

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: P519398

Luminaire Tested: **SQ4-WB-100U-075D-935-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519398
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-100U-075D-935-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

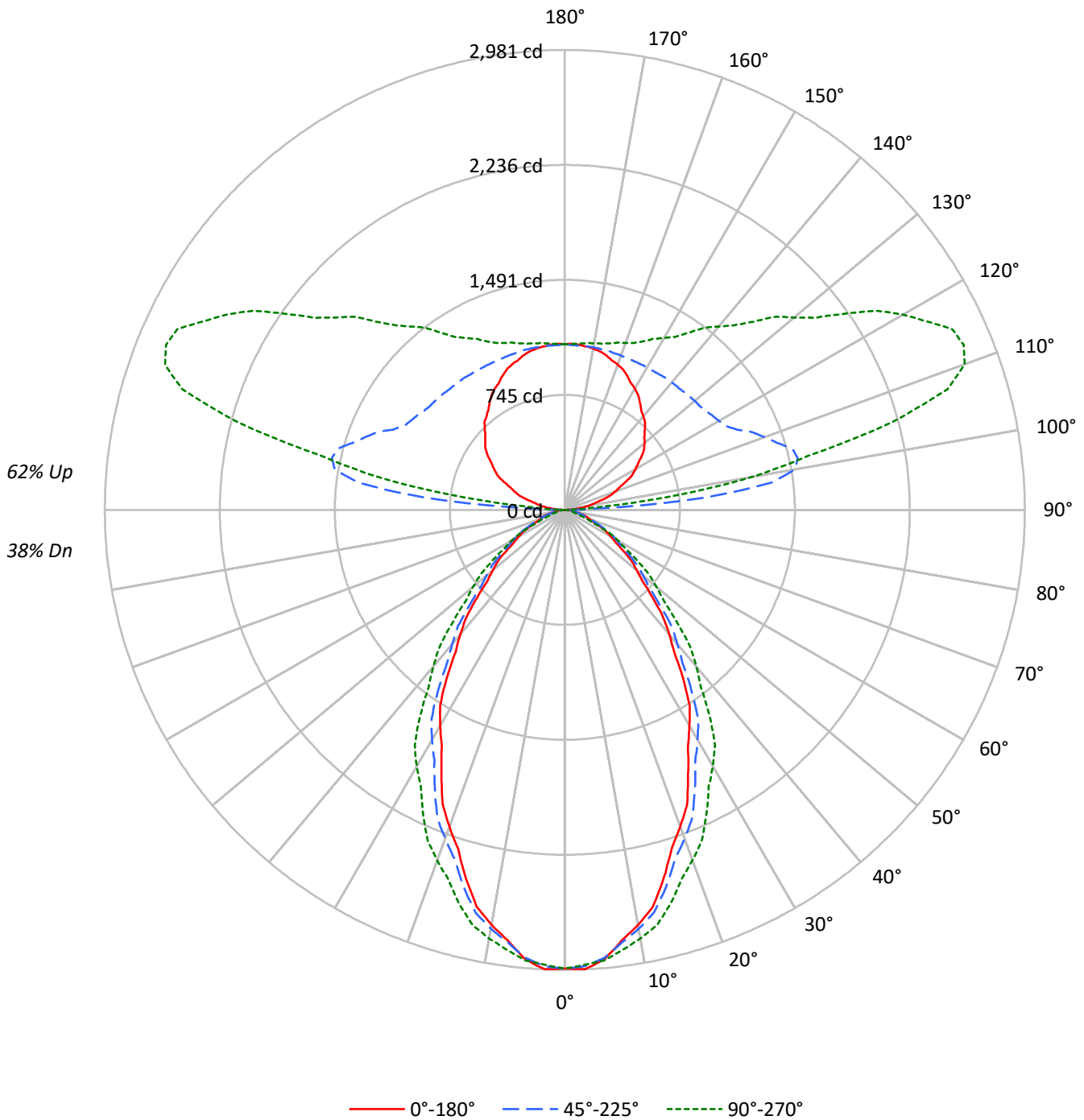
Lumens per Lamp: N/A
Luminaire Lumens: 11314.7 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 103.9
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	95	95	95	95	77	77	77	60	60	60	45	45	45	38
1	96	92	89	85	87	84	81	78	69	67	65	54	53	52	41	41	40	34
2	88	81	76	71	80	74	70	66	61	58	55	49	47	45	38	36	35	30
3	81	72	66	60	74	66	61	56	55	51	47	44	41	39	34	32	31	26
4	75	65	57	52	68	59	53	48	49	45	41	40	37	34	31	29	27	24
5	69	58	51	45	62	53	47	42	45	40	36	36	33	30	29	26	25	21
6	64	52	45	40	58	48	42	37	40	36	32	33	30	27	26	24	22	19
7	59	48	40	35	54	44	37	33	37	32	29	30	27	24	24	22	20	17
8	55	43	36	31	50	40	34	29	34	29	26	28	24	22	23	20	18	16
9	51	40	33	28	47	37	31	26	31	26	23	26	22	20	21	19	17	15
10	48	37	30	25	44	34	28	24	29	24	21	24	21	18	20	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13718	13718	13718
5°	13546	13498	13576
10°	12798	12915	13214
15°	11814	12089	12631
20°	10729	11133	11869
25°	9623	10148	11058
30°	8604	9167	10217
35°	7524	8068	9222
40°	6333	6836	7983
45°	5226	5678	6665
50°	4363	4757	5553
55°	3704	4082	4586
60°	3166	3539	3659
65°	2520	2977	2364
70°	2235	2323	1443
75°	2069	1884	884
80°	1907	1732	762
85°	1725	1588	619



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.7	2.4
10°-20°	709.4	6.3
20°-30°	918.9	8.1
30°-40°	899.8	8.0
40°-50°	688.8	6.1
50°-60°	459.0	4.1
60°-70°	250.5	2.2
70°-80°	104.4	0.9
80°-90°	31.8	0.3
90°-100°	503.0	4.4
100°-110°	1388.8	12.3
110°-120°	1432.3	12.7
120°-130°	1150.9	10.2
130°-140°	904.5	8.0
140°-150°	693.7	6.1
150°-160°	498.6	4.4
160°-170°	304.9	2.7
170°-180°	102.8	0.9
0°-30°	1901.1	16.8
0°-40°	2800.9	24.8
0°-60°	3948.6	34.9
0°-90°	4335.2	38.3
90°-120°	3324.1	29.4
90°-150°	6073.2	53.7
90°-180°	6979.0	61.7
0°-180°	11314.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2974	2974	2974	2974	2974	
5°	2925	2896	2915	2922	2932	272
15°	2474	2465	2531	2600	2645	691
25°	1891	1896	1994	2081	2172	869
35°	1336	1342	1433	1529	1638	831
45°	801	816	870	936	1022	625
55°	461	480	508	527	570	418
65°	231	250	273	238	217	240
75°	116	116	106	72	50	124
85°	33	33	30	19	12	36
90°	3	7	14	16	17	7
95°	74	272	913	375	244	79
105°	248	382	1528	2333	2196	263
115°	443	536	1231	2436	2770	436
125°	608	692	1115	1888	2215	541
135°	732	811	1084	1529	1724	566
145°	849	908	1071	1302	1401	532
155°	957	989	1062	1168	1205	441
165°	1036	1050	1067	1109	1117	292
175°	1074	1076	1069	1084	1081	102
180°	1074	1074	1074	1074	1074	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2973.6	2973.6	2973.6	2973.6	2973.6
2.5°	2980.9	2954.3	2961.0	2960.8	2952.7
5°	2925.3	2895.9	2914.8	2921.6	2931.8
7.5°	2816.7	2794.5	2829.0	2854.5	2875.2
10°	2732.2	2713.0	2757.0	2794.1	2820.9
12.5°	2634.1	2618.0	2672.4	2722.3	2757.2
15°	2473.8	2464.9	2531.2	2600.1	2644.8
17.5°	2302.4	2298.0	2374.1	2454.5	2511.7
20°	2185.5	2184.2	2267.7	2351.4	2417.7
22.5°	2067.5	2070.3	2158.1	2245.1	2320.6
25°	1890.6	1895.7	1993.7	2080.6	2172.4
27.5°	1727.0	1729.3	1830.6	1922.3	2020.3
30°	1615.3	1621.7	1721.0	1815.9	1918.0
32.5°	1503.6	1511.0	1608.2	1706.4	1810.5
35°	1336.1	1342.5	1432.6	1529.0	1637.5
37.5°	1163.3	1172.0	1252.0	1343.2	1449.9
40°	1051.6	1064.4	1135.1	1221.0	1325.6
42.5°	944.1	959.9	1025.5	1107.0	1201.4
45°	801.1	816.4	870.3	936.2	1021.6
47.5°	678.0	695.6	736.9	793.6	866.6
50°	608.0	624.6	662.8	704.8	773.7
52.5°	546.4	563.0	597.1	629.4	688.1
55°	460.6	479.7	507.6	526.8	570.2
57.5°	390.1	408.5	430.6	439.3	465.5
60°	343.2	363.6	383.6	382.6	396.6
62.5°	300.4	317.7	337.7	323.9	324.6
65°	230.9	250.1	272.7	238.3	216.6
67.5°	186.6	190.7	214.0	166.2	140.4
70°	165.7	165.7	172.2	128.7	107.0
72.5°	145.9	145.9	139.9	104.6	81.9
75°	116.1	116.1	105.7	72.5	49.6
77.5°	89.5	88.5	80.9	54.1	36.0
80°	71.8	71.8	65.2	42.7	28.7
82.5°	56.1	56.1	50.6	33.4	21.4
85°	32.6	32.6	30.0	19.4	11.7
87.5°	12.2	12.8	13.2	9.3	8.7
90°	3.4	6.8	13.7	15.5	17.2
92.5°	30.9	128.4	229.6	83.8	65.3
95°	73.9	272.2	912.6	375.1	244.1
97.5°	122.4	304.9	1351.9	1040.9	753.8
100°	158.1	324.5	1514.2	1524.9	1239.2
102.5°	192.5	346.8	1545.8	1884.1	1613.2
105°	247.5	381.9	1527.9	2332.6	2196.5
107.5°	305.9	425.6	1442.7	2548.9	2598.7
110°	347.2	454.7	1376.7	2595.5	2756.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	384.3	487.8	1314.8	2558.7	2796.7
115°	443.4	535.9	1230.6	2436.1	2770.5
117.5°	495.0	587.1	1175.2	2263.6	2644.0
120°	529.4	620.1	1153.2	2146.8	2529.9
122.5°	562.4	649.1	1135.4	2037.7	2400.7
125°	608.4	692.4	1115.4	1887.7	2215.4
127.5°	647.6	731.6	1103.7	1760.9	2043.5
130°	673.7	757.8	1098.2	1683.3	1940.4
132.5°	698.5	778.5	1092.7	1618.1	1851.0
135°	732.2	811.1	1084.5	1528.9	1723.9
137.5°	770.0	841.9	1080.4	1454.0	1620.4
140°	790.6	861.2	1077.6	1404.1	1550.3
142.5°	814.0	879.2	1074.9	1359.7	1488.4
145°	849.0	907.9	1070.7	1301.6	1400.7
147.5°	882.7	934.1	1067.0	1252.6	1329.6
150°	907.5	949.5	1065.6	1223.4	1285.6
152.5°	926.7	966.0	1064.2	1198.4	1249.8
155°	957.3	989.2	1062.2	1167.8	1204.8
157.5°	985.5	1010.0	1062.5	1145.6	1170.8
160°	1002.0	1023.8	1063.9	1133.0	1151.5
162.5°	1015.8	1034.9	1065.2	1122.0	1136.4
165°	1036.4	1049.8	1067.3	1108.8	1117.2
167.5°	1052.2	1060.3	1069.0	1100.7	1103.4
170°	1060.4	1067.2	1069.0	1096.5	1096.5
172.5°	1067.3	1071.3	1069.0	1091.0	1089.7
175°	1074.2	1075.9	1069.0	1084.4	1081.1
177.5°	1076.9	1075.6	1068.7	1078.2	1075.6
180°	1074.2	1074.2	1074.2	1074.2	1074.2

(END OF REPORT)