

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: P519617

Luminaire Tested: **SQ4-WB-150U-100D-940-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519617
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-940-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

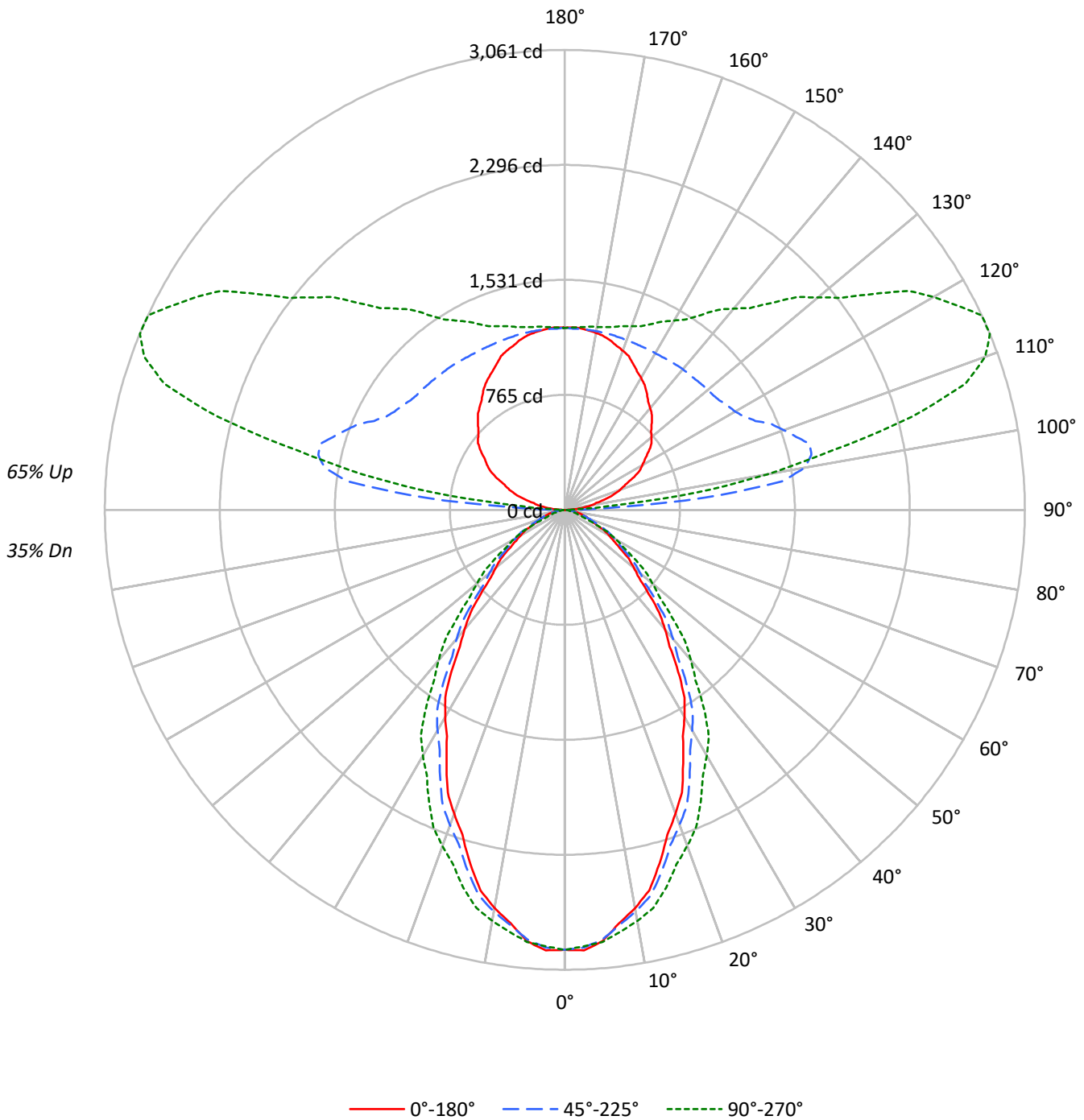
Lumens per Lamp: N/A
Luminaire Lumens: 12080.6 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 112.7
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°	18010	18010	18010
5°	17785	17721	17825
10°	16803	16956	17349
15°	15512	15872	16584
20°	14086	14616	15583
25°	12635	13324	14518
30°	11297	12036	13414
35°	9879	10593	12107
40°	8314	8975	10481
45°	6862	7455	8751
50°	5729	6246	7291
55°	4863	5360	6021
60°	4157	4646	4805
65°	3310	3908	3104
70°	2935	3050	1895
75°	2716	2474	1160
80°	2504	2274	1002
85°	2265	2089	819



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.6	2.2
10°-20°	698.6	5.8
20°-30°	904.9	7.5
30°-40°	886.1	7.3
40°-50°	678.2	5.6
50°-60°	451.9	3.7
60°-70°	246.6	2.0
70°-80°	102.8	0.9
80°-90°	31.6	0.3
90°-100°	563.1	4.7
100°-110°	1522.4	12.6
110°-120°	1600.6	13.2
120°-130°	1300.1	10.8
130°-140°	1019.8	8.4
140°-150°	782.7	6.5
150°-160°	562.9	4.7
160°-170°	343.9	2.8
170°-180°	115.9	1.0
0°-30°	1872.0	15.5
0°-40°	2758.1	22.8
0°-60°	3888.2	32.2
0°-90°	4269.2	35.3
90°-120°	3686.0	30.5
90°-150°	6788.7	56.2
90°-180°	7811.0	64.7
0°-180°	12080.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2928	2928	2928	2928	2928	
5°	2880	2852	2870	2877	2887	268
15°	2436	2427	2492	2560	2604	680
25°	1862	1867	1963	2049	2139	856
35°	1316	1322	1411	1506	1612	818
45°	789	804	857	922	1006	615
55°	454	472	500	519	562	411
65°	227	246	268	235	213	236
75°	114	114	104	71	49	122
85°	32	32	30	19	12	35
90°	3	8	17	18	17	7
95°	87	307	936	485	288	91
105°	283	437	1689	2491	2389	298
115°	498	609	1401	2712	3061	492
125°	682	782	1262	2130	2503	608
135°	818	915	1228	1720	1947	632
145°	951	1022	1212	1472	1585	595
155°	1073	1115	1201	1321	1364	495
165°	1168	1180	1206	1253	1260	329
175°	1213	1212	1208	1223	1221	115
180°	1212	1212	1212	1212	1212	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2928.1	2928.1	2928.1	2928.1	2928.1
2.5°	2935.3	2909.1	2915.7	2915.5	2907.5
5°	2880.5	2851.6	2870.2	2876.9	2886.9
7.5°	2773.6	2751.8	2785.7	2810.8	2831.2
10°	2690.4	2671.5	2714.8	2751.4	2777.7
12.5°	2593.8	2577.9	2631.5	2680.6	2715.0
15°	2436.0	2427.2	2492.5	2560.3	2604.3
17.5°	2267.2	2262.9	2337.8	2417.0	2473.2
20°	2152.0	2150.8	2233.0	2315.4	2380.7
22.5°	2035.9	2038.7	2125.1	2210.8	2285.1
25°	1861.7	1866.7	1963.2	2048.7	2139.2
27.5°	1700.6	1702.8	1802.6	1892.9	1989.4
30°	1590.6	1596.9	1694.7	1788.2	1888.7
32.5°	1480.6	1487.9	1583.6	1680.3	1782.8
35°	1315.6	1321.9	1410.7	1505.6	1612.4
37.5°	1145.5	1154.1	1232.9	1322.6	1427.7
40°	1035.5	1048.1	1117.8	1202.3	1305.4
42.5°	929.7	945.3	1009.9	1090.1	1183.0
45°	788.9	803.9	857.0	921.8	1006.0
47.5°	667.6	684.9	725.7	781.5	853.4
50°	598.7	615.0	652.7	694.0	761.9
52.5°	538.1	554.4	587.9	619.8	677.6
55°	453.5	472.4	499.8	518.7	561.5
57.5°	384.2	402.2	424.0	432.5	458.4
60°	337.9	358.0	377.7	376.8	390.6
62.5°	295.8	312.8	332.5	318.9	319.7
65°	227.4	246.3	268.5	234.6	213.3
67.5°	183.7	187.7	210.7	163.6	138.2
70°	163.2	163.2	169.6	126.7	105.4
72.5°	143.6	143.6	137.7	103.0	80.7
75°	114.3	114.3	104.1	71.4	48.8
77.5°	88.1	87.1	79.7	53.3	35.5
80°	70.7	70.7	64.2	42.1	28.3
82.5°	55.2	55.2	49.9	32.9	21.1
85°	32.1	32.1	29.6	19.1	11.6
87.5°	11.8	12.8	13.7	9.8	8.5
90°	2.6	7.7	17.0	18.2	17.0
92.5°	37.0	135.0	266.3	115.6	83.7
95°	87.4	306.7	936.4	484.6	288.2
97.5°	140.3	351.8	1459.6	1207.9	887.1
100°	180.0	370.0	1622.4	1692.0	1368.1
102.5°	216.5	395.3	1679.8	2059.0	1816.7
105°	283.0	437.3	1688.9	2491.2	2389.2
107.5°	344.6	485.3	1615.1	2760.9	2794.8
110°	392.6	520.1	1549.3	2833.3	2977.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	435.3	554.7	1488.8	2818.8	3060.9
115°	498.2	609.1	1400.7	2711.5	3060.9
117.5°	559.7	663.8	1342.5	2547.4	2943.5
120°	597.3	699.3	1308.1	2429.7	2833.9
122.5°	632.8	732.8	1287.2	2303.5	2710.8
125°	682.1	781.5	1262.4	2130.3	2502.7
127.5°	727.5	825.1	1247.8	1989.0	2316.4
130°	752.5	853.2	1241.6	1901.7	2197.5
132.5°	778.6	878.3	1235.3	1822.9	2095.3
135°	817.7	914.6	1228.5	1720.1	1947.1
137.5°	857.1	948.6	1222.8	1636.7	1821.6
140°	884.2	969.7	1220.7	1583.1	1747.6
142.5°	910.3	990.6	1216.5	1534.6	1678.7
145°	950.7	1022.1	1211.6	1472.3	1584.6
147.5°	987.5	1050.8	1205.8	1415.9	1502.1
150°	1014.6	1070.7	1203.7	1385.3	1454.1
152.5°	1039.7	1088.6	1202.7	1356.8	1413.4
155°	1073.3	1115.4	1201.1	1320.8	1364.1
157.5°	1108.3	1137.6	1201.4	1295.7	1324.2
160°	1128.1	1152.3	1202.4	1279.8	1300.2
162.5°	1143.7	1163.9	1203.5	1267.2	1282.5
165°	1168.5	1180.0	1206.3	1253.4	1259.8
167.5°	1185.5	1193.4	1206.6	1241.6	1244.7
170°	1195.9	1199.7	1207.6	1236.3	1236.3
172.5°	1204.3	1205.0	1207.6	1230.1	1229.0
175°	1212.9	1211.6	1207.6	1223.2	1220.7
177.5°	1215.7	1212.7	1207.4	1217.8	1214.7
180°	1211.6	1211.6	1211.6	1211.6	1211.6

(END OF REPORT)