

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: P564308

Luminaire Tested: **SQ4-PR1-100U-125D-830-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564308
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-100U-125D-830-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

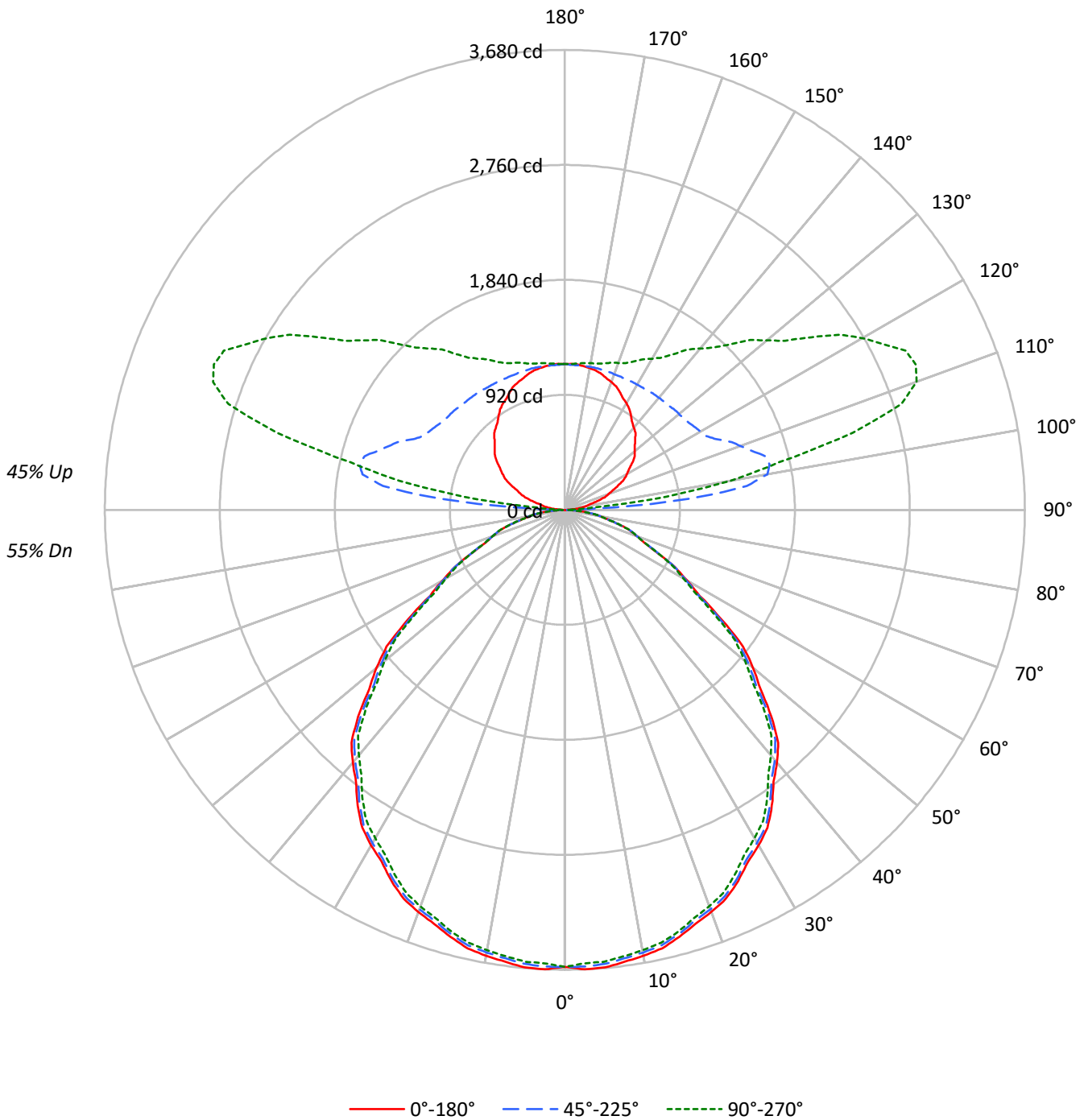
Lumens per Lamp: N/A
Luminaire Lumens: 16726.6 lumens
Efficiency: N/A
Efficacy: 119.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

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	88	92	88	85	82	76	73	71	64	63	61	54	53	52	47
2	91	83	77	72	84	78	72	68	67	63	60	57	54	52	48	46	44	40
3	83	73	66	60	77	69	62	57	59	54	50	51	47	44	43	40	38	34
4	76	65	57	51	70	61	54	49	53	47	43	45	41	38	38	35	33	29
5	70	58	50	44	65	54	47	42	47	42	37	41	36	33	35	31	29	26
6	64	52	44	38	60	49	42	37	43	37	33	37	32	29	31	28	25	23
7	60	47	39	34	55	44	37	32	39	33	29	34	29	26	29	25	23	20
8	55	43	35	30	51	40	33	29	35	30	26	31	26	23	26	23	20	18
9	51	39	32	27	48	37	30	26	33	27	23	28	24	21	24	21	18	16
10	48	36	29	24	45	34	27	23	30	25	21	26	22	19	23	19	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16870	16870	16870
5°	17022	16891	16804
10°	16968	16850	16762
15°	16894	16788	16698
20°	16809	16700	16577
25°	16691	16578	16386
30°	16510	16393	16158
35°	16267	16125	15894
40°	15896	15725	15440
45°	15248	14981	14672
50°	14106	13767	13496
55°	12313	12033	11780
60°	10375	10288	10084
65°	8974	9009	8940
70°	8242	8284	8284
75°	7915	7915	7973
80°	7446	7531	7446
85°	6002	6669	6669



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	345.8	2.1
10°-20°	989.5	5.9
20°-30°	1492.4	8.9
30°-40°	1778.2	10.6
40°-50°	1753.1	10.5
50°-60°	1339.8	8.0
60°-70°	829.1	5.0
70°-80°	470.9	2.8
80°-90°	145.7	0.9
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°	2827.7	16.9
0°-40°	4605.9	27.5
0°-60°	7698.9	46.0
0°-90°	9144.6	54.7
90°-120°	3611.0	21.6
90°-150°	6597.5	39.4
90°-180°	7582.0	45.3
0°-180°	16726.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3657	3657	3657	3657	3657	
5°	3676	3636	3648	3635	3629	349
15°	3537	3500	3515	3503	3496	998
25°	3279	3239	3257	3222	3219	1509
35°	2888	2855	2863	2825	2822	1803
45°	2337	2306	2296	2255	2249	1791
55°	1531	1506	1496	1471	1465	1372
65°	822	816	825	819	819	833
75°	444	444	444	447	447	469
85°	113	120	126	126	126	132
90°	4	7	15	17	19	10
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°	3657.0	3657.0	3657.0	3657.0	3657.0
2.5°	3679.7	3647.7	3657.0	3649.1	3631.8
5°	3675.9	3635.9	3647.6	3634.9	3628.7
7.5°	3647.6	3608.2	3619.9	3607.2	3603.5
10°	3622.4	3585.4	3597.2	3584.5	3578.3
12.5°	3594.7	3555.3	3569.5	3554.2	3548.1
15°	3537.3	3500.4	3515.3	3502.6	3496.4
17.5°	3474.3	3434.9	3449.8	3435.1	3427.1
20°	3424.0	3387.0	3401.9	3379.8	3376.7
22.5°	3368.5	3331.6	3346.5	3316.8	3316.2
25°	3279.1	3239.0	3257.0	3222.3	3219.2
27.5°	3172.6	3135.6	3150.5	3115.2	3111.5
30°	3099.5	3062.6	3077.5	3039.5	3033.4
32.5°	3016.4	2981.9	2994.3	2956.4	2952.7
35°	2888.5	2854.6	2863.3	2825.4	2822.3
37.5°	2742.9	2712.1	2717.1	2675.5	2672.4
40°	2639.6	2608.8	2611.3	2567.1	2564.0
42.5°	2526.2	2495.4	2492.8	2448.7	2445.6
45°	2337.2	2306.4	2296.3	2255.2	2249.0
47.5°	2121.8	2091.0	2072.0	2038.5	2034.2
50°	1965.5	1934.7	1918.3	1889.7	1880.5
52.5°	1796.7	1765.9	1752.0	1725.9	1716.7
55°	1530.9	1506.2	1496.2	1470.9	1464.7
57.5°	1278.2	1261.6	1258.7	1234.1	1231.6
60°	1124.5	1115.3	1115.1	1093.0	1093.0
62.5°	993.5	986.7	991.6	977.0	974.6
65°	822.1	816.0	825.3	819.0	819.0
67.5°	686.7	686.7	692.4	689.8	689.8
70°	611.1	611.1	614.2	614.2	614.2
72.5°	543.0	540.6	548.7	548.7	546.2
75°	444.1	444.1	444.1	447.3	447.3
77.5°	345.9	346.5	349.0	348.3	345.9
80°	280.3	283.4	283.5	280.3	280.3
82.5°	214.8	217.9	218.0	217.3	214.8
85°	113.4	119.6	126.0	126.0	126.0
87.5°	33.5	44.1	53.4	53.7	51.6
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)