

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: P563640

Luminaire Tested: **SQ4-PP3-100U-125D-835-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563640  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, G2-2103-172-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PP3-100U-125D-835-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

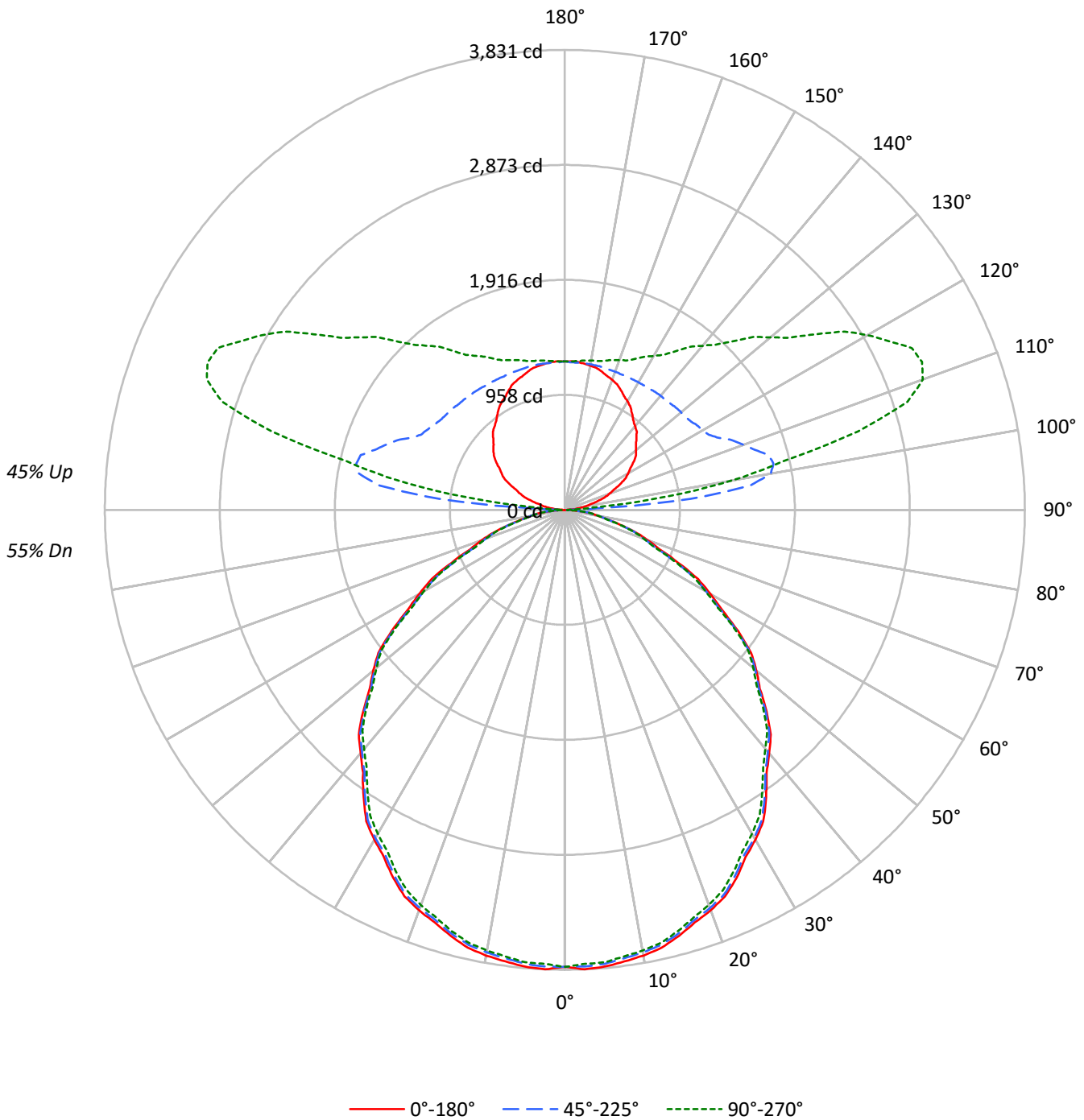
Lumens per Lamp: N/A  
Luminaire Lumens: 17778.5 lumens  
Efficiency: N/A  
Efficacy: 126.4 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: General Diffuse

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	101	101	101	101	86	86	86	73	73	73	61	61	61	55
1	99	95	91	88	92	88	85	82	76	73	71	64	63	61	54	53	52	47
2	90	83	77	72	84	77	72	68	67	63	59	57	54	51	48	46	44	39
3	83	73	66	60	76	68	62	57	59	54	50	50	47	44	42	40	37	34
4	76	65	57	51	70	61	54	48	52	47	43	45	41	37	38	35	32	29
5	69	58	50	44	64	54	47	41	47	41	37	40	36	33	34	31	28	25
6	64	52	44	38	59	49	41	36	42	37	32	37	32	29	31	28	25	22
7	59	47	39	33	55	44	37	32	38	33	28	33	29	25	28	25	22	20
8	55	43	35	29	51	40	33	28	35	29	25	30	26	23	26	22	20	18
9	51	39	31	26	48	37	30	25	32	27	23	28	23	20	24	21	18	16
10	48	36	28	24	44	34	27	23	30	24	20	26	21	18	22	19	16	14

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	17561	17561	17561
5°	17690	17582	17520
10°	17660	17535	17457
15°	17543	17448	17352
20°	17427	17329	17198
25°	17220	17101	16931
30°	16901	16812	16599
35°	16459	16346	16139
40°	15932	15832	15651
45°	15498	15389	15237
50°	14941	14845	14701
55°	14168	13980	13873
60°	12897	12528	12466
65°	11362	10889	10852
70°	9810	9405	9405
75°	8445	8325	8206
80°	7446	7534	7356
85°	5828	6357	6357



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	360.0	2.0
10°-20°	1027.8	5.8
20°-30°	1539.5	8.7
30°-40°	1805.8	10.2
40°-50°	1811.5	10.2
50°-60°	1545.3	8.7
60°-70°	1007.8	5.7
70°-80°	505.6	2.8
80°-90°	142.5	0.8
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°	2927.3	16.5
0°-40°	4733.2	26.6
0°-60°	8089.9	45.5
0°-90°	9745.8	54.8
90°-120°	3825.6	21.5
90°-150°	6989.6	39.3
90°-180°	8033.0	45.2
0°-180°	17778.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3807	3807	3807	3807	3807	
5°	3820	3784	3797	3783	3783	363
15°	3673	3638	3653	3640	3633	1036
25°	3383	3344	3360	3330	3326	1556
35°	2923	2893	2903	2869	2866	1826
45°	2376	2359	2359	2336	2336	1829
55°	1762	1755	1738	1728	1725	1566
65°	1041	1021	998	991	994	1039
75°	474	474	467	464	460	514
85°	110	120	120	120	120	129
90°	4	8	16	18	20	10
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°	3806.8	3806.8	3806.8	3806.8	3806.8
2.5°	3830.8	3799.5	3806.8	3801.1	3785.4
5°	3820.1	3784.3	3796.8	3783.4	3783.4
7.5°	3794.1	3755.0	3767.4	3754.1	3753.4
10°	3770.1	3730.9	3743.4	3730.0	3726.7
12.5°	3735.4	3696.2	3711.4	3695.3	3694.7
15°	3673.3	3637.5	3653.3	3639.8	3633.3
17.5°	3603.3	3564.1	3583.3	3564.5	3561.9
20°	3549.9	3510.7	3529.9	3503.2	3503.2
22.5°	3485.8	3446.7	3468.5	3433.8	3433.8
25°	3383.1	3343.9	3359.7	3329.6	3326.4
27.5°	3261.0	3222.5	3238.9	3204.9	3204.2
30°	3172.9	3137.0	3156.2	3119.4	3116.2
32.5°	3076.8	3043.5	3057.4	3020.7	3017.4
35°	2922.7	2893.3	2902.6	2869.2	2865.9
37.5°	2760.5	2730.5	2741.2	2712.4	2711.1
40°	2645.7	2626.2	2629.1	2605.6	2599.0
42.5°	2539.0	2516.8	2519.6	2496.2	2494.9
45°	2375.5	2359.2	2358.8	2335.5	2335.5
47.5°	2202.0	2189.6	2186.0	2166.6	2166.0
50°	2081.9	2072.1	2068.5	2051.8	2048.5
52.5°	1956.4	1951.9	1940.4	1926.4	1925.8
55°	1761.6	1755.1	1738.2	1728.2	1724.9
57.5°	1550.1	1537.0	1518.0	1503.4	1506.0
60°	1397.9	1384.9	1357.9	1351.2	1351.2
62.5°	1251.1	1235.5	1208.4	1199.2	1204.4
65°	1040.9	1021.4	997.6	991.0	994.2
67.5°	850.1	832.5	806.7	806.7	804.1
70°	727.3	717.5	697.3	697.3	697.3
72.5°	617.9	613.3	598.5	598.5	595.9
75°	473.8	473.8	467.1	463.7	460.4
77.5°	355.0	356.3	353.0	349.5	343.6
80°	280.3	286.8	283.6	280.2	276.9
82.5°	210.9	217.4	216.9	210.8	210.2
85°	110.1	119.9	120.1	120.1	120.1
87.5°	30.2	41.4	45.9	46.3	49.3
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)