

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: P563706

Luminaire Tested: **SQ4-PP3-125U-100D-830-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563706  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, 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-PP3-125U-100D-830-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

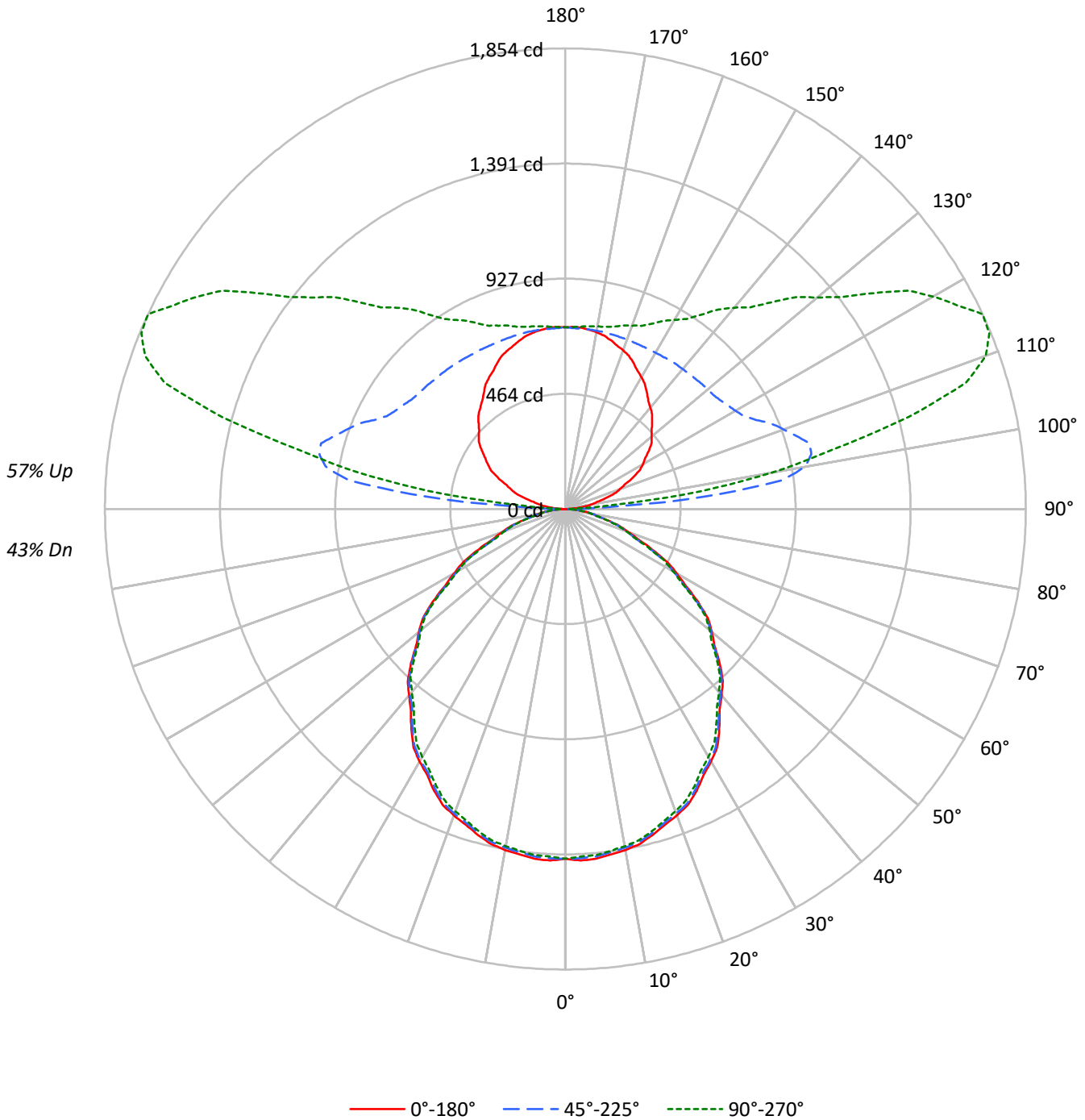
Lumens per Lamp: N/A  
Luminaire Lumens: 8323.8 lumens  
Efficiency: N/A  
Efficacy: 129.1 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 64.5  
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	106	106	106	106	97	97	97	97	80	80	80	64	64	64	50	50	50	43
1	96	92	88	85	88	85	81	78	70	68	66	57	55	54	44	43	43	37
2	88	81	75	70	80	74	69	65	62	58	55	50	47	45	39	38	36	31
3	80	71	64	58	73	65	59	54	54	50	46	44	41	38	35	33	31	26
4	73	63	55	49	67	58	51	46	48	43	39	39	36	33	31	29	27	23
5	67	56	48	42	61	52	45	39	43	38	34	35	32	28	28	25	23	20
6	62	50	42	37	57	46	39	34	39	34	30	32	28	25	26	23	20	17
7	57	45	37	32	52	42	35	30	35	30	26	29	25	22	23	20	18	15
8	53	41	33	28	49	38	31	26	32	27	23	27	23	20	21	18	16	14
9	49	37	30	25	45	35	28	24	29	24	21	24	20	18	20	17	15	12
10	46	34	27	22	42	32	25	21	27	22	18	23	19	16	18	15	13	11

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

	0°	45°	90°
0°	12989	12989	12989
5°	13085	13004	12959
10°	13063	12970	12912
15°	12976	12905	12835
20°	12889	12817	12721
25°	12736	12649	12523
30°	12501	12435	12277
35°	12174	12091	11938
40°	11785	11710	11577
45°	11463	11382	11269
50°	11051	10980	10874
55°	10480	10340	10261
60°	9540	9267	9221
65°	8405	8053	8027
70°	7256	6957	6957
75°	6245	6156	6071
80°	5504	5574	5441
85°	4308	4700	4700



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	133.1	1.6
10°-20°	380.1	4.6
20°-30°	569.4	6.8
30°-40°	667.8	8.0
40°-50°	669.9	8.0
50°-60°	571.5	6.9
60°-70°	372.7	4.5
70°-80°	187.0	2.2
80°-90°	53.5	0.6
90°-100°	342.0	4.1
100°-110°	921.1	11.1
110°-120°	966.7	11.6
120°-130°	784.4	9.4
130°-140°	615.2	7.4
140°-150°	472.3	5.7
150°-160°	339.6	4.1
160°-170°	207.5	2.5
170°-180°	70.0	0.8
0°-30°	1082.6	13.0
0°-40°	1750.4	21.0
0°-60°	2991.8	35.9
0°-90°	3605.0	43.3
90°-120°	2229.8	26.8
90°-150°	4101.8	49.3
90°-180°	4719.0	56.7
0°-180°	8323.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1408	1408	1408	1408	1408	
5°	1413	1400	1404	1399	1399	134
15°	1358	1345	1351	1346	1344	383
25°	1251	1237	1242	1231	1230	575
35°	1081	1070	1074	1061	1060	675
45°	878	872	872	864	864	676
55°	652	649	643	639	638	579
65°	385	378	369	366	368	384
75°	175	175	173	172	170	190
85°	41	44	44	44	44	48
90°	2	6	11	12	12	5
95°	52	186	561	287	198	54
105°	170	265	1019	1524	1430	179
115°	301	368	848	1639	1854	296
125°	411	472	762	1287	1515	367
135°	494	552	740	1039	1176	382
145°	572	616	731	888	954	359
155°	649	673	724	797	822	299
165°	704	712	727	756	760	199
175°	732	731	728	738	737	70
180°	731	731	731	731	731	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1407.8	1407.8	1407.8	1407.8	1407.8
2.5°	1416.7	1405.1	1407.8	1405.7	1400.0
5°	1412.8	1399.5	1404.1	1399.2	1399.2
7.5°	1403.2	1388.7	1393.3	1388.3	1388.1
10°	1394.3	1379.8	1384.4	1379.4	1378.2
12.5°	1381.4	1367.0	1372.6	1366.6	1366.4
15°	1358.5	1345.2	1351.1	1346.1	1343.7
17.5°	1332.6	1318.1	1325.2	1318.2	1317.3
20°	1312.8	1298.4	1305.4	1295.6	1295.6
22.5°	1289.1	1274.7	1282.7	1269.9	1269.9
25°	1251.1	1236.7	1242.5	1231.4	1230.2
27.5°	1206.0	1191.7	1197.8	1185.3	1185.0
30°	1173.4	1160.1	1167.2	1153.6	1152.4
32.5°	1137.9	1125.6	1130.7	1117.1	1115.9
35°	1080.9	1070.0	1073.5	1061.1	1059.9
37.5°	1020.9	1009.8	1013.7	1003.1	1002.6
40°	978.5	971.2	972.3	963.6	961.2
42.5°	939.0	930.8	931.8	923.2	922.7
45°	878.5	872.5	872.3	863.7	863.7
47.5°	814.4	809.8	808.4	801.3	801.0
50°	769.9	766.3	765.0	758.8	757.6
52.5°	723.5	721.9	717.6	712.4	712.2
55°	651.5	649.1	642.8	639.1	637.9
57.5°	573.3	568.4	561.4	556.0	557.0
60°	517.0	512.2	502.2	499.7	499.7
62.5°	462.7	456.9	446.9	443.5	445.4
65°	385.0	377.7	368.9	366.5	367.7
67.5°	314.4	307.9	298.4	298.3	297.4
70°	269.0	265.4	257.9	257.9	257.9
72.5°	228.5	226.8	221.4	221.3	220.4
75°	175.2	175.2	172.7	171.5	170.3
77.5°	131.3	131.8	130.5	129.3	127.1
80°	103.6	106.1	104.9	103.6	102.4
82.5°	78.0	80.4	80.2	78.0	77.7
85°	40.7	44.3	44.4	44.4	44.4
87.5°	11.2	15.8	18.0	18.2	19.2
90°	1.9	5.5	11.2	12.1	12.1
92.5°	22.7	80.3	158.7	76.4	53.1
95°	52.1	186.0	560.6	286.7	198.3
97.5°	83.2	212.9	879.2	734.5	553.9
100°	107.1	223.6	980.5	1025.9	851.1
102.5°	130.2	238.7	1014.0	1244.1	1100.6
105°	170.4	265.1	1018.7	1524.1	1430.3
107.5°	208.4	292.9	975.3	1667.9	1692.1
110°	233.7	313.8	935.8	1712.6	1800.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	260.5	334.8	897.8	1702.7	1847.8
115°	300.8	368.1	848.3	1639.1	1854.0
117.5°	337.5	400.6	809.9	1537.6	1776.9
120°	361.3	422.3	790.6	1464.7	1710.6
122.5°	382.2	442.4	776.4	1390.2	1635.3
125°	410.6	471.6	761.7	1287.4	1515.0
127.5°	438.0	498.1	752.4	1196.7	1399.9
130°	454.4	514.5	748.7	1144.7	1323.2
132.5°	470.8	530.2	744.9	1099.0	1262.9
135°	494.5	551.8	740.3	1038.6	1176.1
137.5°	517.0	572.0	737.9	987.4	1100.3
140°	532.6	585.4	735.6	955.8	1057.8
142.5°	549.0	598.2	734.1	926.4	1012.4
145°	571.7	616.4	731.0	888.0	953.5
147.5°	596.3	635.1	727.8	855.6	907.1
150°	612.7	646.4	726.3	835.3	878.1
152.5°	627.6	656.9	725.6	818.7	853.5
155°	649.0	672.7	724.4	796.7	822.2
157.5°	667.8	686.2	724.6	781.3	798.4
160°	679.8	695.2	725.4	772.2	785.0
162.5°	690.2	702.7	726.1	764.7	773.8
165°	704.0	712.2	727.2	756.2	759.8
167.5°	715.1	719.9	728.2	749.6	751.1
170°	722.6	724.4	728.2	745.9	745.9
172.5°	727.1	727.4	728.9	742.1	742.1
175°	731.9	731.0	728.2	738.4	736.6
177.5°	733.9	732.5	728.7	734.7	733.2
180°	731.0	731.0	731.0	731.0	731.0

(END OF REPORT)