

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: P845391

Luminaire Tested: **SQ4P-WB-150U-100D-B40-1D-UNV**

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-08
Report Number: P845391
REPORT IS A COMBINATION OF REPORTS P700157 AND P700248
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-WB-150U-100D-B40-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 1500 LUMENS PER FOOT
UPLIGHT, 1000 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

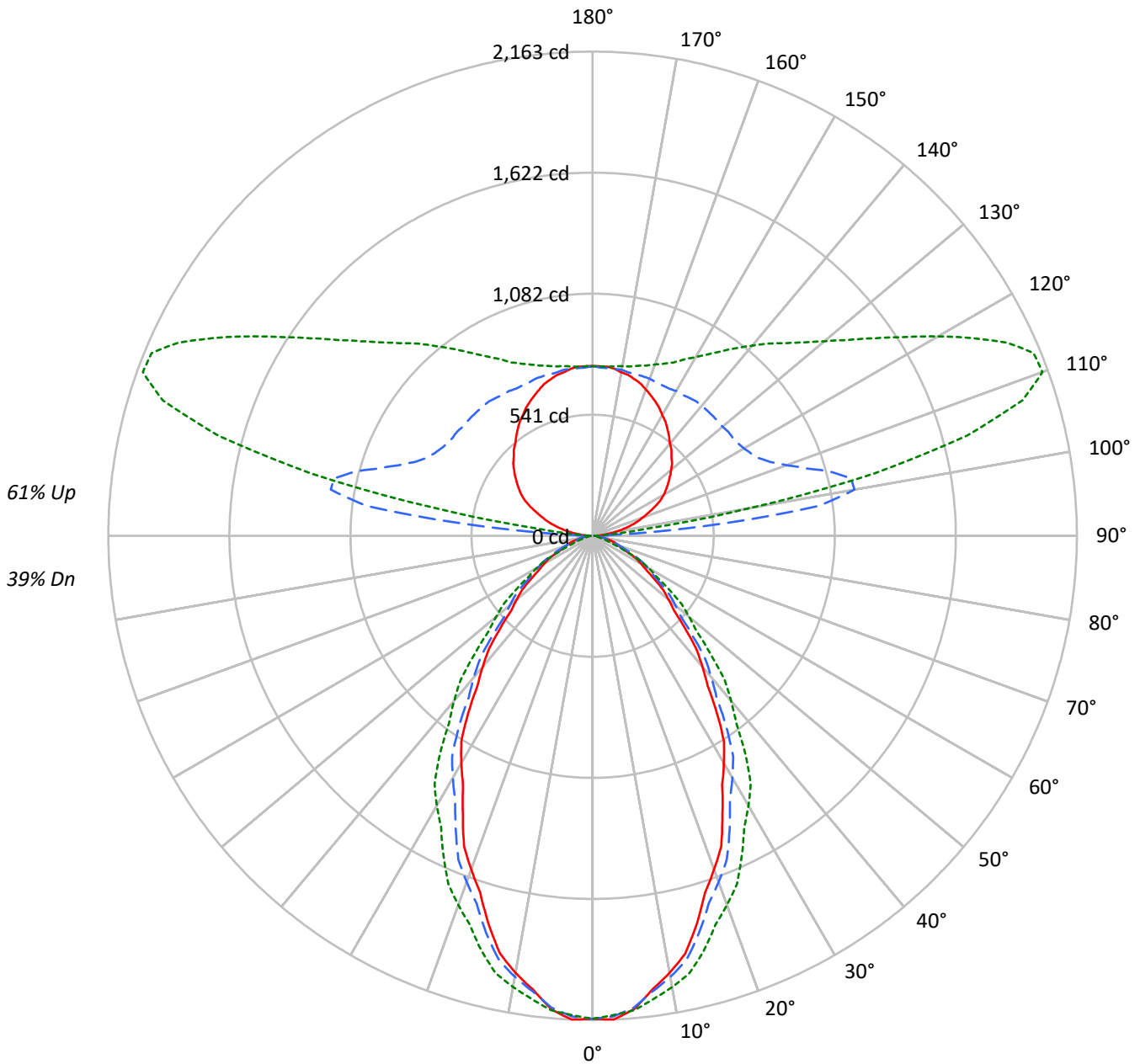
Lumens per Lamp: N/A
Luminaire Lumens: 8065.0 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 77.9
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				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	105	105	105	105	95	95	95	95	77	77	77	61	61	61	46	46	46	39				39
1	96	92	89	86	87	84	81	79	69	67	65	55	54	52	42	41	41	35				35
2	88	82	76	71	80	75	70	66	61	58	55	49	47	45	38	37	36	30				30
3	81	73	66	61	74	66	61	56	55	51	48	44	42	39	35	33	31	27				27
4	75	65	58	52	68	60	53	48	50	45	41	40	37	35	32	30	28	24				24
5	69	58	51	45	63	54	47	42	45	40	36	37	33	31	29	27	25	22				22
6	64	53	45	40	58	48	42	37	41	36	32	33	30	27	27	24	22	19				19
7	59	48	40	35	54	44	38	33	37	32	29	31	27	25	25	22	20	18				18
8	55	44	36	31	50	40	34	30	34	29	26	28	25	22	23	20	19	16				16
9	51	40	33	28	47	37	31	27	31	27	23	26	23	20	21	19	17	15				15
10	48	37	30	25	44	34	28	24	29	24	21	24	21	18	20	17	16	14				14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19910	19910	19910
5°	19662	19592	19707
10°	18576	18745	19178
15°	17148	17547	18333
20°	15573	16158	17227
25°	13968	14729	16051
30°	12490	13304	14829
35°	10920	11709	13386
40°	9191	9922	11587
45°	7585	8240	9674
50°	6331	6904	8058
55°	5376	5923	6655
60°	4595	5137	5312
65°	3659	4320	3430
70°	3245	3372	2093
75°	3002	2734	1283
80°	2768	2518	1105
85°	2488	2318	900



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.9	2.5
10°-20°	514.9	6.4
20°-30°	666.9	8.3
30°-40°	653.0	8.1
40°-50°	499.8	6.2
50°-60°	333.1	4.1
60°-70°	181.8	2.3
70°-80°	75.8	0.9
80°-90°	23.3	0.3
90°-100°	301.6	3.7
100°-110°	1049.5	13.0
110°-120°	1016.6	12.6
120°-130°	797.5	9.9
130°-140°	631.2	7.8
140°-150°	487.1	6.0
150°-160°	349.2	4.3
160°-170°	213.6	2.6
170°-180°	72.2	0.9
0°-30°	1379.7	17.1
0°-40°	2032.7	25.2
0°-60°	2865.6	35.5
0°-90°	3146.4	39.0
90°-120°	2367.8	29.4
90°-150°	4283.6	53.1
90°-180°	4919.0	61.0
0°-180°	8065.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2158	2158	2158	2158	2158	
5°	2123	2102	2115	2120	2128	197
15°	1795	1789	1837	1887	1919	501
25°	1372	1376	1447	1510	1577	631
35°	970	974	1040	1110	1188	603
45°	581	592	632	679	741	453
55°	334	348	368	382	414	303
65°	168	182	198	173	157	174
75°	84	84	77	53	36	90
85°	24	24	22	14	8	26
90°	11	17	17	11	6	8
95°	51	175	509	130	79	54
105°	175	249	1103	1861	1731	184
115°	305	368	820	1731	2042	302
125°	413	509	764	1290	1538	370
135°	498	560	758	1075	1216	386
145°	583	622	752	928	1007	364
155°	662	684	741	826	854	305
165°	724	730	747	780	786	204
175°	758	758	752	764	758	72
180°	758	758	758	758	758	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2158.0	2158.0	2158.0	2158.0	2158.0
2.5°	2163.3	2144.1	2149.0	2148.8	2142.8
5°	2123.0	2101.6	2115.4	2120.2	2127.8
7.5°	2044.1	2028.1	2053.2	2071.6	2086.6
10°	1982.8	1968.9	2000.8	2027.9	2047.1
12.5°	1911.7	1899.8	1939.6	1975.5	2001.1
15°	1795.3	1788.9	1837.1	1887.1	1919.4
17.5°	1671.0	1667.8	1723.0	1781.3	1822.7
20°	1586.1	1585.2	1645.7	1706.5	1754.6
22.5°	1500.5	1502.4	1566.1	1629.4	1684.2
25°	1372.1	1375.8	1446.9	1510.0	1576.7
27.5°	1253.4	1255.1	1328.4	1395.1	1466.2
30°	1172.4	1176.8	1248.8	1317.9	1391.9
32.5°	1091.4	1096.7	1167.2	1238.4	1313.9
35°	969.5	974.3	1039.6	1109.8	1188.5
37.5°	844.2	850.5	908.7	974.7	1052.3
40°	763.1	772.5	823.8	886.2	962.1
42.5°	685.1	696.7	744.2	803.5	871.8
45°	581.3	592.5	631.5	679.3	741.4
47.5°	492.0	504.8	534.8	576.0	628.9
50°	441.1	453.3	481.0	511.5	561.4
52.5°	396.5	408.6	433.3	456.8	499.5
55°	334.2	348.1	368.2	382.4	413.7
57.5°	283.2	296.4	312.5	318.7	337.8
60°	249.0	263.9	278.4	277.6	287.9
62.5°	218.0	230.6	245.0	234.9	235.6
65°	167.6	181.6	197.9	173.0	157.1
67.5°	135.5	138.3	155.2	120.6	101.8
70°	120.3	120.3	125.0	93.4	77.6
72.5°	105.9	105.9	101.7	75.9	59.4
75°	84.2	84.2	76.7	52.7	36.0
77.5°	64.9	64.3	58.7	39.2	26.2
80°	52.1	52.1	47.4	31.1	20.8
82.5°	40.7	40.7	36.6	24.2	15.4
85°	23.5	23.5	21.9	14.1	8.5
87.5°	8.3	8.3	7.5	4.5	3.9
90°	11.3	17.0	17.0	11.3	5.6
92.5°	28.3	84.8	79.2	33.9	28.3
95°	50.9	175.3	509.0	130.0	79.2
97.5°	79.2	198.0	1018.1	463.8	248.9
100°	107.5	209.2	1187.8	1114.2	718.3
102.5°	141.4	226.3	1182.1	1566.7	1289.5
105°	175.3	248.9	1102.9	1860.8	1730.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	271.4	333.7	859.7	1872.1	2132.2
115°	305.4	367.7	820.1	1730.7	2041.8
117.5°	339.4	407.2	797.4	1600.6	1911.7
120°	367.7	441.1	780.5	1476.2	1781.6
122.5°	390.2	475.1	769.2	1374.4	1651.5
125°	412.9	509.0	763.5	1289.5	1538.4
127.5°	435.5	531.6	763.5	1227.3	1436.6
130°	458.2	543.0	757.9	1165.1	1351.7
132.5°	480.8	548.6	757.9	1119.8	1278.2
135°	497.7	559.9	757.9	1074.6	1216.0
137.5°	520.4	571.3	757.9	1035.1	1165.1
140°	537.3	588.2	757.9	995.4	1108.5
142.5°	559.9	605.2	757.9	955.9	1057.6
145°	582.6	622.1	752.2	927.6	1006.8
147.5°	605.2	639.1	746.6	899.3	961.5
150°	622.1	656.1	746.6	871.0	921.9
152.5°	644.8	673.0	740.9	842.7	888.0
155°	661.8	684.4	740.9	825.7	854.0
157.5°	678.7	701.3	740.9	808.8	831.5
160°	695.7	712.6	746.6	797.4	814.4
162.5°	712.6	724.0	746.6	786.2	797.4
165°	724.0	729.6	746.6	780.5	786.2
167.5°	735.2	740.9	746.6	774.9	774.9
170°	740.9	746.6	752.2	769.2	769.2
172.5°	752.2	752.2	752.2	763.5	763.5
175°	757.9	757.9	752.2	763.5	757.9
177.5°	757.9	757.9	752.2	763.5	757.9
180°	757.9	757.9	757.9	757.9	757.9



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	209.2	277.2	1001.1	1990.8	2013.5
110°	237.5	305.4	921.9	1973.9	2137.9



(END OF REPORT)