

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: P845294

Luminaire Tested: **SQ4P-PW1-125U-100D-B35-1D-UNV**

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-08
Report Number: P845294
REPORT IS A COMBINATION OF REPORTS P700125 AND P700247
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-PW1-125U-100D-B35-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 1250 LUMENS PER FOOT
UPLIGHT, 1000 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

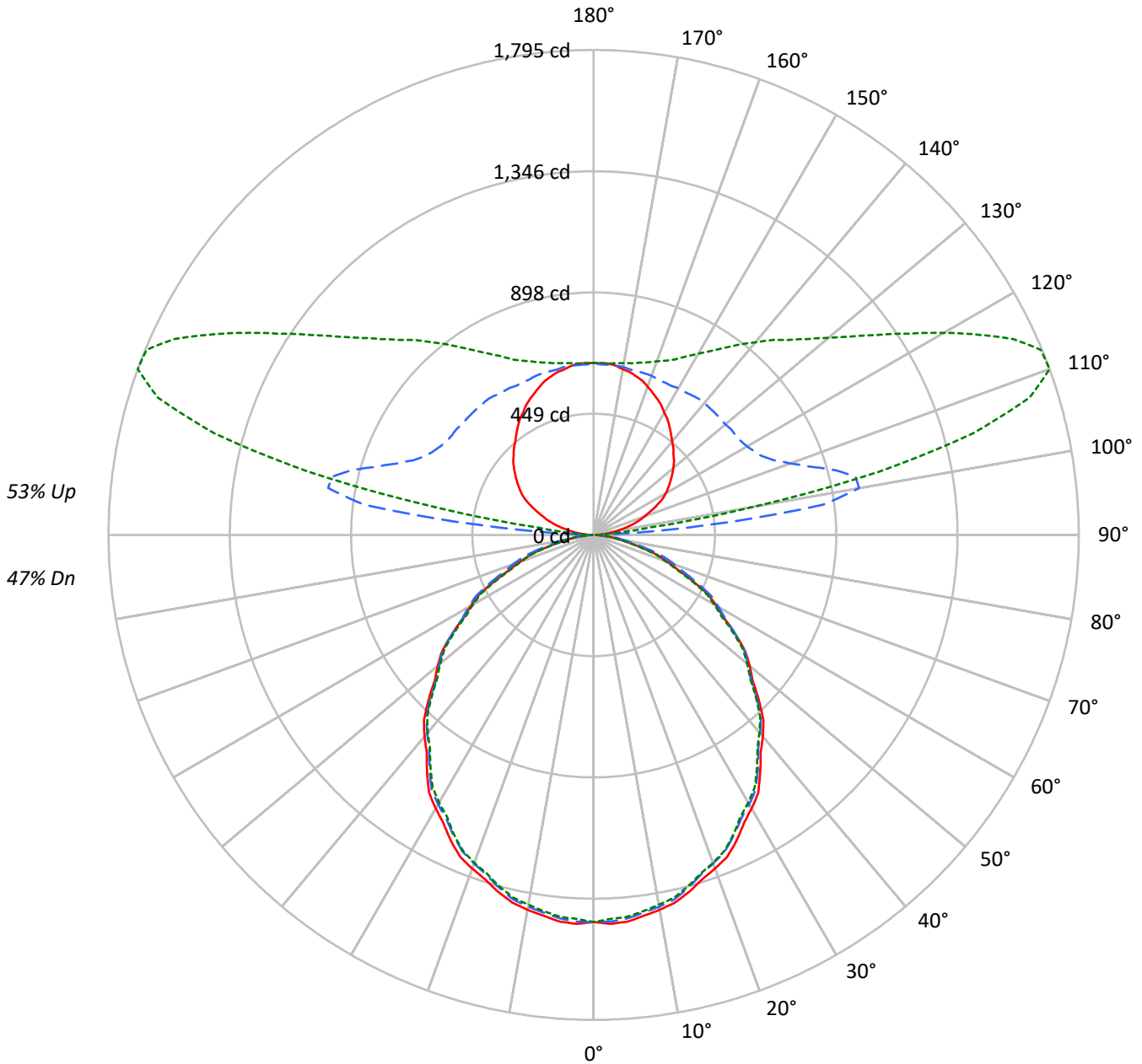
Lumens per Lamp: N/A
Luminaire Lumens: 7777.1 lumens
Efficiency: N/A
Efficacy: 112.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

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

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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	106	106	106	106	98	98	98	98	82	82	82	67	67	67	53	53	53	47																			
1	97	93	89	86	89	86	82	79	72	69	67	59	57	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	60	55	56	51	47	46	42	40	37	35	33	28																			
4	74	63	55	49	68	58	52	46	49	44	40	41	37	34	33	30	28	24																			
5	68	56	48	42	62	52	45	40	44	39	34	37	33	29	30	27	24	21																			
6	62	50	42	37	57	47	40	34	40	34	30	33	29	26	27	24	22	19																			
7	58	46	38	32	53	42	35	30	36	30	26	30	26	23	25	22	19	16																			
8	54	41	34	28	49	38	32	27	33	27	24	28	23	20	23	20	17	15																			
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	15	13																			
10	47	35	27	23	43	32	26	21	28	23	19	23	19	16	19	16	14	12																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13217	13217	13217
5°	13304	13199	13141
10°	13197	13092	13020
15°	13058	12913	12865
20°	12901	12703	12679
25°	12721	12491	12451
30°	12453	12265	12184
35°	12100	11928	11856
40°	11722	11538	11494
45°	11265	11117	11066
50°	10800	10711	10634
55°	10293	10293	10132
60°	9667	9854	9503
65°	8844	9287	8625
70°	7796	8546	7594
75°	6662	7646	6477
80°	5170	6440	5233
85°	3335	4954	4404



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.9	1.7
10°-20°	380.9	4.9
20°-30°	565.0	7.3
30°-40°	661.1	8.5
40°-50°	658.1	8.5
50°-60°	568.3	7.3
60°-70°	409.1	5.3
70°-80°	214.5	2.8
80°-90°	54.7	0.7
90°-100°	253.3	3.3
100°-110°	881.3	11.3
110°-120°	853.7	11.0
120°-130°	669.7	8.6
130°-140°	530.1	6.8
140°-150°	409.1	5.3
150°-160°	293.2	3.8
160°-170°	179.4	2.3
170°-180°	60.7	0.8
0°-30°	1080.8	13.9
0°-40°	1741.9	22.4
0°-60°	2968.3	38.2
0°-90°	3646.7	46.9
90°-120°	1988.3	25.6
90°-150°	3597.1	46.3
90°-180°	4130.0	53.1
0°-180°	7777.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1433	1433	1433	1433	1433	
5°	1436	1420	1425	1421	1419	136
15°	1367	1350	1352	1349	1347	385
25°	1250	1229	1227	1219	1223	575
35°	1074	1059	1059	1049	1053	672
45°	863	856	852	850	848	666
55°	640	639	640	631	630	571
65°	405	418	425	409	395	402
75°	187	204	214	200	182	200
85°	32	41	47	44	42	42
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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1432.6	1432.6	1432.6	1432.6	1432.6
2.5°	1440.8	1428.9	1432.6	1429.6	1422.5
5°	1436.5	1420.4	1425.2	1421.3	1418.9
7.5°	1422.0	1407.2	1410.4	1406.5	1404.9
10°	1408.6	1393.9	1397.4	1392.3	1389.8
12.5°	1393.7	1377.7	1381.2	1376.1	1374.7
15°	1367.1	1349.7	1351.9	1349.2	1346.9
17.5°	1336.2	1318.8	1319.0	1315.1	1314.4
20°	1314.0	1295.5	1293.8	1288.8	1291.4
22.5°	1289.8	1270.3	1268.5	1261.6	1265.1
25°	1249.6	1228.7	1227.0	1219.4	1223.1
27.5°	1203.2	1182.6	1182.6	1171.9	1175.8
30°	1168.9	1149.1	1151.3	1138.7	1143.7
32.5°	1132.6	1114.7	1115.8	1103.4	1108.4
35°	1074.3	1059.4	1059.0	1049.0	1052.6
37.5°	1014.6	1001.6	999.4	993.7	994.6
40°	973.3	962.1	958.0	954.3	954.3
42.5°	929.7	919.8	915.6	912.8	911.9
45°	863.4	856.0	852.0	849.5	848.1
47.5°	797.6	791.0	787.5	785.7	784.4
50°	752.4	747.4	746.2	742.1	740.9
52.5°	706.9	703.9	702.6	697.8	696.5
55°	639.9	638.8	639.9	631.2	629.9
57.5°	570.3	572.3	576.4	564.4	561.4
60°	523.9	528.7	534.0	520.0	515.0
62.5°	476.3	484.4	491.5	475.4	468.4
65°	405.1	417.6	425.4	408.6	395.1
67.5°	336.6	351.8	361.2	343.4	327.9
70°	289.0	306.4	316.8	298.8	281.5
72.5°	247.6	267.0	275.5	258.2	241.1
75°	186.9	204.1	214.5	200.2	181.7
77.5°	132.5	148.8	157.5	145.1	129.7
80°	97.3	114.5	121.2	110.8	98.5
82.5°	69.0	83.4	87.9	81.6	73.1
85°	31.5	41.3	46.8	44.1	41.6
87.5°	8.0	15.0	19.2	19.2	20.3
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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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)