

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: P563718

Luminaire Tested: **SQ4-PP3-125U-100D-930-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563718  
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-930-1D-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, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

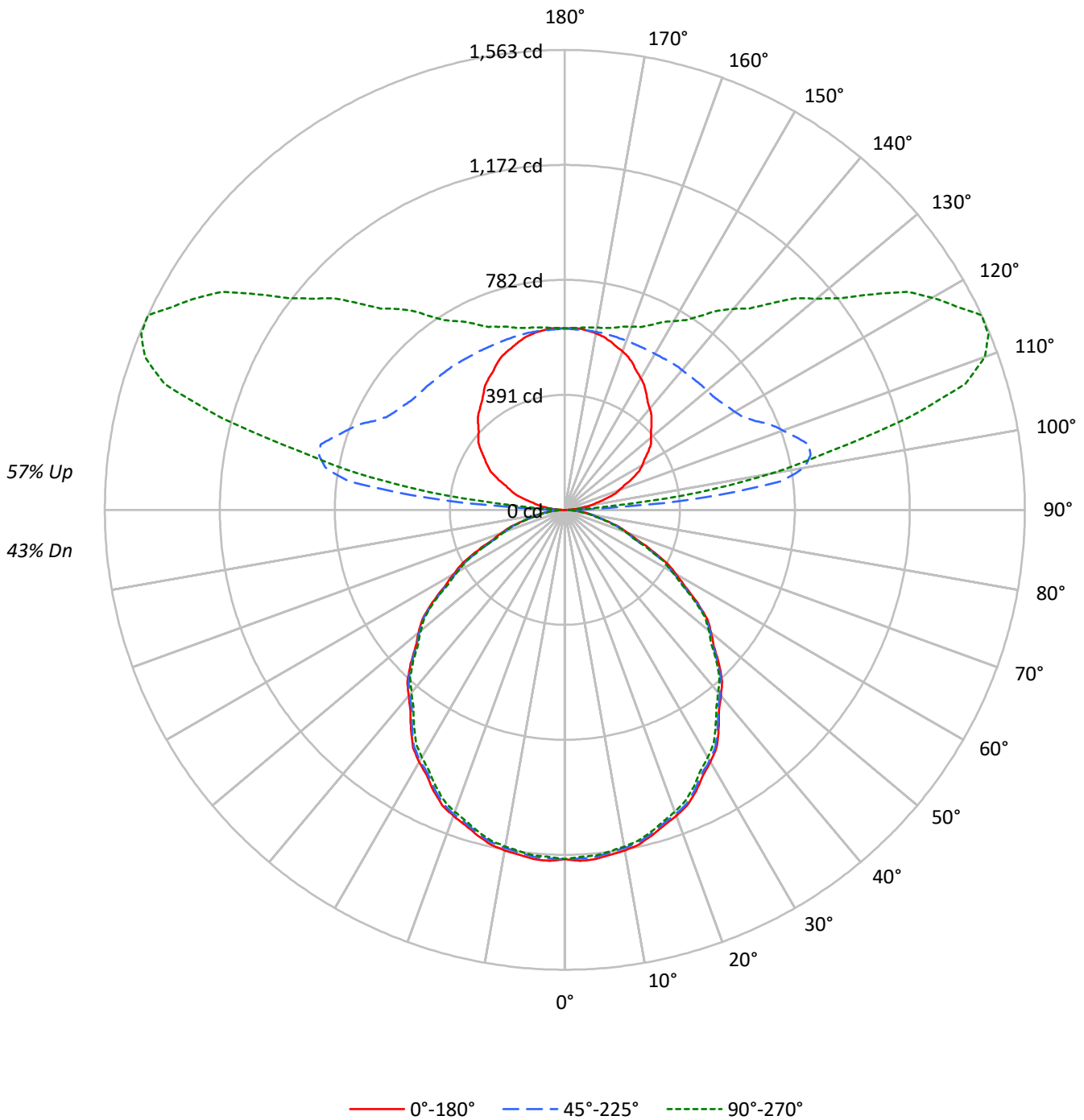
Lumens per Lamp: N/A  
Luminaire Lumens: 7017.5 lumens  
Efficiency: N/A  
Efficacy: 108.8 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

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°	10951	10951	10951
5°	11031	10964	10925
10°	11013	10934	10885
15°	10940	10879	10820
20°	10867	10806	10724
25°	10738	10664	10558
30°	10540	10484	10351
35°	10263	10193	10065
40°	9935	9872	9759
45°	9663	9595	9501
50°	9317	9257	9168
55°	8834	8718	8651
60°	8043	7813	7774
65°	7084	6789	6768
70°	6118	5864	5864
75°	5265	5190	5119
80°	4644	4697	4585
85°	3631	3959	3959



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	112.2	1.6
10°-20°	320.5	4.6
20°-30°	480.0	6.8
30°-40°	563.0	8.0
40°-50°	564.8	8.0
50°-60°	481.8	6.9
60°-70°	314.2	4.5
70°-80°	157.6	2.2
80°-90°	45.1	0.6
90°-100°	288.3	4.1
100°-110°	776.6	11.1
110°-120°	815.0	11.6
120°-130°	661.3	9.4
130°-140°	518.7	7.4
140°-150°	398.2	5.7
150°-160°	286.3	4.1
160°-170°	174.9	2.5
170°-180°	59.0	0.8
0°-30°	912.7	13.0
0°-40°	1475.7	21.0
0°-60°	2522.3	35.9
0°-90°	3039.2	43.3
90°-120°	1879.8	26.8
90°-150°	3458.0	49.3
90°-180°	3978.0	56.7
0°-180°	7017.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1187	1187	1187	1187	1187	
5°	1191	1180	1184	1180	1180	113
15°	1145	1134	1139	1135	1133	323
25°	1055	1043	1048	1038	1037	485
35°	911	902	905	895	894	569
45°	741	736	735	728	728	570
55°	549	547	542	539	538	488
65°	324	318	311	309	310	324
75°	148	148	146	145	144	160
85°	34	37	37	37	37	40
90°	2	5	9	10	10	4
95°	44	157	473	242	167	46
105°	144	224	859	1285	1206	151
115°	254	310	715	1382	1563	250
125°	346	398	642	1085	1277	309
135°	417	465	624	876	992	322
145°	482	520	616	749	804	302
155°	547	567	611	672	693	252
165°	594	600	613	638	641	167
175°	617	616	614	622	621	59
180°	616	616	616	616	616	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1186.9	1186.9	1186.9	1186.9	1186.9
2.5°	1194.4	1184.6	1186.9	1185.1	1180.2
5°	1191.1	1179.9	1183.8	1179.6	1179.6
7.5°	1182.9	1170.7	1174.6	1170.5	1170.3
10°	1175.5	1163.2	1167.1	1162.9	1161.9
12.5°	1164.6	1152.4	1157.1	1152.1	1151.9
15°	1145.3	1134.1	1139.0	1134.8	1132.8
17.5°	1123.4	1111.2	1117.2	1111.4	1110.5
20°	1106.8	1094.6	1100.6	1092.2	1092.2
22.5°	1086.8	1074.6	1081.4	1070.6	1070.6
25°	1054.8	1042.6	1047.5	1038.1	1037.1
27.5°	1016.7	1004.7	1009.8	999.2	999.0
30°	989.3	978.1	984.1	972.6	971.6
32.5°	959.3	948.9	953.3	941.8	940.8
35°	911.2	902.1	905.0	894.6	893.6
37.5°	860.7	851.3	854.6	845.7	845.3
40°	824.9	818.8	819.7	812.4	810.3
42.5°	791.6	784.7	785.6	778.3	777.9
45°	740.6	735.6	735.4	728.2	728.2
47.5°	686.5	682.7	681.6	675.5	675.3
50°	649.1	646.0	644.9	639.7	638.7
52.5°	610.0	608.6	605.0	600.6	600.4
55°	549.2	547.2	542.0	538.8	537.8
57.5°	483.3	479.2	473.3	468.7	469.6
60°	435.9	431.8	423.4	421.3	421.3
62.5°	390.1	385.2	376.8	373.9	375.5
65°	324.5	318.4	311.0	309.0	310.0
67.5°	265.0	259.6	251.5	251.5	250.7
70°	226.8	223.7	217.4	217.4	217.4
72.5°	192.6	191.2	186.6	186.6	185.8
75°	147.7	147.7	145.6	144.6	143.6
77.5°	110.7	111.1	110.1	109.0	107.1
80°	87.4	89.4	88.4	87.4	86.3
82.5°	65.7	67.8	67.6	65.7	65.5
85°	34.3	37.4	37.4	37.4	37.4
87.5°	9.5	13.3	15.2	15.4	16.2
90°	1.6	4.6	9.4	10.2	10.2
92.5°	19.2	67.7	133.8	64.4	44.7
95°	44.0	156.8	472.6	241.7	167.2
97.5°	70.2	179.5	741.2	619.2	466.9
100°	90.3	188.5	826.6	864.9	717.5
102.5°	109.7	201.2	854.9	1048.9	927.9
105°	143.7	223.5	858.8	1284.9	1205.8
107.5°	175.7	246.9	822.2	1406.1	1426.6
110°	197.0	264.6	789.0	1443.8	1518.2

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	219.7	282.3	756.9	1435.5	1557.8
115°	253.6	310.4	715.2	1381.8	1563.0
117.5°	284.5	337.8	682.8	1296.3	1498.0
120°	304.6	356.0	666.5	1234.8	1442.1
122.5°	322.2	373.0	654.6	1172.0	1378.7
125°	346.2	397.6	642.2	1085.3	1277.2
127.5°	369.3	419.9	634.3	1008.9	1180.2
130°	383.1	433.8	631.2	965.1	1115.5
132.5°	396.9	447.0	628.0	926.5	1064.7
135°	416.9	465.2	624.1	875.6	991.5
137.5°	435.8	482.2	622.1	832.4	927.6
140°	449.0	493.6	620.2	805.8	891.8
142.5°	462.9	504.3	618.9	781.0	853.5
145°	482.0	519.6	616.2	748.6	803.9
147.5°	502.7	535.4	613.6	721.3	764.8
150°	516.5	544.9	612.3	704.2	740.3
152.5°	529.1	553.8	611.7	690.2	719.6
155°	547.2	567.1	610.8	671.7	693.2
157.5°	563.0	578.5	610.9	658.7	673.1
160°	573.1	586.1	611.5	651.0	661.8
162.5°	581.9	592.5	612.2	644.7	652.4
165°	593.5	600.4	613.1	637.5	640.6
167.5°	602.9	606.9	613.9	632.0	633.2
170°	609.2	610.7	613.9	628.8	628.8
172.5°	613.0	613.3	614.5	625.7	625.7
175°	617.0	616.3	613.9	622.5	621.0
177.5°	618.8	617.5	614.4	619.4	618.1
180°	616.2	616.2	616.2	616.2	616.2

(END OF REPORT)