

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: P845309

Luminaire Tested: **SQ4P-PW1-150U-125D-B35-1D-UNV**

Issue Date: 8/14/2023



Test Information

Test Method: LM-79-08
Report Number: P845309
REPORT IS A COMBINATION OF REPORTS P700154 AND P700248
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-PW1-150U-125D-B35-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 1500 LUMENS PER FOOT
UPLIGHT, 1250 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

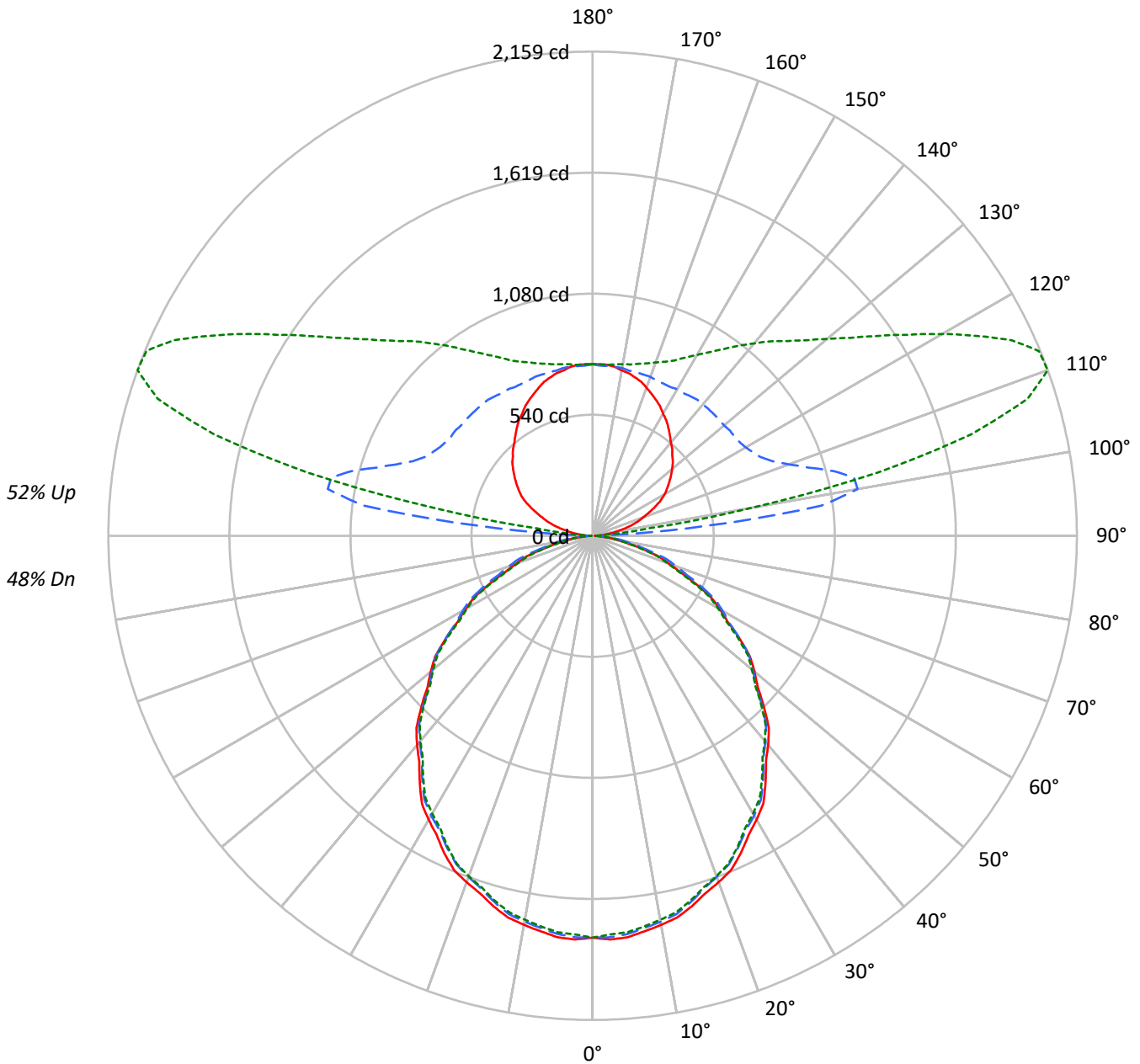
Lumens per Lamp: N/A
Luminaire Lumens: 9527.9 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 88.8
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	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54	48				48															
1	97	93	89	86	89	86	83	80	72	70	68	60	58	56	48	47	46				41																
2	89	81	75	70	81	75	70	65	63	59	56	52	50	47	42	40	39				34																
3	81	72	64	59	74	66	60	55	56	51	47	46	43	40	38	35	33				29																
4	74	63	56	50	68	59	52	46	50	44	40	41	37	34	34	31	29				25																
5	68	56	48	42	62	52	45	40	44	39	35	37	33	30	30	27	25				22																
6	63	51	43	37	57	47	40	35	40	34	30	34	29	26	27	24	22				19																
7	58	46	38	32	53	42	35	30	36	31	27	31	26	23	25	22	19				17																
8	54	41	34	28	49	39	32	27	33	28	24	28	24	21	23	20	17				15																
9	50	38	30	25	46	35	29	24	30	25	21	26	21	18	21	18	16				14																
10	47	35	28	23	43	32	26	22	28	23	19	24	20	17	20	17	14				12																

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16532	16532	16532
5°	16640	16509	16435
10°	16506	16373	16284
15°	16331	16151	16091
20°	16136	15888	15859
25°	15911	15622	15572
30°	15575	15341	15239
35°	15133	14918	14830
40°	14661	14432	14377
45°	14089	13906	13842
50°	13508	13395	13301
55°	12875	12875	12672
60°	12092	12324	11887
65°	11062	11614	10789
70°	9749	10688	9501
75°	8334	9564	8099
80°	6461	8055	6551
85°	4171	6193	5505



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.7	1.8
10°-20°	476.4	5.0
20°-30°	706.6	7.4
30°-40°	826.8	8.7
40°-50°	823.2	8.6
50°-60°	710.8	7.5
60°-70°	511.7	5.4
70°-80°	268.3	2.8
80°-90°	68.4	0.7
90°-100°	304.6	3.2
100°-110°	1059.8	11.1
110°-120°	1026.6	10.8
120°-130°	805.3	8.5
130°-140°	637.4	6.7
140°-150°	491.9	5.2
150°-160°	352.6	3.7
160°-170°	215.7	2.3
170°-180°	73.0	0.8
0°-30°	1351.8	14.2
0°-40°	2178.6	22.9
0°-60°	3712.6	39.0
0°-90°	4561.0	47.9
90°-120°	2391.0	25.1
90°-150°	4325.6	45.4
90°-180°	4967.0	52.1
0°-180°	9527.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1792	1792	1792	1792	1792	
5°	1797	1777	1783	1778	1775	170
15°	1710	1688	1691	1688	1685	482
25°	1563	1537	1535	1525	1530	719
35°	1344	1325	1324	1312	1317	840
45°	1080	1071	1066	1062	1061	833
55°	800	799	800	790	788	714
65°	507	522	532	511	494	502
75°	234	255	268	250	227	250
85°	39	52	58	55	52	52
90°	11	17	17	11	6	8
95°	51	177	514	131	80	54
105°	177	251	1114	1879	1748	186
115°	308	371	828	1748	2062	305
125°	417	514	771	1302	1554	373
135°	503	565	765	1085	1228	390
145°	588	628	760	937	1017	368
155°	668	691	748	834	862	308
165°	731	737	754	788	794	206
175°	765	765	760	771	765	72
180°	765	765	765	765	765	



TEST NUMBER: P845309

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1791.9	1791.9	1791.9	1791.9	1791.9
2.5°	1802.1	1787.2	1791.9	1788.0	1779.3
5°	1796.7	1776.6	1782.6	1777.7	1774.6
7.5°	1778.4	1760.0	1764.1	1759.2	1757.2
10°	1761.9	1743.3	1747.7	1741.5	1738.2
12.5°	1743.1	1723.3	1727.6	1721.0	1719.4
15°	1709.8	1688.1	1690.9	1687.5	1684.6
17.5°	1671.3	1649.5	1649.8	1644.9	1644.0
20°	1643.5	1620.3	1618.2	1611.9	1615.2
22.5°	1613.3	1588.8	1586.6	1577.9	1582.2
25°	1563.0	1536.8	1534.6	1525.1	1529.7
27.5°	1504.9	1479.1	1479.1	1465.8	1470.7
30°	1462.0	1437.2	1440.0	1424.1	1430.4
32.5°	1416.5	1394.2	1395.5	1380.1	1386.3
35°	1343.6	1325.1	1324.5	1312.1	1316.7
37.5°	1269.0	1252.7	1249.9	1242.9	1244.0
40°	1217.3	1203.4	1198.3	1193.7	1193.7
42.5°	1162.8	1150.4	1145.2	1141.7	1140.5
45°	1079.8	1070.6	1065.8	1062.4	1060.9
47.5°	997.6	989.2	984.9	982.7	981.1
50°	941.1	934.8	933.2	928.3	926.7
52.5°	884.2	880.4	878.8	872.8	871.1
55°	800.4	799.0	800.4	789.5	787.8
57.5°	713.3	715.7	720.9	705.9	702.1
60°	655.3	661.3	667.9	650.5	644.2
62.5°	595.8	605.8	614.7	594.7	586.0
65°	506.7	522.3	532.0	511.1	494.2
67.5°	421.0	440.1	451.8	429.5	410.1
70°	361.4	383.2	396.2	373.6	352.2
72.5°	309.7	333.9	344.6	323.0	301.5
75°	233.8	255.3	268.3	250.4	227.2
77.5°	165.8	186.1	197.0	181.5	162.2
80°	121.6	143.2	151.6	138.6	123.3
82.5°	86.3	104.2	110.0	102.1	91.4
85°	39.4	51.7	58.5	55.3	52.0
87.5°	10.1	18.8	24.0	24.0	25.3
90°	11.4	17.1	17.1	11.4	5.7
92.5°	28.6	85.6	79.9	34.2	28.6
95°	51.4	177.0	514.0	131.3	79.9
97.5°	79.9	199.9	1028.1	468.3	251.3
100°	108.5	211.3	1199.4	1125.2	725.3
102.5°	142.8	228.5	1193.7	1582.0	1302.2
105°	177.0	251.3	1113.7	1879.0	1747.7



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CATALOG NUMBER: SQ4P-PW1-150U-125D-B35-1D-UNV

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	274.1	337.0	868.1	1890.5	2153.1
115°	308.4	371.3	828.2	1747.7	2061.8
117.5°	342.7	411.2	805.3	1616.3	1930.4
120°	371.3	445.4	788.1	1490.6	1799.1
122.5°	394.1	479.8	776.8	1387.9	1667.7
125°	417.0	514.0	771.0	1302.2	1553.5
127.5°	439.8	536.8	771.0	1239.4	1450.7
130°	462.7	548.3	765.3	1176.5	1365.0
132.5°	485.5	554.0	765.3	1130.8	1290.7
135°	502.6	565.4	765.3	1085.1	1227.9
137.5°	525.5	576.9	765.3	1045.2	1176.5
140°	542.6	594.0	765.3	1005.2	1119.4
142.5°	565.4	611.1	765.3	965.3	1068.0
145°	588.3	628.2	759.6	936.7	1016.6
147.5°	611.1	645.4	753.9	908.1	970.9
150°	628.2	662.5	753.9	879.5	930.9
152.5°	651.1	679.6	748.2	851.0	896.7
155°	668.3	691.1	748.2	833.8	862.4
157.5°	685.4	708.2	748.2	816.7	839.6
160°	702.5	719.6	753.9	805.3	822.4
162.5°	719.6	731.1	753.9	793.9	805.3
165°	731.1	736.8	753.9	788.1	793.9
167.5°	742.4	748.2	753.9	782.5	782.5
170°	748.2	753.9	759.6	776.8	776.8
172.5°	759.6	759.6	759.6	771.0	771.0
175°	765.3	765.3	759.6	771.0	765.3
177.5°	765.3	765.3	759.6	771.0	765.3
180°	765.3	765.3	765.3	765.3	765.3



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	211.3	279.9	1011.0	2010.4	2033.3
110°	239.8	308.4	930.9	1993.2	2158.9



(END OF REPORT)