

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: P519610

Luminaire Tested: **SQ4-WB-150U-100D-930-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519610
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-8
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

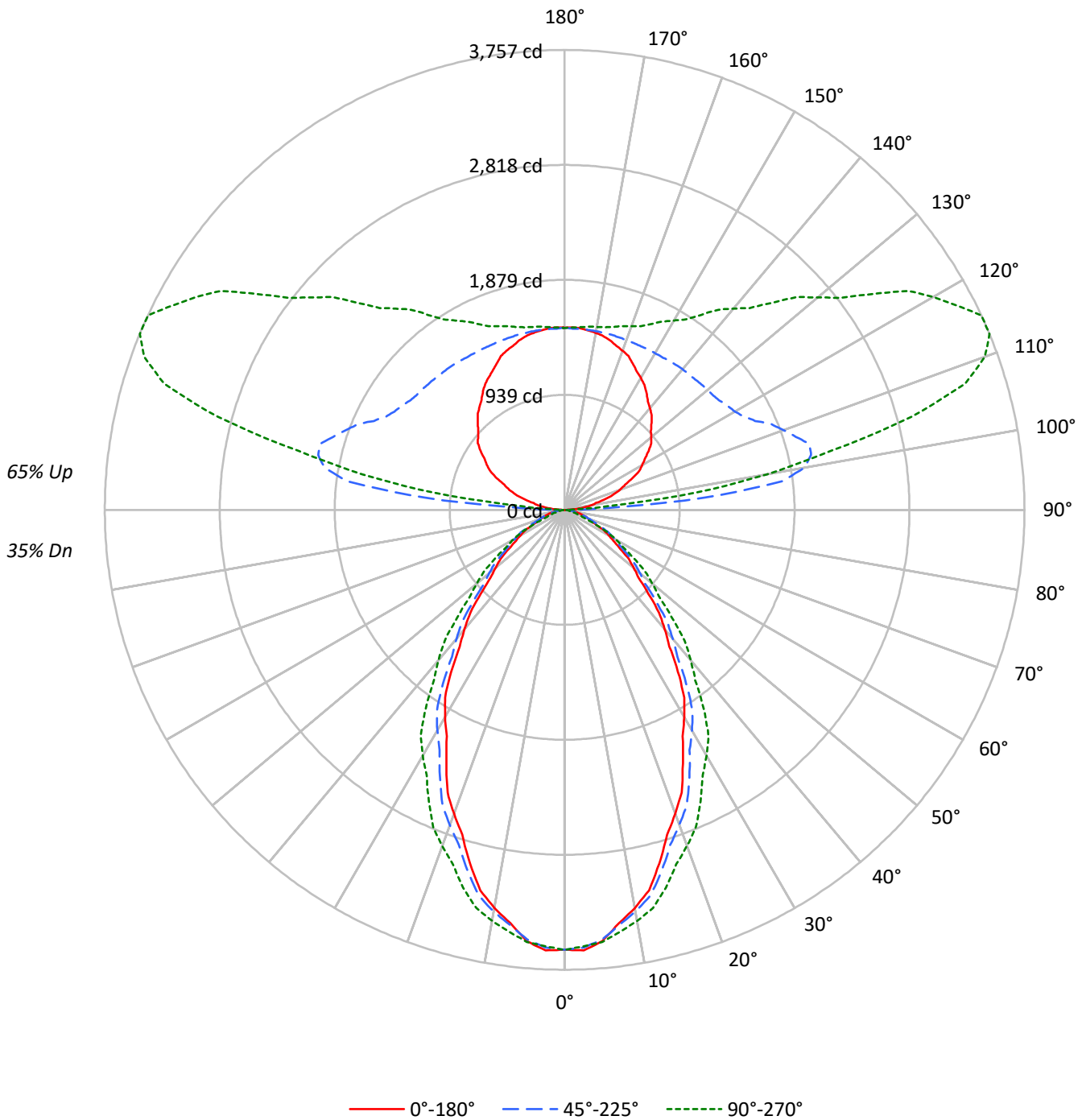
Lumens per Lamp: N/A
Luminaire Lumens: 14827.0 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 148.4
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°	16578	16578	16578
5°	16371	16313	16408
10°	15467	15608	15970
15°	14279	14610	15265
20°	12967	13454	14345
25°	11630	12264	13364
30°	10399	11079	12347
35°	9093	9750	11145
40°	7654	8262	9648
45°	6316	6862	8055
50°	5273	5749	6711
55°	4477	4933	5542
60°	3826	4277	4423
65°	3047	3598	2858
70°	2702	2807	1744
75°	2501	2276	1068
80°	2303	2093	922
85°	2085	1921	752



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	329.6	2.2
10°-20°	857.4	5.8
20°-30°	1110.6	7.5
30°-40°	1087.5	7.3
40°-50°	832.4	5.6
50°-60°	554.7	3.7
60°-70°	302.7	2.0
70°-80°	126.1	0.9
80°-90°	38.8	0.3
90°-100°	691.1	4.7
100°-110°	1868.5	12.6
110°-120°	1964.4	13.2
120°-130°	1595.6	10.8
130°-140°	1251.7	8.4
140°-150°	960.7	6.5
150°-160°	690.9	4.7
160°-170°	422.1	2.8
170°-180°	142.3	1.0
0°-30°	2297.6	15.5
0°-40°	3385.1	22.8
0°-60°	4772.2	32.2
0°-90°	5239.8	35.3
90°-120°	4524.0	30.5
90°-150°	8331.9	56.2
90°-180°	9587.0	64.7
0°-180°	14827.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3594	3594	3594	3594	3594	
5°	3535	3500	3523	3531	3543	329
15°	2990	2979	3059	3142	3196	835
25°	2285	2291	2410	2514	2626	1051
35°	1615	1622	1731	1848	1979	1004
45°	968	987	1052	1131	1235	755
55°	557	580	613	637	689	505
65°	279	302	330	288	262	290
75°	140	140	128	88	60	150
85°	39	39	36	23	14	43
90°	3	10	21	22	21	9
95°	107	376	1149	595	354	112
105°	347	537	2073	3058	2932	366
115°	611	748	1719	3328	3757	604
125°	837	959	1549	2615	3072	746
135°	1004	1122	1508	2111	2390	776
145°	1167	1254	1487	1807	1945	730
155°	1317	1369	1474	1621	1674	608
165°	1434	1448	1481	1538	1546	404
175°	1489	1487	1482	1501	1498	141
180°	1487	1487	1487	1487	1487	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3593.7	3593.7	3593.7	3593.7	3593.7
2.5°	3602.5	3570.5	3578.6	3578.3	3568.5
5°	3535.4	3499.9	3522.7	3530.9	3543.2
7.5°	3404.2	3377.3	3419.0	3449.8	3474.8
10°	3302.0	3278.9	3331.9	3376.8	3409.2
12.5°	3183.4	3164.0	3229.8	3290.0	3332.3
15°	2989.8	2979.0	3059.1	3142.4	3196.3
17.5°	2782.6	2777.3	2869.3	2966.4	3035.5
20°	2641.3	2639.7	2740.6	2841.8	2922.0
22.5°	2498.7	2502.1	2608.2	2713.4	2804.6
25°	2284.9	2291.1	2409.5	2514.5	2625.5
27.5°	2087.2	2089.9	2212.4	2323.2	2441.6
30°	1952.2	1959.9	2079.9	2194.7	2318.0
32.5°	1817.2	1826.1	1943.7	2062.3	2188.1
35°	1614.7	1622.4	1731.4	1847.9	1979.0
37.5°	1405.9	1416.4	1513.2	1623.3	1752.2
40°	1271.0	1286.4	1371.9	1475.7	1602.1
42.5°	1141.0	1160.1	1239.4	1337.9	1452.0
45°	968.2	986.7	1051.8	1131.4	1234.7
47.5°	819.3	840.6	890.6	959.2	1047.4
50°	734.8	754.9	801.1	851.8	935.1
52.5°	660.4	680.4	721.6	760.7	831.6
55°	556.6	579.8	613.4	636.7	689.1
57.5°	471.5	493.7	520.4	530.9	562.6
60°	414.7	439.4	463.6	462.4	479.4
62.5°	363.0	384.0	408.1	391.4	392.3
65°	279.1	302.2	329.6	288.0	261.8
67.5°	225.5	230.4	258.6	200.8	169.7
70°	200.3	200.3	208.1	155.5	129.3
72.5°	176.3	176.3	169.0	126.5	99.0
75°	140.3	140.3	127.7	87.7	59.9
77.5°	108.2	106.9	97.8	65.4	43.5
80°	86.7	86.7	78.8	51.7	34.7
82.5°	67.8	67.8	61.2	40.4	25.9
85°	39.4	39.4	36.3	23.4	14.2
87.5°	14.5	15.8	16.8	12.0	10.5
90°	3.2	9.5	20.8	22.4	20.8
92.5°	45.5	165.7	326.8	141.9	102.8
95°	107.2	376.4	1149.3	594.8	353.7
97.5°	172.2	431.7	1791.4	1482.5	1088.8
100°	220.9	454.1	1991.2	2076.6	1679.1
102.5°	265.7	485.1	2061.6	2527.0	2229.7
105°	347.3	536.7	2072.8	3057.6	2932.4
107.5°	422.9	595.7	1982.2	3388.5	3430.2
110°	481.8	638.3	1901.6	3477.4	3654.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	534.3	680.8	1827.3	3459.6	3756.7
115°	611.4	747.6	1719.1	3327.9	3756.7
117.5°	687.0	814.7	1647.7	3126.5	3612.6
120°	733.1	858.3	1605.4	2982.1	3478.2
122.5°	776.6	899.3	1579.8	2827.2	3327.1
125°	837.1	959.2	1549.4	2614.6	3071.6
127.5°	892.8	1012.7	1531.5	2441.1	2843.0
130°	923.6	1047.2	1523.8	2334.0	2697.1
132.5°	955.6	1078.0	1516.1	2237.3	2571.6
135°	1003.6	1122.5	1507.8	2111.2	2389.7
137.5°	1051.9	1164.3	1500.8	2008.8	2235.8
140°	1085.2	1190.1	1498.2	1943.0	2144.9
142.5°	1117.2	1215.8	1493.1	1883.5	2060.3
145°	1166.9	1254.5	1487.0	1807.0	1944.8
147.5°	1212.0	1289.6	1479.9	1737.8	1843.6
150°	1245.3	1314.2	1477.4	1700.2	1784.7
152.5°	1276.0	1336.1	1476.1	1665.3	1734.8
155°	1317.3	1369.0	1474.2	1621.1	1674.3
157.5°	1360.2	1396.2	1474.5	1590.2	1625.3
160°	1384.5	1414.3	1475.8	1570.8	1595.8
162.5°	1403.8	1428.5	1477.1	1555.3	1574.1
165°	1434.2	1448.3	1480.6	1538.4	1546.2
167.5°	1455.0	1464.7	1480.9	1523.9	1527.6
170°	1467.8	1472.5	1482.2	1517.4	1517.4
172.5°	1478.0	1479.0	1482.2	1509.7	1508.4
175°	1488.6	1487.0	1482.2	1501.3	1498.2
177.5°	1492.1	1488.4	1481.9	1494.6	1490.8
180°	1487.0	1487.0	1487.0	1487.0	1487.0

(END OF REPORT)