

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P519608

Luminaire Tested: **SQ4-WB-150U-100D-930-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519608
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, G2-2009-966-13)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-WB-150U-100D-930-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

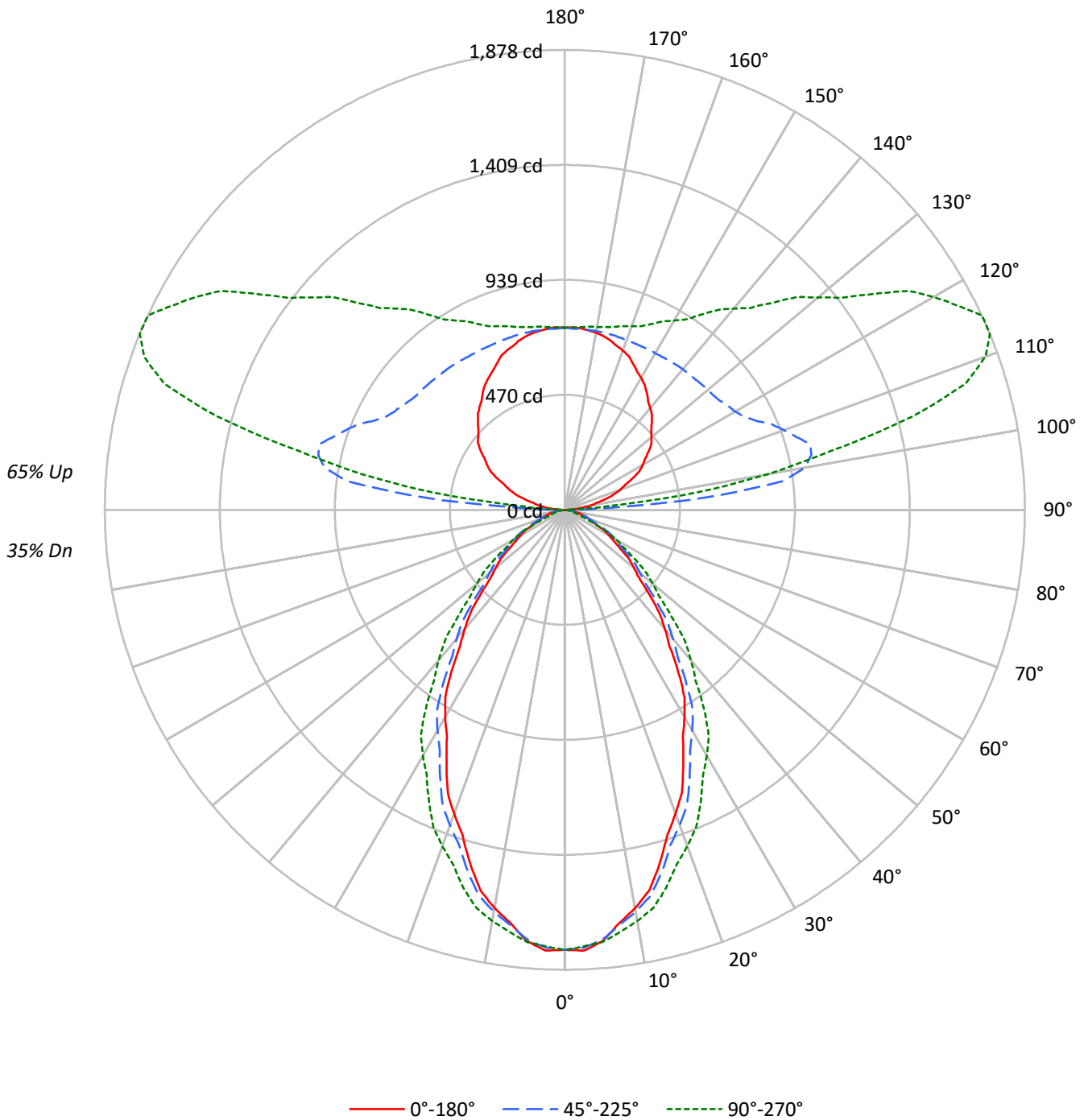
Lumens per Lamp: N/A
Luminaire Lumens: 7413.4 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 72.3
Input Voltage (V): 120
Input Current (Ain): 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: 24 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	0
RCR																		
0	104	104	104	104	94	94	94	94	75	75	75	58	58	58	43	43	43	35
1	95	91	88	85	86	83	80	77	67	65	63	52	51	50	39	38	38	31
2	87	81	75	71	79	73	69	65	60	56	54	47	45	43	35	34	33	28
3	80	72	65	60	73	65	60	55	53	49	46	42	40	37	32	30	29	24
4	74	64	57	51	67	58	52	47	48	44	40	38	35	33	29	27	26	22
5	68	57	50	44	62	53	46	41	43	39	35	35	31	29	27	25	23	20
6	63	52	44	39	57	47	41	36	39	35	31	32	28	26	25	22	21	18
7	58	47	40	34	53	43	37	32	36	31	28	29	26	23	23	20	19	16
8	54	43	36	31	49	39	33	29	33	28	25	27	23	21	21	19	17	15
9	51	39	32	27	46	36	30	26	30	26	22	25	21	19	20	17	16	13
10	47	36	29	25	43	33	27	23	28	23	20	23	20	17	18	16	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16579	16579	16579
5°	16371	16313	16408
10°	15467	15608	15970
15°	14279	14610	15265
20°	12966	13454	14345
25°	11630	12264	13364
30°	10399	11080	12347
35°	9094	9750	11145
40°	7654	8261	9648
45°	6316	6862	8054
50°	5273	5749	6710
55°	4477	4933	5541
60°	3827	4277	4423
65°	3048	3598	2858
70°	2700	2808	1745
75°	2502	2278	1069
80°	2306	2093	919
85°	2085	1916	752



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.8	2.2
10°-20°	428.7	5.8
20°-30°	555.3	7.5
30°-40°	543.8	7.3
40°-50°	416.2	5.6
50°-60°	277.3	3.7
60°-70°	151.3	2.0
70°-80°	63.1	0.9
80°-90°	19.4	0.3
90°-100°	345.5	4.7
100°-110°	934.2	12.6
110°-120°	982.2	13.2
120°-130°	797.8	10.8
130°-140°	625.8	8.4
140°-150°	480.3	6.5
150°-160°	345.4	4.7
160°-170°	211.0	2.8
170°-180°	71.1	1.0
0°-30°	1148.8	15.5
0°-40°	1692.5	22.8
0°-60°	2386.1	32.2
0°-90°	2619.9	35.3
90°-120°	2262.0	30.5
90°-150°	4166.0	56.2
90°-180°	4794.0	64.7
0°-180°	7413.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1797	1797	1797	1797	1797	
5°	1768	1750	1761	1766	1772	164
15°	1495	1490	1530	1571	1598	417
25°	1142	1146	1205	1257	1313	525
35°	807	811	866	924	990	502
45°	484	493	526	566	617	378
55°	278	290	307	318	344	252
65°	140	151	165	144	131	145
75°	70	70	64	44	30	75
85°	20	20	18	12	7	21
90°	2	5	10	11	10	5
95°	54	188	575	297	177	56
105°	174	268	1036	1529	1466	183
115°	306	374	860	1664	1878	302
125°	419	480	775	1307	1536	373
135°	502	561	754	1056	1195	388
145°	583	627	744	904	972	365
155°	659	684	737	810	837	304
165°	717	724	740	769	773	202
175°	744	744	741	751	749	71
180°	744	744	744	744	744	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1796.9	1796.9	1796.9	1796.9	1796.9
2.5°	1801.3	1785.2	1789.3	1789.2	1784.2
5°	1767.7	1749.9	1761.4	1765.5	1771.6
7.5°	1702.1	1688.7	1709.5	1724.9	1737.4
10°	1651.0	1639.4	1666.0	1688.4	1704.6
12.5°	1591.7	1582.0	1614.9	1645.0	1666.1
15°	1494.9	1489.5	1529.6	1571.2	1598.2
17.5°	1391.3	1388.7	1434.6	1483.2	1517.7
20°	1320.6	1319.9	1370.3	1420.9	1461.0
22.5°	1249.4	1251.1	1304.1	1356.7	1402.3
25°	1142.4	1145.5	1204.7	1257.2	1312.8
27.5°	1043.6	1045.0	1106.2	1161.6	1220.8
30°	976.1	979.9	1040.0	1097.3	1159.0
32.5°	908.6	913.1	971.8	1031.1	1094.0
35°	807.4	811.2	865.7	924.0	989.5
37.5°	703.0	708.2	756.6	811.7	876.1
40°	635.5	643.2	685.9	737.8	801.1
42.5°	570.5	580.1	619.7	668.9	726.0
45°	484.1	493.4	525.9	565.7	617.3
47.5°	409.7	420.3	445.3	479.6	523.7
50°	367.4	377.4	400.5	425.9	467.5
52.5°	330.2	340.2	360.8	380.4	415.8
55°	278.3	289.9	306.7	318.3	344.5
57.5°	235.7	246.8	260.2	265.4	281.3
60°	207.4	219.7	231.8	231.2	239.7
62.5°	181.5	192.0	204.0	195.7	196.2
65°	139.6	151.1	164.8	144.0	130.9
67.5°	112.7	115.2	129.3	100.4	84.8
70°	100.1	100.1	104.1	77.8	64.7
72.5°	88.1	88.1	84.5	63.2	49.5
75°	70.2	70.2	63.9	43.8	30.0
77.5°	54.1	53.5	48.9	32.7	21.8
80°	43.4	43.4	39.4	25.8	17.3
82.5°	33.9	33.9	30.6	20.2	12.9
85°	19.7	19.7	18.1	11.7	7.1
87.5°	7.3	7.9	8.4	6.0	5.2
90°	1.6	4.7	10.4	11.2	10.4
92.5°	22.7	82.8	163.4	70.9	51.4
95°	53.6	188.2	574.6	297.4	176.9
97.5°	86.1	215.9	895.7	741.3	544.4
100°	110.4	227.0	995.6	1038.3	839.5
102.5°	132.9	242.6	1030.8	1263.5	1114.8
105°	173.7	268.4	1036.4	1528.8	1466.2
107.5°	211.4	297.8	991.1	1694.3	1715.1
110°	240.9	319.1	950.8	1738.7	1827.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	267.1	340.4	913.6	1729.8	1878.3
115°	305.7	373.8	859.5	1663.9	1878.3
117.5°	343.5	407.4	823.8	1563.3	1806.3
120°	366.5	429.1	802.7	1491.0	1739.1
122.5°	388.3	449.7	789.9	1413.6	1663.5
125°	418.6	479.6	774.7	1307.3	1535.8
127.5°	446.4	506.4	765.7	1220.6	1421.5
130°	461.8	523.6	761.9	1167.0	1348.5
132.5°	477.8	539.0	758.1	1118.6	1285.8
135°	501.8	561.3	753.9	1055.6	1194.9
137.5°	526.0	582.2	750.4	1004.4	1117.9
140°	542.6	595.0	749.1	971.5	1072.4
142.5°	558.6	607.9	746.5	941.7	1030.2
145°	583.4	627.3	743.5	903.5	972.4
147.5°	606.0	644.8	740.0	868.9	921.8
150°	622.6	657.1	738.7	850.1	892.4
152.5°	638.0	668.1	738.1	832.6	867.4
155°	658.7	684.5	737.1	810.5	837.1
157.5°	680.1	698.1	737.3	795.1	812.6
160°	692.3	707.1	737.9	785.4	797.9
162.5°	701.9	714.2	738.5	777.6	787.0
165°	717.1	724.1	740.3	769.2	773.1
167.5°	727.5	732.3	740.5	761.9	763.8
170°	733.9	736.2	741.1	758.7	758.7
172.5°	739.0	739.5	741.1	754.8	754.2
175°	744.3	743.5	741.1	750.7	749.1
177.5°	746.1	744.2	740.9	747.3	745.4
180°	743.5	743.5	743.5	743.5	743.5

(END OF REPORT)