

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: P844973

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

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-08
Report Number: P844973
REPORT IS A COMBINATION OF REPORTS P700138 AND P700248
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-F-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

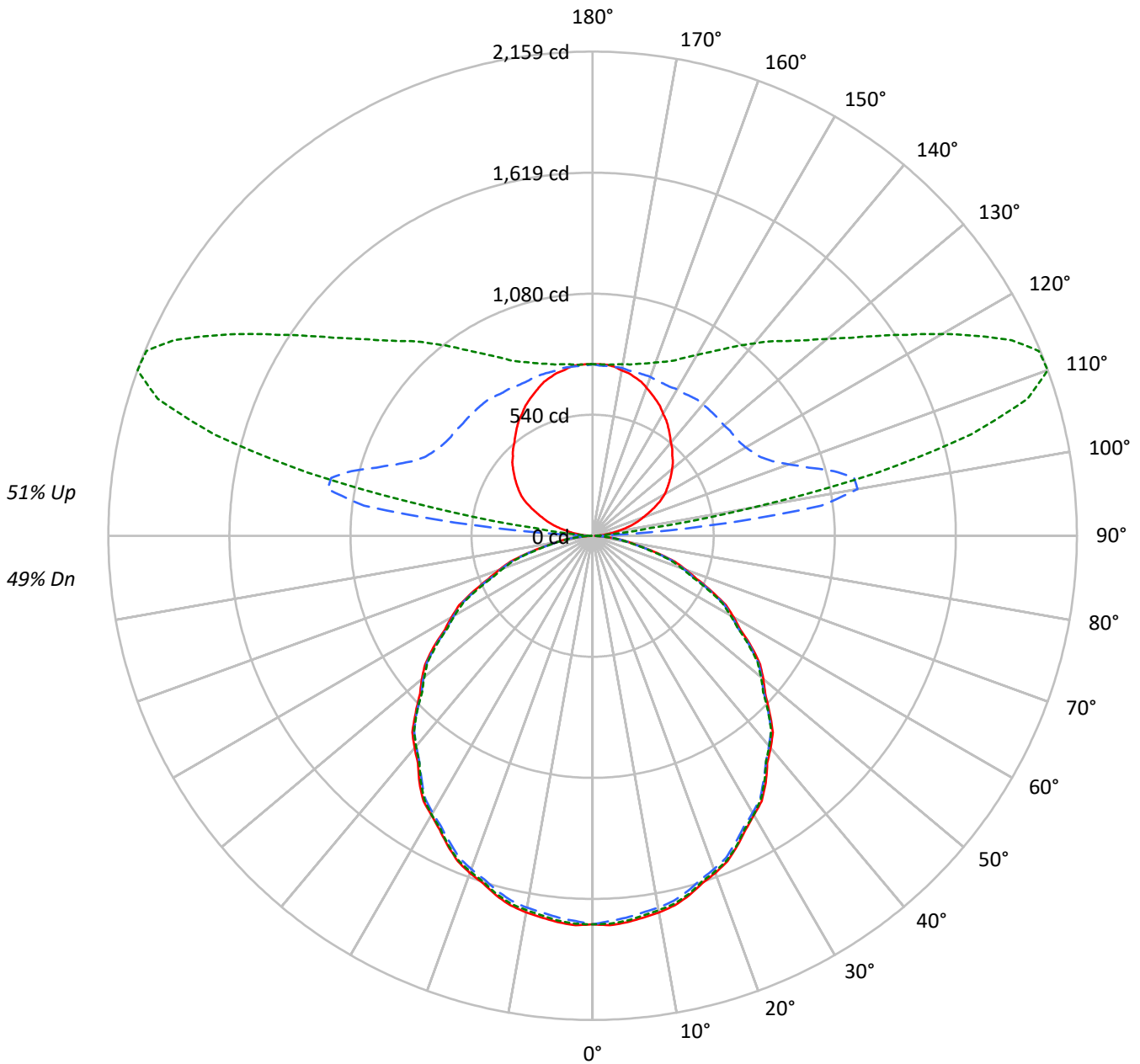
Lumens per Lamp: N/A
Luminaire Lumens: 9698.1 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

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					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	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49								
1	98	93	89	86	90	86	83	80	72	70	68	60	58	57	49	47	46	41								
2	89	81	75	70	81	75	70	65	63	59	56	53	50	47	43	41	39	34								
3	81	71	64	58	74	66	60	54	56	51	47	46	43	40	38	35	33	29								
4	74	63	55	49	68	58	51	46	50	44	40	41	37	34	34	31	28	25								
5	68	56	48	42	62	52	45	39	44	39	34	37	33	29	30	27	25	21								
6	62	50	42	36	57	47	39	34	40	34	30	33	29	26	27	24	22	19								
7	58	45	37	32	53	42	35	30	36	30	26	30	26	23	25	22	19	17								
8	53	41	33	28	49	38	31	26	33	27	23	28	23	20	23	20	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	26	21	28	22	19	24	19	16	20	16	14	12								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15986	15986	15986
5°	16028	15835	15962
10°	15972	15777	15886
15°	15862	15664	15798
20°	15712	15532	15646
25°	15537	15349	15493
30°	15322	15198	15296
35°	15156	14973	15049
40°	14867	14723	14753
45°	14559	14439	14439
50°	14252	14119	14053
55°	13919	13732	13658
60°	13400	13184	13099
65°	12760	12509	12354
70°	11888	11635	11386
75°	10662	10334	10085
80°	8629	8517	8257
85°	5124	5907	6129



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.5	1.7
10°-20°	465.6	4.8
20°-30°	699.3	7.2
30°-40°	834.8	8.6
40°-50°	855.4	8.8
50°-60°	762.9	7.9
60°-70°	568.1	5.9
70°-80°	308.4	3.2
80°-90°	73.3	0.8
90°-100°	304.6	3.1
100°-110°	1059.8	10.9
110°-120°	1026.6	10.6
120°-130°	805.3	8.3
130°-140°	637.4	6.6
140°-150°	491.9	5.1
150°-160°	352.6	3.6
160°-170°	215.7	2.2
170°-180°	73.0	0.8
0°-30°	1328.4	13.7
0°-40°	2163.2	22.3
0°-60°	3781.5	39.0
0°-90°	4731.3	48.8
90°-120°	2391.0	24.7
90°-150°	4325.6	44.6
90°-180°	4967.0	51.2
0°-180°	9698.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1733	1733	1733	1733	1733	
5°	1731	1728	1710	1726	1724	164
15°	1661	1656	1640	1654	1654	468
25°	1526	1522	1508	1517	1522	703
35°	1346	1341	1329	1329	1336	840
45°	1116	1118	1107	1104	1107	861
55°	865	865	854	847	849	771
65°	584	582	573	566	566	579
75°	299	297	290	285	283	316
85°	48	53	56	58	58	68
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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1732.7	1732.7	1732.7	1732.7	1732.7
2.5°	1738.2	1734.7	1719.8	1732.7	1731.2
5°	1730.6	1728.1	1709.8	1725.7	1723.5
7.5°	1717.9	1713.6	1695.2	1711.1	1708.7
10°	1704.9	1700.3	1684.0	1697.8	1695.7
12.5°	1688.4	1685.7	1667.6	1681.4	1680.8
15°	1660.7	1656.1	1639.9	1654.0	1654.0
17.5°	1624.7	1622.1	1606.1	1619.3	1618.0
20°	1600.3	1596.0	1581.9	1593.6	1593.6
22.5°	1570.9	1568.2	1554.4	1563.8	1565.7
25°	1526.2	1521.9	1507.8	1517.3	1521.9
27.5°	1477.2	1473.7	1462.1	1467.9	1471.3
30°	1438.2	1438.2	1426.6	1429.0	1435.8
32.5°	1403.0	1403.0	1389.5	1391.9	1395.1
35°	1345.6	1341.0	1329.4	1329.4	1336.1
37.5°	1278.5	1276.3	1269.0	1267.6	1269.5
40°	1234.4	1231.9	1222.4	1224.9	1224.9
42.5°	1189.6	1187.2	1177.8	1174.8	1178.3
45°	1115.8	1118.2	1106.6	1104.1	1106.6
47.5°	1043.2	1043.2	1033.8	1027.2	1030.7
50°	992.9	992.9	983.7	979.1	979.1
52.5°	940.9	942.8	931.4	925.1	927.0
55°	865.3	865.3	853.7	846.9	849.1
57.5°	781.7	781.7	770.2	763.3	767.3
60°	726.2	726.2	714.5	707.5	709.9
62.5°	670.4	670.4	659.0	651.9	652.2
65°	584.5	582.3	573.0	565.9	565.9
67.5°	502.0	496.0	489.0	479.8	479.8
70°	440.7	438.3	431.3	422.1	422.1
72.5°	385.0	381.0	373.9	366.6	366.6
75°	299.1	296.7	289.9	285.3	282.9
77.5°	214.4	212.5	212.0	205.5	207.4
80°	162.4	162.4	160.3	155.4	155.4
82.5°	115.9	117.8	113.7	112.6	110.8
85°	48.4	53.0	55.8	57.9	57.9
87.5°	9.5	14.6	13.0	14.9	14.9
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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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)