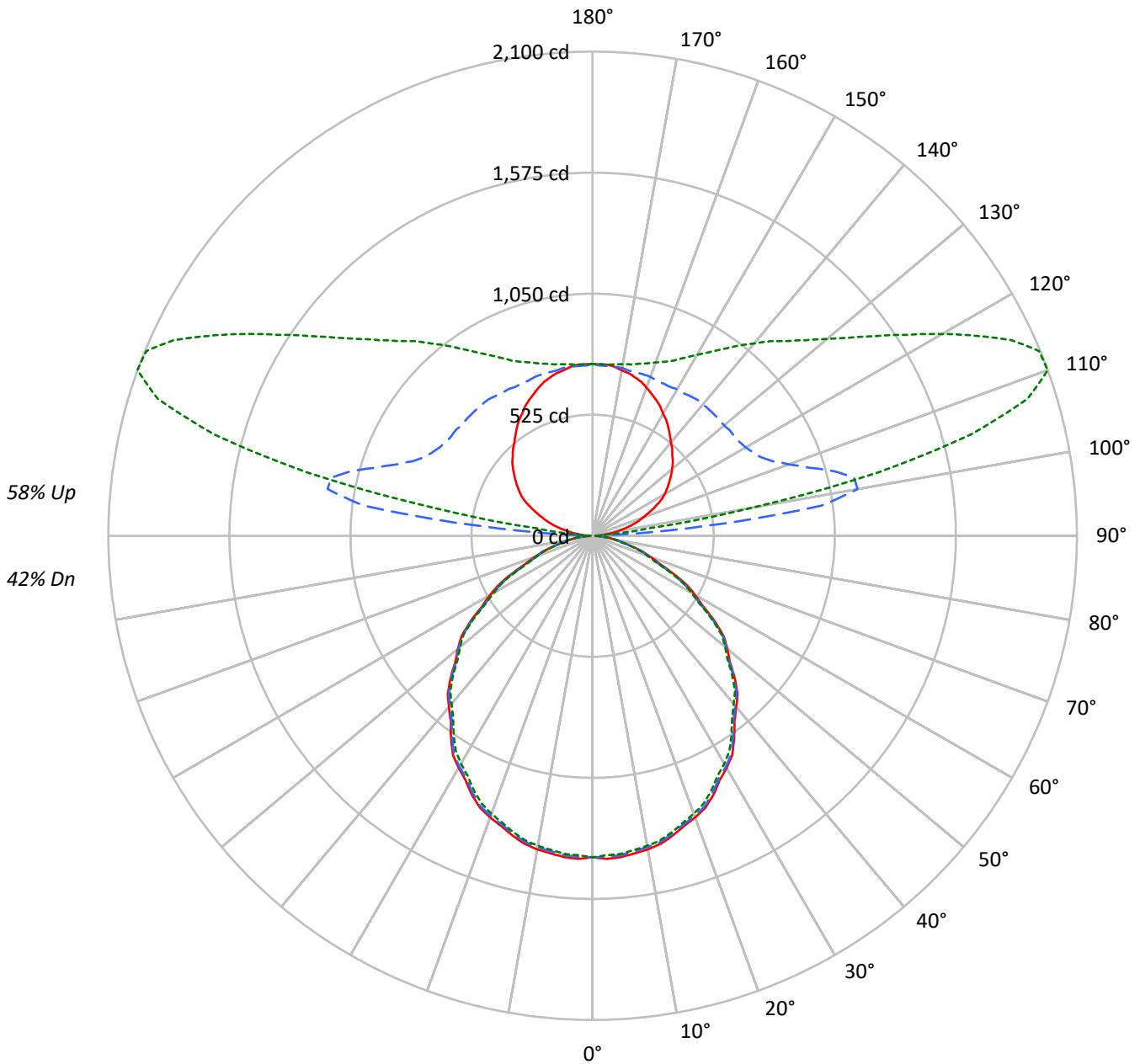
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8402.2 lumens
Efficiency: N/A
Efficacy: 107.9 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

TEST NUMBER: P845140
CATALOG NUMBER: SQ4P-PP3-150U-100D-B50-1D-UNV

Luminous Intensity Polar Plot





TEST NUMBER: P845140

CATALOG NUMBER: SQ4P-PP3-150U-100D-B50-1D-UNV

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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°	12862	12862	12862
5°	12957	12877	12833
10°	12935	12844	12787
15°	12850	12780	12708
20°	12764	12692	12596
25°	12613	12526	12402
30°	12379	12314	12158
35°	12056	11973	11821
40°	11669	11596	11463
45°	11353	11273	11160
50°	10943	10873	10768
55°	10377	10240	10163
60°	9446	9176	9132
65°	8324	7975	7949
70°	7184	6887	6887
75°	6188	6099	6007
80°	5451	5520	5382
85°	4266	4658	4658



TEST NUMBER: P845140

CATALOG NUMBER: SQ4P-PP3-150U-100D-B50-1D-UNV

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.8	1.6
10°-20°	376.4	4.5
20°-30°	563.8	6.7
30°-40°	661.3	7.9
40°-50°	663.4	7.9
50°-60°	565.9	6.7
60°-70°	369.1	4.4
70°-80°	185.2	2.2
80°-90°	53.1	0.6
90°-100°	296.3	3.5
100°-110°	1031.0	12.3
110°-120°	998.8	11.9
120°-130°	783.5	9.3
130°-140°	620.1	7.4
140°-150°	478.6	5.7
150°-160°	343.1	4.1
160°-170°	209.8	2.5
170°-180°	71.0	0.8
0°-30°	1072.1	12.8
0°-40°	1733.4	20.6
0°-60°	2962.7	35.3
0°-90°	3570.0	42.5
90°-120°	2326.1	27.7
90°-150°	4208.3	50.1
90°-180°	4832.0	57.5
0°-180°	8402.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1394	1394	1394	1394	1394	
5°	1399	1386	1390	1386	1386	133
15°	1345	1332	1338	1333	1330	380
25°	1239	1225	1230	1219	1218	570
35°	1070	1060	1063	1051	1050	669
45°	870	864	864	855	855	670
55°	645	643	637	633	632	573
65°	381	374	365	363	364	380
75°	174	174	171	170	168	188
85°	40	44	44	44	44	47
90°	11	17	17	11	6	8
95°	50	172	500	128	78	53
105°	172	244	1084	1828	1700	181
115°	300	361	806	1700	2006	296
125°	406	500	750	1267	1511	363
135°	489	550	745	1056	1195	379
145°	572	611	739	911	989	358
155°	650	672	728	811	839	300
165°	711	717	733	767	772	201
175°	745	745	739	750	745	71
180°	745	745	745	745	745	



TEST NUMBER: P845140

CATALOG NUMBER: SQ4P-PP3-150U-100D-B50-1D-UNV

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1394.1	1394.1	1394.1	1394.1	1394.1
2.5°	1402.8	1391.5	1394.1	1392.1	1386.4
5°	1399.0	1386.0	1390.4	1385.6	1385.6
7.5°	1389.6	1375.2	1379.7	1374.8	1374.6
10°	1380.7	1366.3	1371.0	1366.0	1364.9
12.5°	1368.1	1353.8	1359.2	1353.3	1353.1
15°	1345.3	1332.1	1338.0	1332.9	1330.5
17.5°	1319.6	1305.3	1312.3	1305.5	1304.5
20°	1300.0	1285.7	1292.7	1282.9	1282.9
22.5°	1276.7	1262.3	1270.3	1257.4	1257.4
25°	1239.0	1224.6	1230.5	1219.4	1218.3
27.5°	1194.2	1180.1	1186.2	1173.7	1173.4
30°	1162.0	1148.8	1155.9	1142.4	1141.2
32.5°	1126.8	1114.6	1119.7	1106.3	1104.9
35°	1070.4	1059.6	1063.0	1050.8	1049.5
37.5°	1011.0	1000.0	1003.8	993.2	992.9
40°	968.9	961.7	962.8	954.1	951.8
42.5°	929.8	921.7	922.7	914.0	913.7
45°	870.1	864.0	864.0	855.3	855.3
47.5°	806.5	801.8	800.6	793.3	793.1
50°	762.4	758.9	757.5	751.4	750.2
52.5°	716.5	714.8	710.6	705.5	705.4
55°	645.1	642.7	636.6	632.8	631.8
57.5°	567.8	562.9	556.0	550.7	551.5
60°	511.9	507.0	497.3	494.9	494.9
62.5°	458.2	452.5	442.6	439.3	441.2
65°	381.3	374.1	365.3	363.0	364.1
67.5°	311.4	304.8	295.3	295.3	294.6
70°	266.3	262.7	255.3	255.3	255.3
72.5°	226.3	224.6	219.3	219.1	218.2
75°	173.6	173.6	171.1	169.8	168.5
77.5°	130.0	130.4	129.4	128.0	125.8
80°	102.6	105.1	103.9	102.6	101.3
82.5°	77.3	79.6	79.4	77.3	76.9
85°	40.3	43.8	44.0	44.0	44.0
87.5°	10.8	14.6	15.6	15.6	16.7
90°	11.1	16.7	16.7	11.1	5.5
92.5°	27.8	83.3	77.8	33.3	27.8
95°	50.0	172.2	500.1	127.8	77.8
97.5°	77.8	194.5	1000.2	455.6	244.5
100°	105.6	205.5	1166.9	1094.6	705.6
102.5°	138.9	222.3	1161.3	1539.1	1266.9
105°	172.2	244.5	1083.5	1828.1	1700.3



TEST NUMBER: P845140

CATALOG NUMBER: SQ4P-PP3-150U-100D-B50-1D-UNV

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	266.7	327.9	844.5	1839.2	2094.7
115°	300.1	361.2	805.7	1700.3	2005.9
117.5°	333.4	400.0	783.4	1572.5	1878.1
120°	361.2	433.4	766.8	1450.2	1750.3
122.5°	383.4	466.8	755.7	1350.3	1622.4
125°	405.7	500.1	750.1	1266.9	1511.3
127.5°	427.8	522.3	750.1	1205.7	1411.4
130°	450.1	533.4	744.6	1144.6	1328.0
132.5°	472.3	538.9	744.6	1100.2	1255.7
135°	489.0	550.1	744.6	1055.7	1194.6
137.5°	511.2	561.2	744.6	1016.9	1144.6
140°	527.9	577.9	744.6	977.9	1089.0
142.5°	550.1	594.5	744.6	939.1	1039.0
145°	572.4	611.2	739.0	911.3	989.1
147.5°	594.5	627.9	733.4	883.5	944.6
150°	611.2	644.5	733.4	855.7	905.7
152.5°	633.5	661.2	727.9	827.9	872.3
155°	650.1	672.3	727.9	811.2	839.0
157.5°	666.8	689.0	727.9	794.6	816.8
160°	683.5	700.1	733.4	783.4	800.1
162.5°	700.1	711.3	733.4	772.4	783.4
165°	711.3	716.8	733.4	766.8	772.4
167.5°	722.3	727.9	733.4	761.2	761.2
170°	727.9	733.4	739.0	755.7	755.7
172.5°	739.0	739.0	739.0	750.1	750.1
175°	744.6	744.6	739.0	750.1	744.6
177.5°	744.6	744.6	739.0	750.1	744.6
180°	744.6	744.6	744.6	744.6	744.6



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	205.5	272.3	983.5	1955.8	1978.1
110°	233.3	300.1	905.7	1939.2	2100.4



(END OF REPORT)