

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: P845043

Luminaire Tested: **SQ4P-PC3-125U-100D-B40-1D-UNV**

Issue Date: 8/14/2023



Test Information

Test Method: LM-79-08
Report Number: P845043
REPORT IS A COMBINATION OF REPORTS P700113 AND P700247
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-PC3-125U-100D-B40-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 1250 LUMENS PER FOOT
UPLIGHT, 1000 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

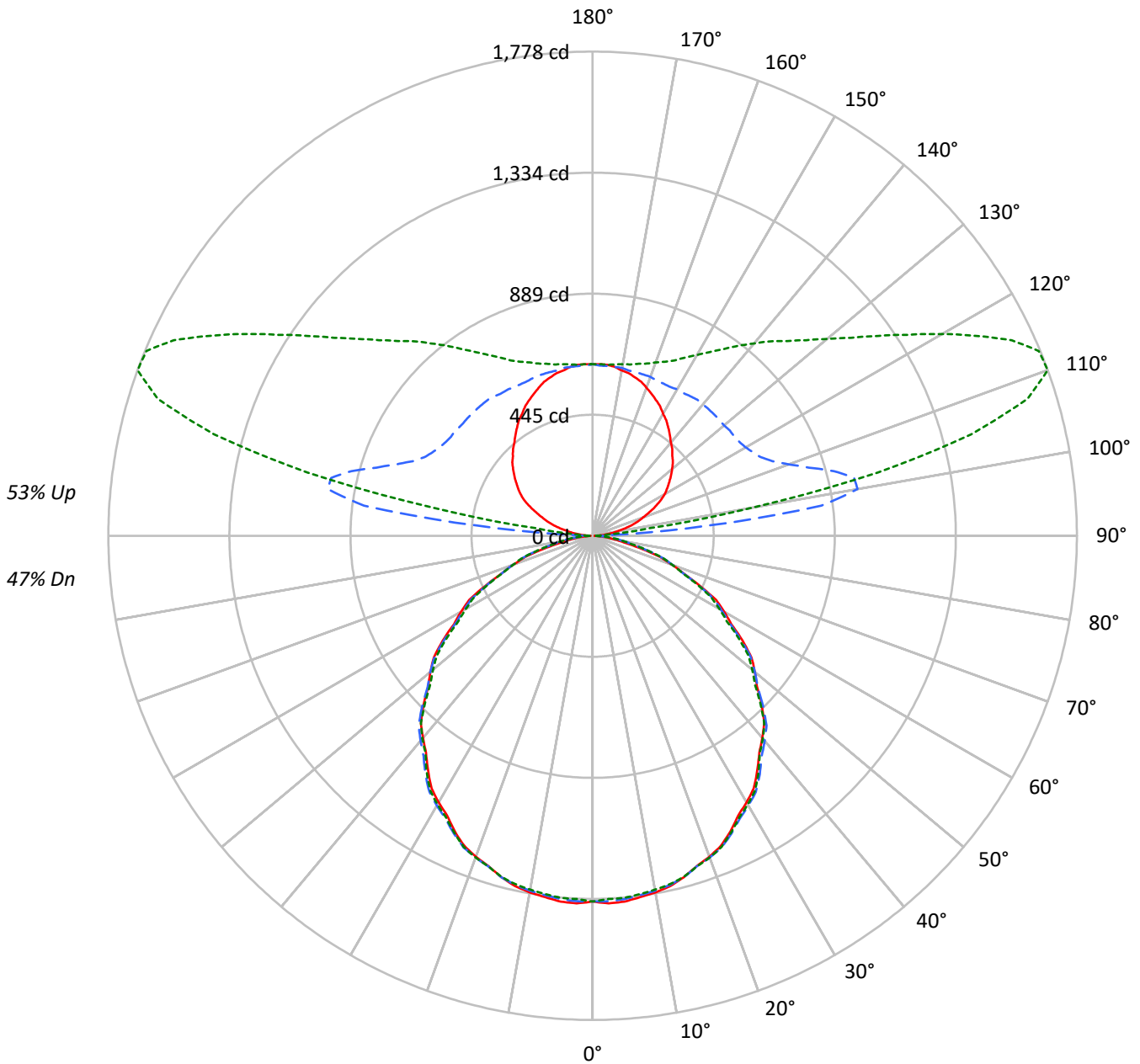
Lumens per Lamp: N/A
Luminaire Lumens: 7757.7 lumens
Efficiency: N/A
Efficacy: 112.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 68.9
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: P845043

CATALOG NUMBER: SQ4P-PC3-125U-100D-B40-1D-UNV

Luminous Intensity Polar Plot





TEST NUMBER: P845043

CATALOG NUMBER: SQ4P-PC3-125U-100D-B40-1D-UNV

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	106	106	106	106	98	98	98	98	82	82	82	67	67	67	54	54	54	47					47			
1	97	93	89	86	89	86	82	79	72	69	67	59	58	56	47	46	45					40				
2	89	81	75	70	81	75	70	65	63	59	56	52	49	47	42	40	38					33				
3	81	71	64	58	74	66	59	54	55	51	47	46	42	40	37	35	33					28				
4	74	63	55	49	68	58	51	46	49	44	40	41	37	34	33	30	28					24				
5	68	56	48	42	62	52	45	39	44	38	34	37	32	29	30	27	24					21				
6	62	50	42	36	57	47	39	34	40	34	30	33	29	26	27	24	21					18				
7	58	45	37	32	53	42	35	30	36	30	26	30	26	23	25	21	19					16				
8	53	41	33	28	49	38	31	26	33	27	23	27	23	20	23	19	17					15				
9	50	37	30	25	46	35	28	24	30	25	21	25	21	18	21	18	15					13				
10	46	34	27	22	43	32	25	21	27	22	19	23	19	16	19	16	14					12				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12392	12392	12392
5°	12487	12406	12360
10°	12457	12398	12363
15°	12391	12391	12378
20°	12310	12346	12346
25°	12194	12281	12243
30°	12044	12190	12136
35°	11866	12047	11963
40°	11668	11833	11714
45°	11459	11539	11359
50°	11158	11158	10980
55°	10805	10663	10505
60°	10282	10077	9913
65°	9501	9315	9230
70°	8322	8387	8357
75°	6695	7408	7450
80°	4761	6275	6344
85°	2901	5261	5261



TEST NUMBER: P845043

CATALOG NUMBER: SQ4P-PC3-125U-100D-B40-1D-UNV

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.1	1.6
10°-20°	364.8	4.7
20°-30°	552.5	7.1
30°-40°	662.3	8.5
40°-50°	675.3	8.7
50°-60°	589.5	7.6
60°-70°	422.0	5.4
70°-80°	217.4	2.8
80°-90°	56.5	0.7
90°-100°	250.8	3.2
100°-110°	872.7	11.2
110°-120°	845.4	10.9
120°-130°	663.2	8.5
130°-140°	524.9	6.8
140°-150°	405.1	5.2
150°-160°	290.4	3.7
160°-170°	177.6	2.3
170°-180°	60.1	0.8
0°-30°	1044.4	13.5
0°-40°	1706.7	22.0
0°-60°	2971.6	38.3
0°-90°	3667.5	47.3
90°-120°	1969.0	25.4
90°-150°	3562.1	45.9
90°-180°	4090.0	52.7
0°-180°	7757.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1343	1343	1343	1343	1343	
5°	1348	1335	1340	1336	1335	128
15°	1297	1286	1297	1297	1296	366
25°	1198	1189	1206	1203	1203	551
35°	1054	1051	1070	1062	1062	659
45°	878	876	884	873	871	676
55°	672	663	663	653	653	599
65°	435	426	427	423	423	430
75°	188	196	208	209	209	203
85°	27	42	50	51	50	37
90°	9	14	14	9	5	7
95°	42	146	423	108	66	45
105°	146	207	917	1547	1439	153
115°	254	306	682	1439	1698	251
125°	343	423	635	1072	1279	307
135°	414	466	630	894	1011	321
145°	484	517	626	771	837	303
155°	550	569	616	687	710	254
165°	602	607	621	649	654	170
175°	630	630	626	635	630	60
180°	630	630	630	630	630	



TEST NUMBER: P845043

CATALOG NUMBER: SQ4P-PC3-125U-100D-B40-1D-UNV

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1343.1	1343.1	1343.1	1343.1	1343.1
2.5°	1351.3	1339.5	1343.1	1340.1	1335.2
5°	1348.3	1334.8	1339.5	1335.7	1334.6
7.5°	1338.5	1325.1	1331.4	1328.8	1327.5
10°	1329.7	1316.1	1323.4	1320.8	1319.6
12.5°	1317.6	1305.2	1313.4	1310.9	1310.6
15°	1297.3	1286.3	1297.3	1297.3	1295.9
17.5°	1271.5	1261.7	1273.3	1274.1	1273.3
20°	1253.8	1242.8	1257.4	1256.1	1257.4
22.5°	1231.9	1222.9	1238.6	1235.3	1236.6
25°	1197.8	1189.2	1206.4	1202.7	1202.7
27.5°	1157.4	1151.2	1170.1	1166.1	1166.1
30°	1130.5	1124.5	1144.2	1139.2	1139.2
32.5°	1100.7	1096.6	1115.5	1109.5	1109.5
35°	1053.5	1050.9	1069.6	1062.1	1062.1
37.5°	1004.6	1002.5	1019.5	1010.4	1007.4
40°	968.8	967.7	982.5	972.6	972.6
42.5°	933.0	931.8	944.8	932.8	932.8
45°	878.2	875.5	884.4	873.0	870.6
47.5°	818.1	815.8	821.1	808.9	807.6
50°	777.4	774.8	777.4	766.0	765.0
52.5°	735.5	731.1	731.4	720.3	720.1
55°	671.7	663.1	662.9	653.1	653.1
57.5°	603.9	592.8	593.8	585.3	584.0
60°	557.2	545.0	546.1	538.5	537.2
62.5°	511.3	497.4	500.1	491.8	491.6
65°	435.2	425.5	426.7	422.8	422.8
67.5°	362.1	353.1	359.7	356.7	356.5
70°	308.5	302.3	310.9	310.9	309.8
72.5°	258.7	258.5	269.0	269.0	269.9
75°	187.8	196.3	207.8	209.0	209.0
77.5°	125.4	140.4	153.1	153.5	153.3
80°	89.6	106.6	118.1	120.7	119.4
82.5°	60.7	78.7	88.3	90.7	89.6
85°	27.4	42.1	49.7	51.1	49.7
87.5°	7.9	16.8	20.0	20.0	18.0
90°	9.4	14.1	14.1	9.4	4.7
92.5°	23.5	70.5	65.8	28.2	23.5
95°	42.3	145.8	423.3	108.1	65.8
97.5°	65.8	164.6	846.6	385.7	207.0
100°	89.3	174.0	987.7	926.5	597.3
102.5°	117.5	188.1	983.0	1302.8	1072.4
105°	145.8	207.0	917.1	1547.4	1439.3



TEST NUMBER: P845043

CATALOG NUMBER: SQ4P-PC3-125U-100D-B40-1D-UNV

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	225.8	277.5	714.9	1556.8	1773.2
115°	254.0	305.7	682.0	1439.3	1697.9
117.5°	282.2	338.7	663.1	1331.1	1589.7
120°	305.7	366.9	649.1	1227.6	1481.6
122.5°	324.5	395.1	639.7	1142.9	1373.4
125°	343.3	423.3	634.9	1072.4	1279.4
127.5°	362.1	442.1	634.9	1020.6	1194.7
130°	380.9	451.5	630.3	968.9	1124.1
132.5°	399.8	456.2	630.3	931.3	1063.0
135°	413.9	465.6	630.3	893.7	1011.2
137.5°	432.7	475.0	630.3	860.7	968.9
140°	446.8	489.2	630.3	827.8	921.9
142.5°	465.6	503.2	630.3	794.8	879.5
145°	484.4	517.4	625.5	771.4	837.2
147.5°	503.2	531.4	620.9	747.8	799.6
150°	517.4	545.6	620.9	724.3	766.6
152.5°	536.2	559.7	616.1	700.8	738.4
155°	550.3	569.1	616.1	686.7	710.2
157.5°	564.4	583.2	616.1	672.6	691.4
160°	578.5	592.6	620.9	663.1	677.3
162.5°	592.6	602.1	620.9	653.7	663.1
165°	602.1	606.7	620.9	649.1	653.7
167.5°	611.5	616.1	620.9	644.3	644.3
170°	616.1	620.9	625.5	639.7	639.7
172.5°	625.5	625.5	625.5	634.9	634.9
175°	630.3	630.3	625.5	634.9	630.3
177.5°	630.3	630.3	625.5	634.9	630.3
180°	630.3	630.3	630.3	630.3	630.3



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	174.0	230.4	832.5	1655.5	1674.4
110°	197.5	254.0	766.6	1641.5	1777.8



(END OF REPORT)