

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: P564312

Luminaire Tested: **SQ4-PR1-100U-125D-835-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564312
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-835-1D-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: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

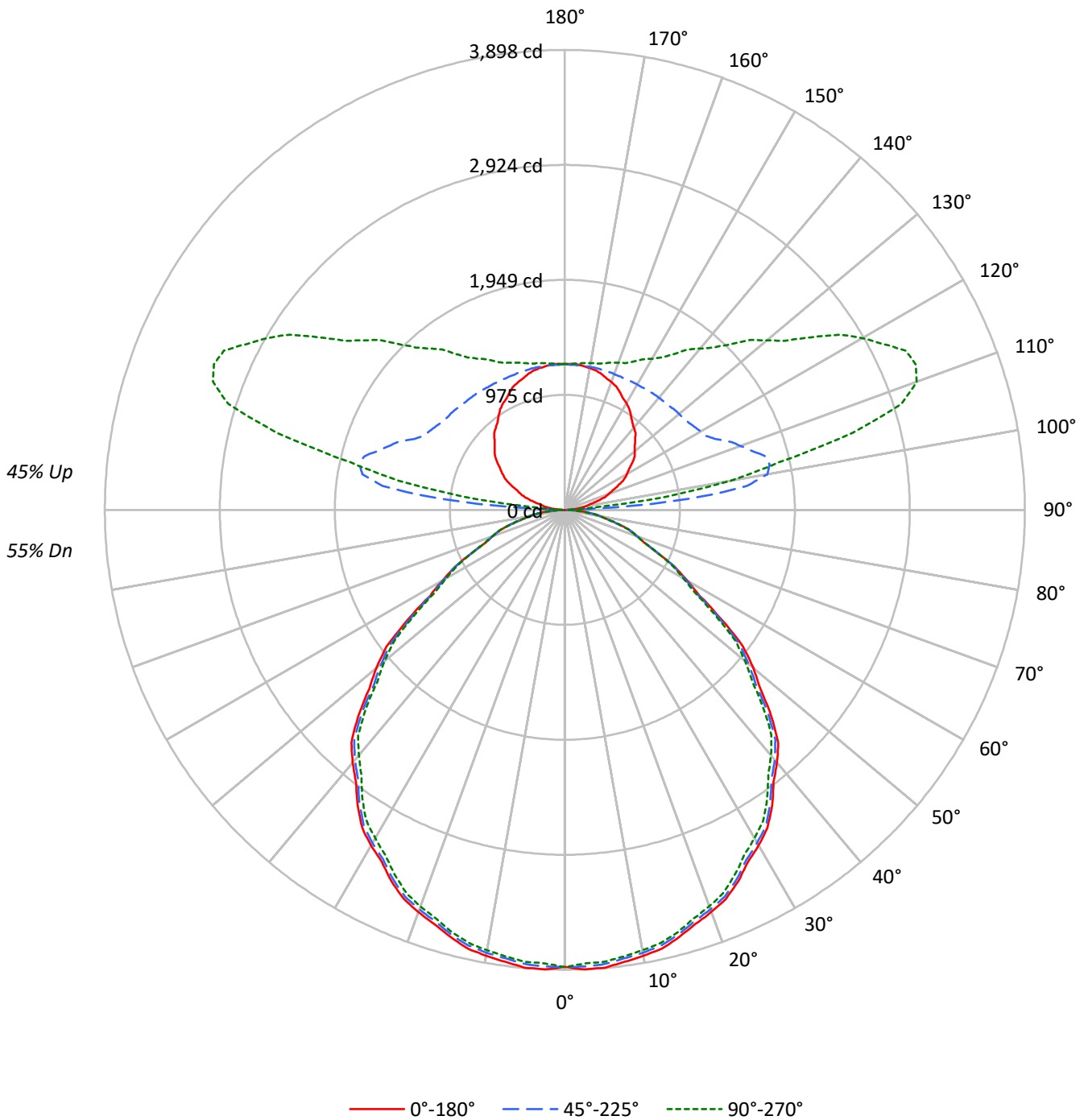
Lumens per Lamp: N/A
Luminaire Lumens: 17720.8 lumens
Efficiency: N/A
Efficacy: 126.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

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°	17873	17873	17873
5°	18034	17895	17802
10°	17977	17852	17758
15°	17898	17787	17691
20°	17808	17693	17562
25°	17683	17564	17360
30°	17492	17367	17119
35°	17234	17083	16839
40°	16840	16660	16358
45°	16155	15871	15545
50°	14945	14585	14298
55°	13044	12748	12481
60°	10992	10900	10684
65°	9507	9543	9471
70°	8732	8777	8777
75°	8386	8386	8447
80°	7890	7978	7890
85°	6357	7066	7066



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	366.4	2.1
10°-20°	1048.3	5.9
20°-30°	1581.1	8.9
30°-40°	1883.9	10.6
40°-50°	1857.4	10.5
50°-60°	1419.5	8.0
60°-70°	878.4	5.0
70°-80°	498.9	2.8
80°-90°	154.3	0.9
90°-100°	579.0	3.3
100°-110°	1598.3	9.0
110°-120°	1648.4	9.3
120°-130°	1324.6	7.5
130°-140°	1041.0	5.9
140°-150°	798.4	4.5
150°-160°	573.8	3.2
160°-170°	350.9	2.0
170°-180°	118.3	0.7
0°-30°	2995.8	16.9
0°-40°	4879.7	27.5
0°-60°	8156.5	46.0
0°-90°	9688.2	54.7
90°-120°	3825.6	21.6
90°-150°	6989.6	39.4
90°-180°	8033.0	45.3
0°-180°	17720.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3874	3874	3874	3874	3874	
5°	3894	3852	3864	3851	3844	369
15°	3748	3708	3724	3711	3704	1058
25°	3474	3432	3451	3414	3411	1599
35°	3060	3024	3034	2993	2990	1910
45°	2476	2444	2433	2389	2383	1897
55°	1622	1596	1585	1558	1552	1453
65°	871	864	874	868	868	882
75°	470	470	470	474	474	497
85°	120	127	134	134	134	140
90°	4	8	16	18	20	11
95°	85	313	1050	432	281	91
105°	285	440	1758	2685	2528	303
115°	510	617	1416	2804	3189	501
125°	700	797	1284	2172	2550	623
135°	843	934	1248	1760	1984	652
145°	977	1045	1232	1498	1612	612
155°	1102	1138	1222	1344	1387	508
165°	1193	1208	1228	1276	1286	336
175°	1236	1238	1230	1248	1244	117
180°	1236	1236	1236	1236	1236	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3874.4	3874.4	3874.4	3874.4	3874.4
2.5°	3898.5	3864.5	3874.4	3866.0	3847.7
5°	3894.5	3852.0	3864.4	3850.9	3844.4
7.5°	3864.4	3822.7	3835.1	3821.6	3817.7
10°	3837.7	3798.6	3811.0	3797.5	3791.0
12.5°	3808.4	3766.6	3781.7	3765.5	3759.0
15°	3747.6	3708.5	3724.3	3710.8	3704.2
17.5°	3680.9	3639.1	3654.8	3639.3	3630.8
20°	3627.5	3588.3	3604.1	3580.7	3577.4
22.5°	3568.7	3529.6	3545.4	3514.0	3513.4
25°	3474.0	3431.6	3450.6	3413.8	3410.6
27.5°	3361.2	3322.0	3337.8	3300.4	3296.4
30°	3283.8	3244.6	3260.4	3220.2	3213.7
32.5°	3195.7	3159.1	3172.3	3132.2	3128.2
35°	3060.2	3024.3	3033.5	2993.3	2990.1
37.5°	2906.0	2873.4	2878.6	2834.5	2831.2
40°	2796.5	2763.9	2766.5	2719.7	2716.4
42.5°	2676.4	2643.8	2641.0	2594.2	2591.0
45°	2476.2	2443.5	2432.8	2389.3	2382.7
47.5°	2247.9	2215.3	2195.2	2159.7	2155.1
50°	2082.4	2049.8	2032.3	2002.1	1992.3
52.5°	1903.5	1870.9	1856.1	1828.5	1818.7
55°	1621.9	1595.8	1585.1	1558.3	1551.8
57.5°	1354.2	1336.6	1333.5	1307.4	1304.8
60°	1191.4	1181.6	1181.4	1158.0	1158.0
62.5°	1052.5	1045.4	1050.5	1035.1	1032.5
65°	871.0	864.5	874.3	867.7	867.7
67.5°	727.5	727.5	733.5	730.8	730.8
70°	647.4	647.4	650.7	650.7	650.7
72.5°	575.3	572.7	581.3	581.3	578.7
75°	470.5	470.5	470.5	473.9	473.9
77.5°	366.4	367.1	369.8	369.0	366.4
80°	297.0	300.3	300.3	297.0	297.0
82.5°	227.6	230.9	230.9	230.2	227.6
85°	120.1	126.7	133.5	133.5	133.5
87.5°	35.5	46.7	56.6	56.9	54.7
90°	4.0	7.8	15.8	17.8	19.8
92.5°	35.6	147.8	264.3	96.4	75.2
95°	85.1	313.3	1050.3	431.7	280.9
97.5°	140.8	350.9	1555.9	1197.9	867.6
100°	182.0	373.5	1742.6	1755.0	1426.2
102.5°	221.5	399.1	1779.0	2168.4	1856.6
105°	284.8	439.6	1758.5	2684.6	2527.9
107.5°	352.1	489.8	1660.4	2933.5	2990.8
110°	399.6	523.3	1584.4	2987.1	3172.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	442.3	561.4	1513.2	2944.8	3218.7
115°	510.3	616.7	1416.3	2803.7	3188.6
117.5°	569.7	675.7	1352.6	2605.1	3043.0
120°	609.2	713.7	1327.3	2470.7	2911.7
122.5°	647.2	747.0	1306.7	2345.2	2762.9
125°	700.2	796.9	1283.7	2172.5	2549.7
127.5°	745.3	842.0	1270.3	2026.6	2351.9
130°	775.4	872.1	1264.0	1937.3	2233.2
132.5°	803.9	895.9	1257.6	1862.3	2130.3
135°	842.6	933.5	1248.1	1759.6	1984.0
137.5°	886.2	968.9	1243.4	1673.4	1864.9
140°	909.9	991.1	1240.2	1615.9	1784.2
142.5°	936.8	1011.8	1237.1	1564.8	1713.0
145°	977.1	1044.8	1232.3	1498.0	1612.1
147.5°	1015.9	1075.1	1228.0	1441.6	1530.2
150°	1044.4	1092.8	1226.4	1408.0	1479.6
152.5°	1066.6	1111.8	1224.8	1379.2	1438.4
155°	1101.8	1138.5	1222.4	1344.1	1386.6
157.5°	1134.2	1162.4	1222.8	1318.4	1347.4
160°	1153.2	1178.3	1224.4	1304.0	1325.3
162.5°	1169.0	1191.1	1226.0	1291.2	1307.9
165°	1192.8	1208.2	1228.4	1276.1	1285.7
167.5°	1211.0	1220.2	1230.3	1266.8	1269.9
170°	1220.4	1228.2	1230.3	1262.0	1262.0
172.5°	1228.4	1233.0	1230.3	1255.6	1254.1
175°	1236.3	1238.2	1230.3	1248.1	1244.2
177.5°	1239.4	1237.9	1229.9	1240.9	1237.9
180°	1236.3	1236.3	1236.3	1236.3	1236.3

(END OF REPORT)