

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: P564980

Luminaire Tested: **SQ4-PW1-100U-125D-830-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564980
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-100U-125D-830-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

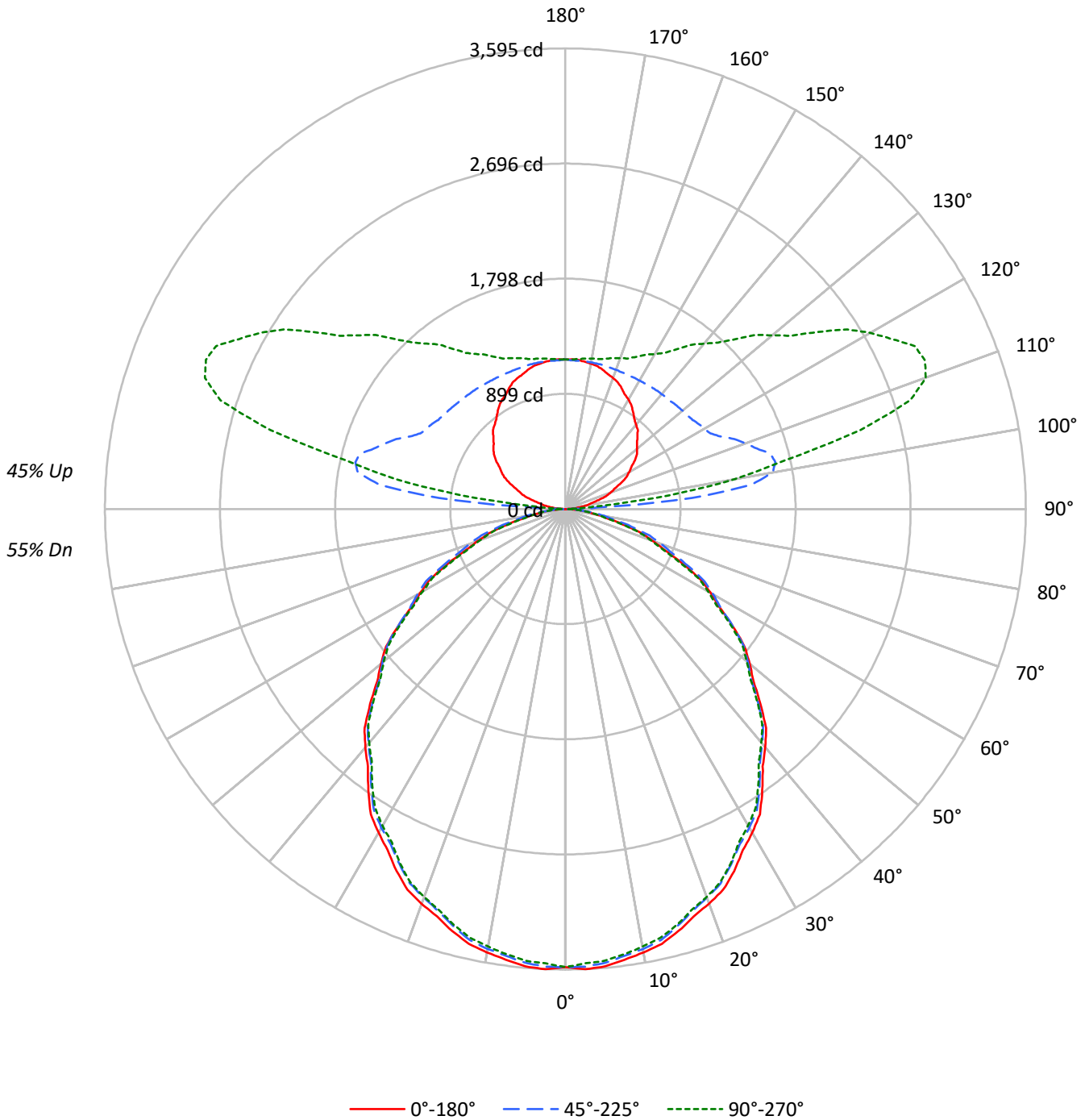
Lumens per Lamp: N/A
Luminaire Lumens: 16680.5 lumens
Efficiency: N/A
Efficacy: 118.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 140.6
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	108	108	108	108	100	100	100	100	86	86	86	73	73	73	60	60	60	55
1	99	95	91	87	92	88	85	82	76	73	71	64	62	61	53	52	51	46
2	90	83	77	71	83	77	72	67	66	62	59	56	53	51	47	45	43	39
3	82	73	65	60	76	68	61	56	59	54	49	50	46	43	42	39	37	33
4	75	64	57	50	70	60	53	48	52	47	42	44	40	37	37	34	32	28
5	69	57	49	43	64	54	46	41	47	41	36	40	36	32	34	30	28	25
6	64	52	43	38	59	48	41	36	42	36	32	36	32	28	31	27	24	22
7	59	47	39	33	55	44	36	31	38	32	28	33	28	25	28	24	22	19
8	55	42	35	29	51	40	33	28	35	29	25	30	26	22	26	22	19	17
9	51	39	31	26	47	36	30	25	32	26	22	28	23	20	24	20	18	15
10	48	36	28	23	44	33	27	22	29	24	20	26	21	18	22	19	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16493	16493	16493
5°	16599	16468	16395
10°	16467	16334	16246
15°	16292	16112	16052
20°	16098	15850	15819
25°	15873	15584	15536
30°	15537	15302	15201
35°	15096	14883	14794
40°	14625	14397	14340
45°	14056	13871	13809
50°	13474	13360	13270
55°	12844	12844	12642
60°	12060	12293	11858
65°	11037	11587	10762
70°	9729	10663	9474
75°	8309	9545	8085
80°	6442	8033	6527
85°	4166	6166	5499



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	336.7	2.0
10°-20°	950.5	5.7
20°-30°	1409.9	8.5
30°-40°	1649.7	9.9
40°-50°	1642.3	9.8
50°-60°	1418.2	8.5
60°-70°	1020.9	6.1
70°-80°	535.3	3.2
80°-90°	135.1	0.8
90°-100°	546.5	3.3
100°-110°	1508.6	9.0
110°-120°	1555.9	9.3
120°-130°	1250.3	7.5
130°-140°	982.6	5.9
140°-150°	753.6	4.5
150°-160°	541.6	3.2
160°-170°	331.2	2.0
170°-180°	111.7	0.7
0°-30°	2697.0	16.2
0°-40°	4346.7	26.1
0°-60°	7407.2	44.4
0°-90°	9098.6	54.5
90°-120°	3611.0	21.6
90°-150°	6597.5	39.6
90°-180°	7582.0	45.5
0°-180°	16680.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3575	3575	3575	3575	3575	
5°	3585	3545	3556	3547	3540	340
15°	3411	3368	3374	3367	3361	962
25°	3118	3066	3062	3043	3052	1434
35°	2681	2644	2643	2618	2627	1676
45°	2154	2136	2126	2120	2117	1662
55°	1597	1594	1597	1575	1572	1425
65°	1011	1042	1062	1020	986	1002
75°	466	509	536	500	454	500
85°	79	103	116	110	104	104
90°	4	7	15	17	19	8
95°	80	296	991	408	265	86
105°	269	415	1660	2534	2386	286
115°	482	582	1337	2646	3010	473
125°	661	752	1212	2051	2407	588
135°	795	881	1178	1661	1873	615
145°	922	986	1163	1414	1522	577
155°	1040	1075	1154	1269	1309	479
165°	1126	1140	1159	1204	1214	317
175°	1167	1169	1161	1178	1174	111
180°	1167	1167	1167	1167	1167	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3575.2	3575.2	3575.2	3575.2	3575.2
2.5°	3595.3	3565.7	3575.2	3567.2	3550.0
5°	3584.6	3544.6	3556.3	3546.7	3540.5
7.5°	3548.1	3511.1	3519.7	3509.6	3505.9
10°	3515.3	3478.4	3487.0	3474.2	3468.1
12.5°	3477.5	3438.1	3446.6	3434.0	3430.3
15°	3411.4	3368.2	3373.6	3367.1	3361.0
17.5°	3334.5	3290.8	3291.7	3281.6	3280.3
20°	3279.1	3232.9	3228.7	3216.2	3222.4
22.5°	3218.6	3169.9	3165.7	3148.2	3156.8
25°	3118.4	3066.1	3061.7	3043.0	3052.3
27.5°	3002.5	2950.8	2950.8	2924.6	2934.5
30°	2916.8	2867.5	2872.7	2841.5	2853.8
32.5°	2826.1	2781.8	2784.5	2753.3	2765.6
35°	2680.6	2643.6	2642.8	2617.8	2627.0
37.5°	2531.9	2499.3	2494.1	2479.7	2482.1
40°	2428.6	2400.9	2390.8	2381.3	2381.3
42.5°	2320.2	2295.0	2285.0	2278.0	2275.5
45°	2154.5	2136.1	2126.2	2119.8	2116.7
47.5°	1990.7	1973.5	1964.9	1960.4	1957.4
50°	1877.4	1865.0	1861.6	1852.1	1849.0
52.5°	1764.0	1756.6	1753.2	1741.2	1738.1
55°	1597.0	1593.9	1597.0	1574.9	1571.8
57.5°	1423.1	1428.1	1438.3	1408.5	1401.1
60°	1307.2	1319.5	1332.4	1297.5	1285.2
62.5°	1188.8	1208.5	1226.6	1186.5	1169.2
65°	1011.1	1041.9	1061.5	1019.8	985.9
67.5°	839.8	878.0	901.5	856.5	818.3
70°	721.3	764.5	790.6	745.6	702.4
72.5°	618.0	666.1	687.3	644.8	601.6
75°	466.2	509.3	535.5	499.8	453.6
77.5°	330.7	371.4	393.1	362.0	323.8
80°	242.5	285.7	302.4	276.5	245.7
82.5°	172.0	207.7	219.2	203.6	182.7
85°	78.7	103.4	116.5	110.1	103.9
87.5°	20.9	38.9	50.9	51.3	54.1
90°	3.7	7.4	14.9	16.8	18.7
92.5°	33.6	139.5	249.4	91.0	70.9
95°	80.3	295.7	991.4	407.5	265.1
97.5°	132.9	331.2	1468.6	1130.7	818.9
100°	171.8	352.5	1644.9	1656.5	1346.1
102.5°	209.1	376.7	1679.2	2046.7	1752.4
105°	268.9	414.9	1659.8	2534.0	2386.1
107.5°	332.3	462.3	1567.2	2768.9	2823.0
110°	377.1	494.0	1495.5	2819.5	2994.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	417.5	529.9	1428.3	2779.6	3038.1
115°	481.7	582.1	1336.8	2646.4	3009.7
117.5°	537.7	637.8	1276.7	2459.0	2872.3
120°	575.1	673.6	1252.8	2332.1	2748.3
122.5°	610.9	705.1	1233.4	2213.6	2607.9
125°	660.9	752.2	1211.7	2050.6	2406.6
127.5°	703.5	794.8	1199.0	1912.9	2219.9
130°	731.9	823.2	1193.0	1828.6	2107.9
132.5°	758.8	845.7	1187.1	1757.8	2010.8
135°	795.4	881.2	1178.1	1660.9	1872.7
137.5°	836.4	914.6	1173.6	1579.5	1760.3
140°	858.8	935.5	1170.6	1525.3	1684.1
142.5°	884.2	955.1	1167.7	1477.0	1616.9
145°	922.3	986.2	1163.2	1413.9	1521.6
147.5°	958.9	1014.8	1159.1	1360.7	1444.3
150°	985.8	1031.4	1157.6	1329.0	1396.6
152.5°	1006.7	1049.4	1156.1	1301.9	1357.7
155°	1039.9	1074.6	1153.8	1268.6	1308.8
157.5°	1070.6	1097.2	1154.2	1244.5	1271.8
160°	1088.5	1112.2	1155.7	1230.8	1250.9
162.5°	1103.4	1124.2	1157.2	1218.8	1234.5
165°	1125.8	1140.4	1159.4	1204.5	1213.6
167.5°	1143.0	1151.8	1161.3	1195.7	1198.6
170°	1152.0	1159.3	1161.3	1191.2	1191.2
172.5°	1159.4	1163.8	1161.3	1185.2	1183.7
175°	1166.9	1168.7	1161.3	1178.0	1174.4
177.5°	1169.9	1168.4	1160.9	1171.3	1168.4
180°	1166.9	1166.9	1166.9	1166.9	1166.9

(END OF REPORT)