

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: P519609

Luminaire Tested: **SQ4-WB-150U-100D-930-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519609
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-6
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

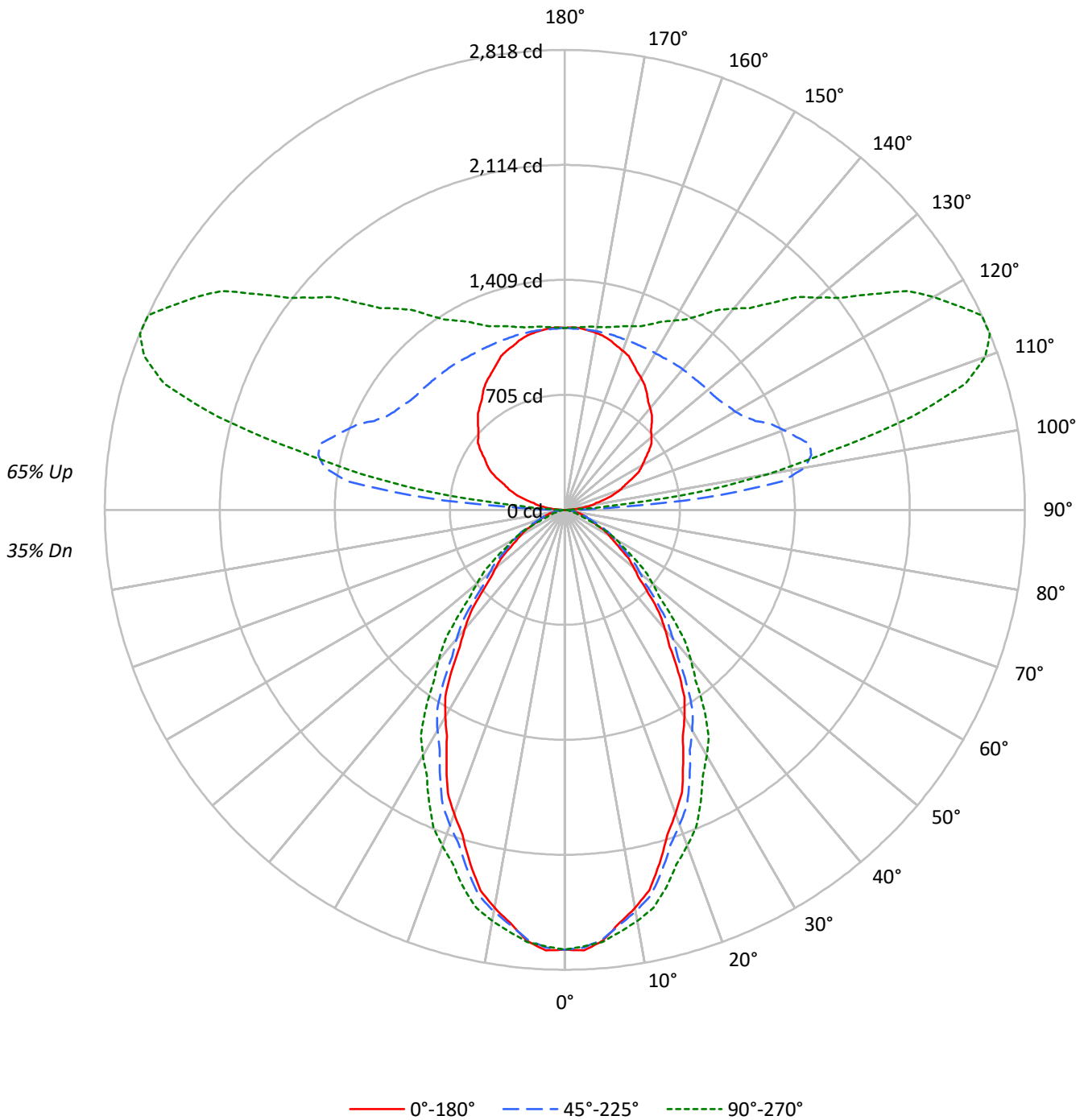
Lumens per Lamp: N/A
Luminaire Lumens: 11120.2 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

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°	16578	16578	16578
5°	16371	16313	16408
10°	15467	15608	15970
15°	14278	14610	15265
20°	12967	13454	14345
25°	11630	12264	13364
30°	10399	11079	12347
35°	9093	9751	11144
40°	7654	8261	9648
45°	6317	6861	8055
50°	5273	5749	6711
55°	4477	4934	5542
60°	3826	4277	4422
65°	3046	3598	2857
70°	2701	2807	1744
75°	2502	2277	1067
80°	2302	2093	921
85°	2089	1920	748



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.2	2.2
10°-20°	643.0	5.8
20°-30°	832.9	7.5
30°-40°	815.6	7.3
40°-50°	624.3	5.6
50°-60°	416.0	3.7
60°-70°	227.0	2.0
70°-80°	94.6	0.9
80°-90°	29.1	0.3
90°-100°	518.3	4.7
100°-110°	1401.4	12.6
110°-120°	1473.3	13.2
120°-130°	1196.7	10.8
130°-140°	938.7	8.4
140°-150°	720.5	6.5
150°-160°	518.2	4.7
160°-170°	316.5	2.8
170°-180°	106.7	1.0
0°-30°	1723.2	15.5
0°-40°	2538.8	22.8
0°-60°	3579.1	32.2
0°-90°	3929.9	35.3
90°-120°	3393.0	30.5
90°-150°	6249.0	56.2
90°-180°	7190.0	64.7
0°-180°	11120.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2695	2695	2695	2695	2695	
5°	2652	2625	2642	2648	2657	247
15°	2242	2234	2294	2357	2397	626
25°	1714	1718	1807	1886	1969	788
35°	1211	1217	1299	1386	1484	753
45°	726	740	789	848	926	566
55°	418	435	460	478	517	379
65°	209	227	247	216	196	218
75°	105	105	96	66	45	112
85°	30	30	27	18	11	32
90°	2	7	16	17	16	7
95°	80	282	862	446	265	84
105°	260	402	1555	2293	2199	274
115°	459	561	1289	2496	2818	453
125°	628	719	1162	1961	2304	560
135°	753	842	1131	1583	1792	582
145°	875	941	1115	1355	1459	547
155°	988	1027	1106	1216	1256	456
165°	1076	1086	1110	1154	1160	303
175°	1116	1115	1112	1126	1124	106
180°	1115	1115	1115	1115	1115	

TEST NUMBER: P519609

CATALOG NUMBER: SQ4-WB-150U-100D-930-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2695.3	2695.3	2695.3	2695.3	2695.3
2.5°	2701.9	2677.9	2683.9	2683.8	2676.4
5°	2651.5	2624.9	2642.1	2648.2	2657.4
7.5°	2553.1	2533.0	2564.2	2587.4	2606.1
10°	2476.5	2459.1	2499.0	2532.6	2556.9
12.5°	2387.6	2373.0	2422.3	2467.5	2499.2
15°	2242.3	2234.2	2294.4	2356.8	2397.2
17.5°	2086.9	2083.0	2152.0	2224.8	2276.6
20°	1981.0	1979.8	2055.5	2131.3	2191.5
22.5°	1874.0	1876.6	1956.1	2035.0	2103.5
25°	1713.7	1718.3	1807.1	1885.9	1969.1
27.5°	1565.4	1567.4	1659.3	1742.4	1831.2
30°	1464.1	1469.9	1559.9	1646.0	1738.5
32.5°	1362.9	1369.6	1457.7	1546.7	1641.1
35°	1211.0	1216.8	1298.6	1385.9	1484.2
37.5°	1054.5	1062.3	1134.9	1217.5	1314.2
40°	953.2	964.8	1028.9	1106.8	1201.6
42.5°	855.8	870.1	929.6	1003.4	1089.0
45°	726.2	740.0	788.8	848.5	926.0
47.5°	614.5	630.5	668.0	719.4	785.5
50°	551.1	566.2	600.8	638.9	701.3
52.5°	495.3	510.3	541.2	570.5	623.7
55°	417.5	434.8	460.1	477.5	516.8
57.5°	353.6	370.3	390.3	398.2	422.0
60°	311.0	329.5	347.7	346.8	359.5
62.5°	272.2	288.0	306.1	293.6	294.2
65°	209.3	226.7	247.2	216.0	196.3
67.5°	169.1	172.8	194.0	150.6	127.3
70°	150.2	150.2	156.1	116.6	97.0
72.5°	132.2	132.2	126.8	94.9	74.3
75°	105.3	105.3	95.8	65.8	44.9
77.5°	81.1	80.2	73.3	49.1	32.6
80°	65.0	65.0	59.1	38.7	26.0
82.5°	50.9	50.9	45.9	30.3	19.4
85°	29.6	29.6	27.2	17.6	10.6
87.5°	10.9	11.8	12.6	9.0	7.9
90°	2.4	7.1	15.6	16.8	15.6
92.5°	34.1	124.2	245.1	106.4	77.1
95°	80.4	282.3	861.9	446.1	265.3
97.5°	129.2	323.8	1343.6	1111.9	816.6
100°	165.7	340.6	1493.4	1557.4	1259.3
102.5°	199.3	363.8	1546.2	1895.3	1672.3
105°	260.5	402.5	1554.6	2293.2	2199.3
107.5°	317.2	446.8	1486.7	2541.4	2572.6
110°	361.3	478.7	1426.2	2608.0	2740.7



TEST NUMBER: P519609

CATALOG NUMBER: SQ4-WB-150U-100D-930-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	400.7	510.6	1370.5	2594.7	2817.5
115°	458.6	560.7	1289.3	2495.9	2817.5
117.5°	515.2	611.0	1235.8	2344.9	2709.5
120°	549.8	643.7	1204.1	2236.5	2608.6
122.5°	582.5	674.5	1184.9	2120.4	2495.3
125°	627.8	719.4	1162.1	1961.0	2303.7
127.5°	669.6	759.5	1148.6	1830.9	2132.3
130°	692.7	785.4	1142.9	1750.5	2022.8
132.5°	716.7	808.5	1137.1	1678.0	1928.7
135°	752.7	841.9	1130.8	1583.4	1792.3
137.5°	789.0	873.2	1125.6	1506.6	1676.8
140°	813.9	892.6	1123.6	1457.2	1608.6
142.5°	837.9	911.9	1119.8	1412.6	1545.3
145°	875.1	940.9	1115.2	1355.3	1458.6
147.5°	909.0	967.2	1110.0	1303.4	1382.7
150°	934.0	985.6	1108.0	1275.1	1338.5
152.5°	957.0	1002.1	1107.1	1249.0	1301.1
155°	988.0	1026.7	1105.6	1215.8	1255.7
157.5°	1020.2	1047.2	1105.9	1192.7	1219.0
160°	1038.4	1060.7	1106.8	1178.1	1196.9
162.5°	1052.8	1071.4	1107.8	1166.5	1180.5
165°	1075.6	1086.2	1110.4	1153.8	1159.7
167.5°	1091.2	1098.5	1110.7	1142.9	1145.7
170°	1100.8	1104.4	1111.6	1138.1	1138.1
172.5°	1108.5	1109.2	1111.6	1132.3	1131.3
175°	1116.4	1115.3	1111.6	1126.0	1123.6
177.5°	1119.1	1116.3	1111.4	1120.9	1118.1
180°	1115.2	1115.2	1115.2	1115.2	1115.2

(END OF REPORT)