

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: P845045

Luminaire Tested: **SQ4P-PC3-125U-125D-B35-1D-UNV**

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-08
Report Number: P845045
REPORT IS A COMBINATION OF REPORTS P700114 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-125D-B35-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 1250 LUMENS PER FOOT
UPLIGHT, 1250 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

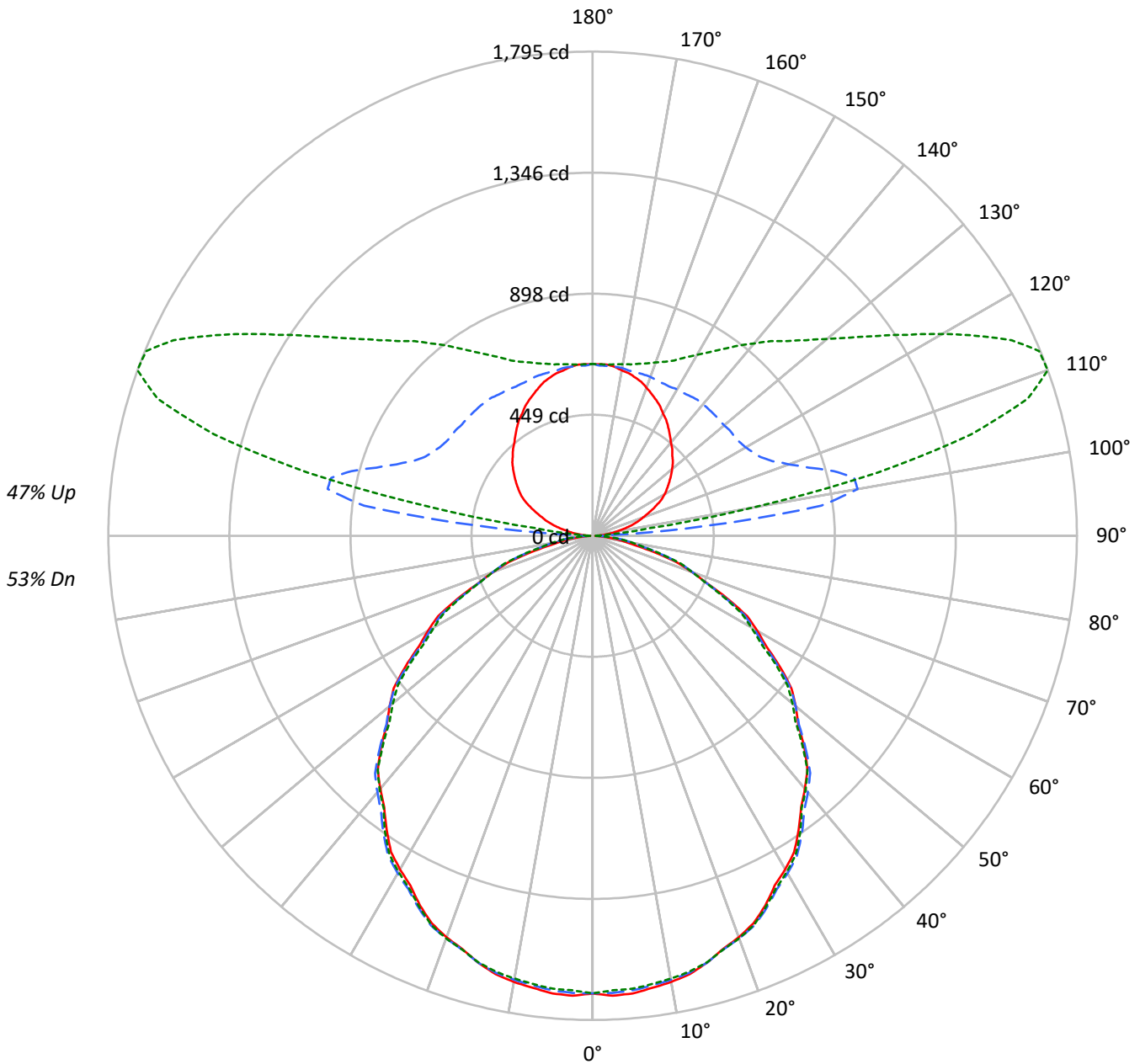
Lumens per Lamp: N/A
Luminaire Lumens: 8762.5 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 79.8
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									
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	108	108	108	108	100	100	100	100	85	85	85	71	71	71	59	59	59	53																			
1	99	94	90	87	91	87	84	81	75	72	70	63	61	60	52	51	50	45																			
2	90	82	76	71	83	76	71	66	65	61	58	55	52	50	46	44	42	37																			
3	82	72	65	59	75	67	61	56	58	53	49	49	45	42	41	38	36	32																			
4	75	64	56	50	69	60	52	47	51	46	41	43	39	36	36	33	31	27																			
5	69	57	49	43	63	53	46	40	46	40	36	39	35	31	33	29	27	23																			
6	63	51	43	37	58	48	40	35	41	35	31	35	31	27	30	26	23	21																			
7	58	46	38	32	54	43	36	31	37	32	27	32	27	24	27	23	21	18																			
8	54	42	34	29	50	39	32	27	34	28	24	29	25	21	25	21	19	16																			
9	50	38	31	26	47	36	29	24	31	26	22	27	22	19	23	19	17	15																			
10	47	35	28	23	44	33	26	22	29	23	20	25	20	17	21	18	15	13																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15652	15652	15652
5°	15773	15669	15612
10°	15734	15661	15615
15°	15651	15651	15635
20°	15548	15593	15593
25°	15402	15512	15465
30°	15212	15396	15330
35°	14989	15216	15109
40°	14738	14948	14797
45°	14473	14574	14349
50°	14094	14094	13868
55°	13647	13470	13267
60°	12987	12727	12522
65°	12003	11765	11658
70°	10512	10593	10556
75°	8456	9357	9411
80°	6014	7927	8012
85°	3663	6648	6648



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.6	1.8
10°-20°	460.8	5.3
20°-30°	697.8	8.0
30°-40°	836.6	9.5
40°-50°	853.0	9.7
50°-60°	744.6	8.5
60°-70°	533.1	6.1
70°-80°	274.6	3.1
80°-90°	71.0	0.8
90°-100°	253.3	2.9
100°-110°	881.3	10.1
110°-120°	853.7	9.7
120°-130°	669.7	7.6
130°-140°	530.1	6.0
140°-150°	409.1	4.7
150°-160°	293.2	3.3
160°-170°	179.4	2.0
170°-180°	60.7	0.7
0°-30°	1319.2	15.1
0°-40°	2155.8	24.6
0°-60°	3753.4	42.8
0°-90°	4632.1	52.9
90°-120°	1988.3	22.7
90°-150°	3597.1	41.1
90°-180°	4130.0	47.1
0°-180°	8762.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1696	1696	1696	1696	1696	
5°	1703	1686	1692	1687	1686	162
15°	1639	1625	1639	1639	1637	462
25°	1513	1502	1524	1519	1519	696
35°	1331	1327	1351	1342	1342	832
45°	1109	1106	1117	1103	1100	854
55°	848	838	837	825	825	756
65°	550	538	539	534	534	544
75°	237	248	262	264	264	256
85°	35	53	63	64	63	47
90°	10	14	14	10	5	7
95°	43	147	427	109	66	45
105°	147	209	926	1563	1453	155
115°	256	309	689	1453	1714	253
125°	347	427	641	1083	1292	310
135°	418	470	636	902	1021	324
145°	489	522	632	779	845	306
155°	556	575	622	693	717	256
165°	608	613	627	655	660	171
175°	636	636	632	641	636	60
180°	636	636	636	636	636	



TEST NUMBER: P845045

CATALOG NUMBER: SQ4P-PC3-125U-125D-B35-1D-UNV

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1696.5	1696.5	1696.5	1696.5	1696.5
2.5°	1706.8	1691.9	1696.5	1692.7	1686.6
5°	1703.1	1686.0	1691.9	1687.0	1685.7
7.5°	1690.6	1673.8	1681.7	1678.4	1676.8
10°	1679.5	1662.4	1671.7	1668.4	1666.8
12.5°	1664.3	1648.6	1659.0	1655.9	1655.4
15°	1638.6	1624.8	1638.6	1638.6	1636.9
17.5°	1606.1	1593.7	1608.3	1609.3	1608.3
20°	1583.6	1569.8	1588.2	1586.6	1588.2
22.5°	1556.0	1544.7	1564.4	1560.3	1562.0
25°	1513.0	1502.1	1523.8	1519.2	1519.2
27.5°	1462.1	1454.1	1478.0	1472.8	1472.8
30°	1427.9	1420.4	1445.2	1439.0	1439.0
32.5°	1390.2	1385.2	1408.9	1401.4	1401.4
35°	1330.8	1327.4	1351.0	1341.5	1341.5
37.5°	1269.0	1266.3	1287.7	1276.2	1272.5
40°	1223.7	1222.4	1241.1	1228.6	1228.6
42.5°	1178.5	1176.9	1193.5	1178.3	1178.3
45°	1109.2	1106.0	1117.0	1102.6	1099.7
47.5°	1033.4	1030.4	1037.2	1021.7	1020.1
50°	981.9	978.7	981.9	967.6	966.2
52.5°	929.1	923.5	924.0	909.9	909.6
55°	848.4	837.6	837.4	824.8	824.8
57.5°	762.8	748.8	750.1	739.3	737.6
60°	703.8	688.3	689.7	680.2	678.6
62.5°	645.9	628.2	631.8	621.2	620.9
65°	549.8	537.5	538.9	534.0	534.0
67.5°	457.4	446.0	454.4	450.6	450.3
70°	389.7	381.8	392.7	392.7	391.3
72.5°	326.8	326.5	339.9	339.9	340.9
75°	237.2	248.1	262.5	264.0	264.0
77.5°	158.4	177.4	193.4	193.9	193.7
80°	113.2	134.6	149.2	152.5	150.8
82.5°	76.6	99.4	111.6	114.6	113.2
85°	34.6	53.0	62.8	64.5	62.8
87.5°	10.0	21.1	25.1	25.1	22.7
90°	9.5	14.3	14.3	9.5	4.8
92.5°	23.8	71.2	66.4	28.5	23.8
95°	42.8	147.3	427.4	109.2	66.4
97.5°	66.4	166.3	854.9	389.5	209.0
100°	90.2	175.8	997.4	935.6	603.2
102.5°	118.7	189.9	992.7	1315.6	1082.9
105°	147.3	209.0	926.1	1562.6	1453.4



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CATALOG NUMBER: SQ4P-PC3-125U-125D-B35-1D-UNV

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	228.0	280.3	721.9	1572.1	1790.6
115°	256.5	308.7	688.7	1453.4	1714.5
117.5°	285.0	342.0	669.6	1344.2	1605.3
120°	308.7	370.5	655.4	1239.6	1496.1
122.5°	327.7	399.0	646.0	1154.1	1386.8
125°	346.7	427.4	641.2	1082.9	1291.9
127.5°	365.7	446.4	641.2	1030.6	1206.4
130°	384.7	455.9	636.5	978.4	1135.1
132.5°	403.8	460.7	636.5	940.4	1073.4
135°	417.9	470.2	636.5	902.4	1021.1
137.5°	436.9	479.7	636.5	869.2	978.4
140°	451.2	494.0	636.5	835.9	930.9
142.5°	470.2	508.2	636.5	802.6	888.1
145°	489.2	522.5	631.7	778.9	845.4
147.5°	508.2	536.6	627.0	755.2	807.4
150°	522.5	550.9	627.0	731.4	774.1
152.5°	541.4	565.2	622.2	707.7	745.7
155°	555.7	574.7	622.2	693.4	717.2
157.5°	569.9	588.9	622.2	679.2	698.2
160°	584.2	598.4	627.0	669.6	683.9
162.5°	598.4	608.0	627.0	660.1	669.6
165°	608.0	612.7	627.0	655.4	660.1
167.5°	617.5	622.2	627.0	650.6	650.6
170°	622.2	627.0	631.7	646.0	646.0
172.5°	631.7	631.7	631.7	641.2	641.2
175°	636.5	636.5	631.7	641.2	636.5
177.5°	636.5	636.5	631.7	641.2	636.5
180°	636.5	636.5	636.5	636.5	636.5



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	175.8	232.7	840.7	1671.8	1690.9
110°	199.4	256.5	774.1	1657.6	1795.3



(END OF REPORT)