

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: P845033

Luminaire Tested: **SQ4P-PC3-100U-125D-B35-1D-UNV**

Issue Date: 8/14/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P845033  
REPORT IS A COMBINATION OF REPORTS P700086 AND P700246  
Test Lab: INNOVATION CENTER  
Issue Date: 8/14/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4P-PC3-100U-125D-B35-1D-UNV  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 1000 LUMENS PER FOOT UPLIGHT, 1250 LUMENS PER FOOT DOWNLIGHT  
  
Light Source: -  
Ballast/Driver: -

**Summary**

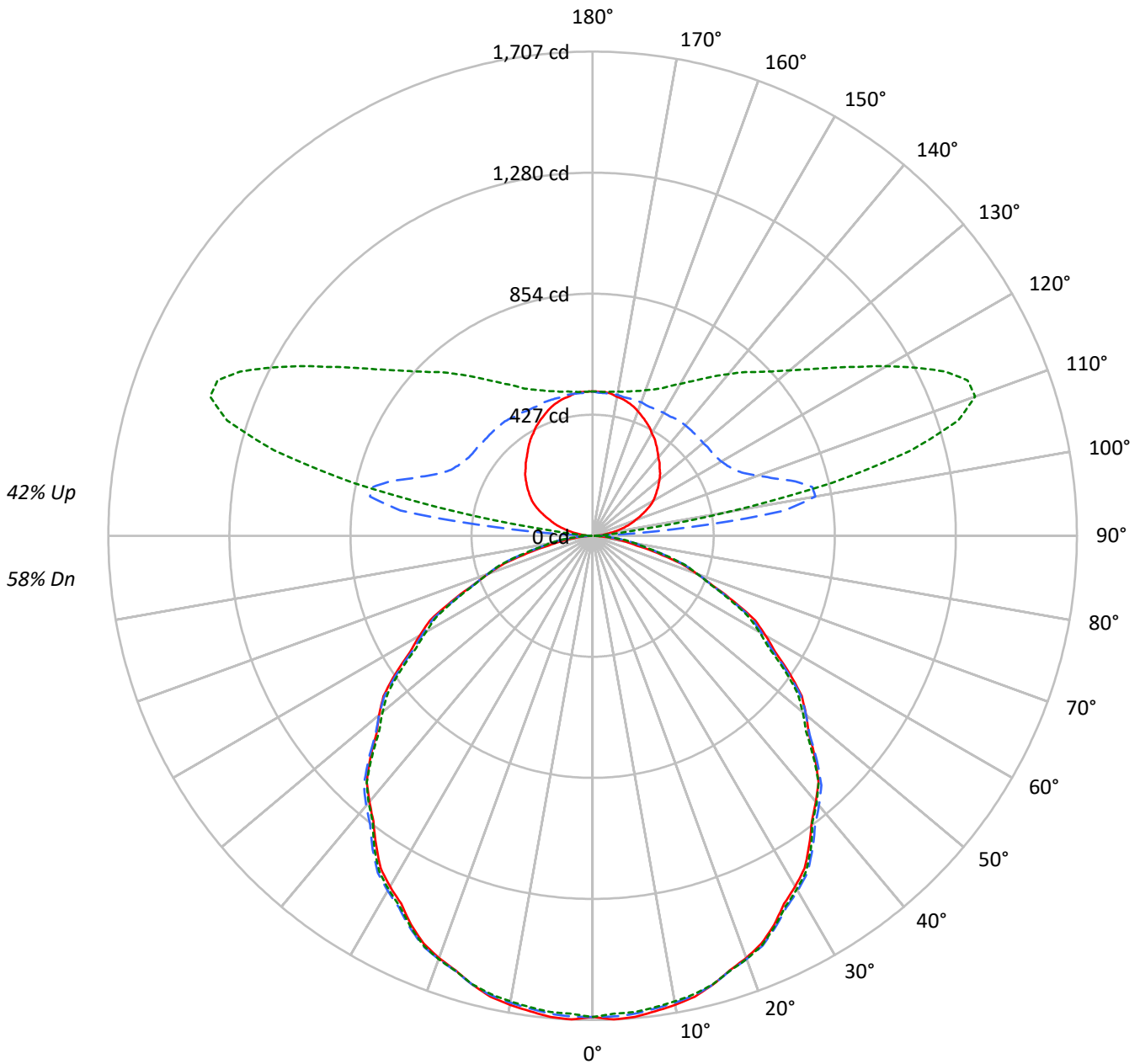
Lumens per Lamp: N/A  
Luminaire Lumens: 7932.6 lumens  
Efficiency: N/A  
Efficacy: 110.5 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 71.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	109	109	109	109	102	102	102	102	88	88	88	75	75	75	64	64	64	58																			
1	100	95	91	88	93	89	86	83	77	75	73	67	65	63	57	55	54	49																			
2	91	83	77	72	84	78	72	68	68	64	60	58	55	53	50	48	46	41																			
3	83	73	66	60	77	69	62	57	60	55	50	52	48	45	44	41	39	35																			
4	76	65	57	51	70	61	54	48	53	47	43	46	42	38	39	36	33	30																			
5	70	58	49	43	65	54	47	41	47	42	37	41	37	33	35	32	29	26																			
6	64	52	44	38	60	49	41	36	43	37	32	37	33	29	32	28	25	23																			
7	59	47	39	33	55	44	37	31	39	33	28	34	29	26	29	26	23	20																			
8	55	42	35	29	51	40	33	28	35	29	25	31	26	23	27	23	20	18																			
9	51	39	31	26	48	37	30	25	32	27	23	28	24	20	25	21	18	16																			
10	48	36	28	23	45	34	27	22	30	24	20	26	22	18	23	19	17	15																			

**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	2.0
10°-20°	460.8	5.8
20°-30°	697.8	8.8
30°-40°	836.6	10.5
40°-50°	853.0	10.8
50°-60°	744.6	9.4
60°-70°	533.1	6.7
70°-80°	274.6	3.5
80°-90°	70.7	0.9
90°-100°	202.4	2.6
100°-110°	704.3	8.9
110°-120°	682.2	8.6
120°-130°	535.2	6.7
130°-140°	423.6	5.3
140°-150°	326.9	4.1
150°-160°	234.3	3.0
160°-170°	143.3	1.8
170°-180°	48.5	0.6
0°-30°	1319.2	16.6
0°-40°	2155.8	27.2
0°-60°	3753.4	47.3
0°-90°	4631.8	58.4
90°-120°	1588.9	20.0
90°-150°	2874.6	36.2
90°-180°	3301.0	41.6
0°-180°	7932.6	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°	8	11	11	8	4	6
95°	34	118	342	87	53	36
105°	118	167	740	1249	1162	124
115°	205	247	550	1162	1370	202
125°	277	342	512	865	1032	248
135°	334	376	509	721	816	259
145°	391	418	505	622	676	245
155°	444	459	497	554	573	205
165°	486	490	501	524	528	137
175°	509	509	505	512	509	48
180°	509	509	509	509	509	



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**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°	7.6	11.4	11.4	7.6	3.8
92.5°	19.0	57.0	53.1	22.8	19.0
95°	34.2	117.6	341.6	87.3	53.1
97.5°	53.1	132.9	683.2	311.3	167.0
100°	72.1	140.4	797.0	747.7	482.0
102.5°	94.9	151.8	793.2	1051.4	865.3
105°	117.6	167.0	740.1	1248.7	1161.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	182.2	223.9	577.0	1256.3	1431.0
115°	204.9	246.7	550.3	1161.5	1370.2
117.5°	227.7	273.3	535.2	1074.2	1282.9
120°	246.7	296.0	523.8	990.6	1195.6
122.5°	261.9	318.8	516.2	922.3	1108.3
125°	277.0	341.6	512.4	865.3	1032.4
127.5°	292.3	356.8	512.4	823.7	964.1
130°	307.5	364.4	508.6	781.9	907.1
132.5°	322.6	368.1	508.6	751.5	857.8
135°	334.0	375.8	508.6	721.2	816.0
137.5°	349.2	383.3	508.6	694.6	781.9
140°	360.6	394.8	508.6	668.0	743.9
142.5°	375.8	406.1	508.6	641.5	709.8
145°	390.9	417.6	504.8	622.5	675.6
147.5°	406.1	428.9	501.0	603.5	645.3
150°	417.6	440.3	501.0	584.5	618.6
152.5°	432.7	451.7	497.2	565.5	595.9
155°	444.1	459.2	497.2	554.2	573.1
157.5°	455.4	470.7	497.2	542.8	558.0
160°	466.9	478.2	501.0	535.2	546.5
162.5°	478.2	485.9	501.0	527.5	535.2
165°	485.9	489.7	501.0	523.8	527.5
167.5°	493.4	497.2	501.0	520.0	520.0
170°	497.2	501.0	504.8	516.2	516.2
172.5°	504.8	504.8	504.8	512.4	512.4
175°	508.6	508.6	504.8	512.4	508.6
177.5°	508.6	508.6	504.8	512.4	508.6
180°	508.6	508.6	508.6	508.6	508.6



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	140.4	186.0	671.8	1336.0	1351.2
110°	159.4	204.9	618.6	1324.7	1434.7



(END OF REPORT)