

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: P564342

Luminaire Tested: **SQ4-PR1-125U-050D-930-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564342  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, 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-PR1-125U-050D-930-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

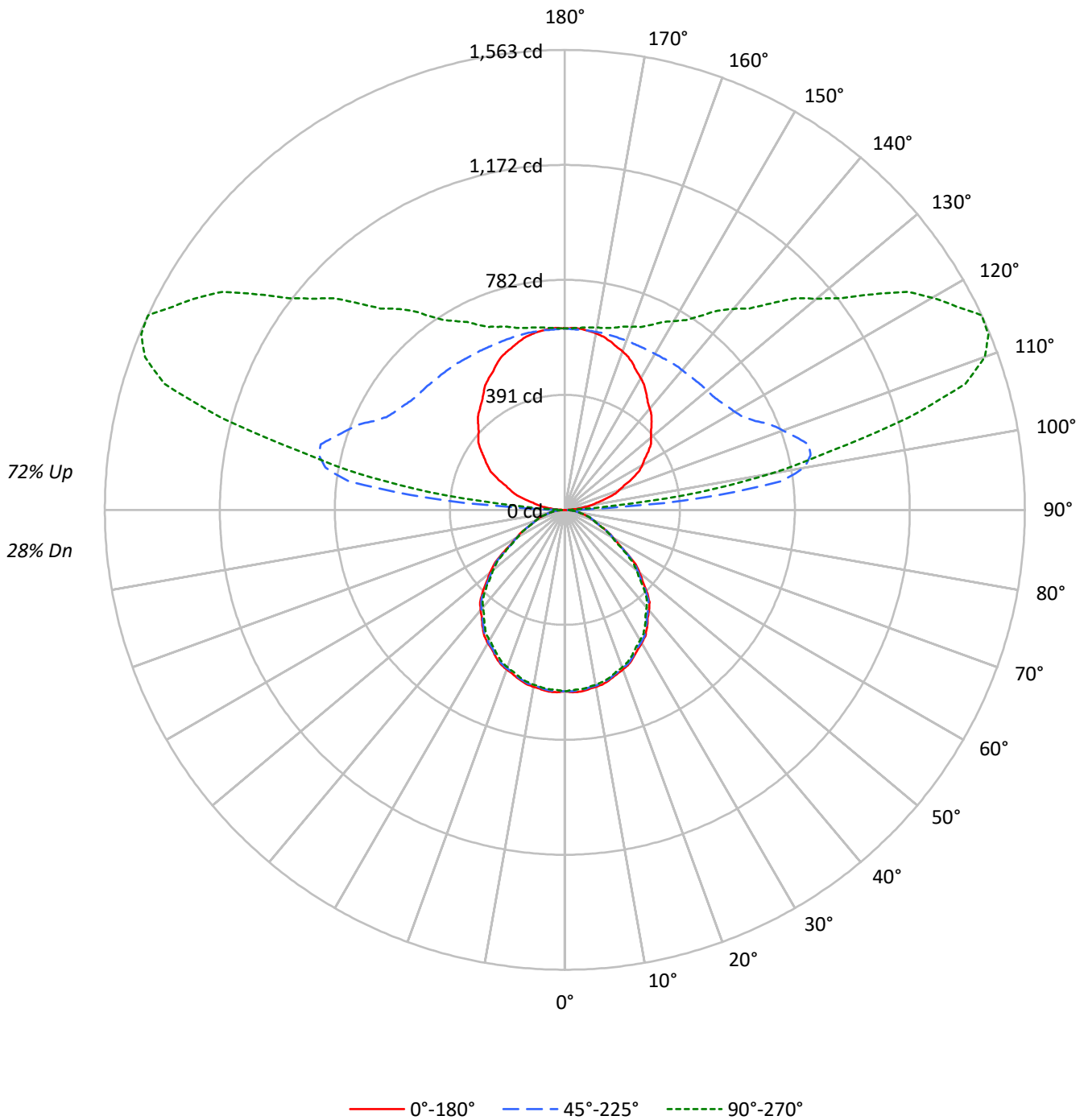
Lumens per Lamp: N/A  
Luminaire Lumens: 5521.7 lumens  
Efficiency: N/A  
Efficacy: 115.3 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 47.9  
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	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36	28
1	93	89	85	82	83	80	77	74	62	60	58	47	45	44	32	31	31	24
2	85	78	72	67	76	70	65	61	55	51	49	41	39	37	28	27	26	20
3	77	68	61	56	69	61	56	51	48	44	41	36	34	31	25	24	22	17
4	71	61	53	47	63	54	48	43	43	39	35	32	29	27	23	21	19	15
5	65	54	46	40	58	48	42	37	38	34	30	29	26	23	20	18	17	13
6	60	48	40	35	53	43	37	32	35	30	26	26	23	20	18	16	15	12
7	55	43	36	30	49	39	33	28	31	26	23	24	20	18	17	15	13	10
8	51	39	32	27	46	35	29	25	28	24	20	22	18	16	15	13	12	9
9	47	36	29	24	42	32	26	22	26	21	18	20	17	14	14	12	11	8
10	44	33	26	21	40	30	23	19	24	19	16	18	15	13	13	11	10	8

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

	0°	45°	90°
0°	5691	5691	5691
5°	5742	5698	5669
10°	5724	5684	5655
15°	5699	5663	5633
20°	5670	5634	5593
25°	5631	5593	5528
30°	5570	5530	5450
35°	5487	5439	5361
40°	5362	5304	5209
45°	5143	5053	4949
50°	4758	4645	4553
55°	4153	4060	3975
60°	3500	3471	3403
65°	3028	3039	3015
70°	2781	2795	2795
75°	2670	2670	2688
80°	2513	2540	2513
85°	2022	2255	2255



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.3	1.1
10°-20°	166.9	3.0
20°-30°	251.7	4.6
30°-40°	299.9	5.4
40°-50°	295.7	5.4
50°-60°	226.0	4.1
60°-70°	139.9	2.5
70°-80°	79.4	1.4
80°-90°	25.6	0.5
90°-100°	288.3	5.2
100°-110°	776.6	14.1
110°-120°	815.0	14.8
120°-130°	661.3	12.0
130°-140°	518.7	9.4
140°-150°	398.2	7.2
150°-160°	286.3	5.2
160°-170°	174.9	3.2
170°-180°	59.0	1.1
0°-30°	477.0	8.6
0°-40°	776.9	14.1
0°-60°	1298.6	23.5
0°-90°	1543.5	28.0
90°-120°	1879.8	34.0
90°-150°	3458.0	62.6
90°-180°	3978.0	72.0
0°-180°	5521.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	617	617	617	617	617	
5°	620	613	615	613	612	59
15°	597	590	593	591	590	168
25°	553	546	549	544	543	255
35°	487	482	483	477	476	304
45°	394	389	387	380	379	302
55°	258	254	252	248	247	231
65°	139	138	139	138	138	140
75°	75	75	75	75	75	79
85°	19	20	21	21	21	22
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°	616.8	616.8	616.8	616.8	616.8
2.5°	620.7	615.3	616.8	615.5	612.6
5°	620.0	613.3	615.2	613.1	612.1
7.5°	615.2	608.6	610.6	608.4	607.8
10°	611.0	604.8	606.7	604.6	603.6
12.5°	606.3	599.7	602.1	599.5	598.5
15°	596.6	590.4	592.9	590.8	589.7
17.5°	586.0	579.4	581.9	579.4	578.1
20°	577.5	571.3	573.8	570.1	569.6
22.5°	568.2	561.9	564.5	559.5	559.3
25°	553.1	546.3	549.4	543.5	543.0
27.5°	535.1	528.9	531.4	525.4	524.8
30°	522.8	516.6	519.1	512.7	511.6
32.5°	508.8	503.0	505.1	498.7	498.0
35°	487.2	481.5	482.9	476.6	476.0
37.5°	462.7	457.5	458.3	451.3	450.8
40°	445.2	440.0	440.4	433.0	432.5
42.5°	426.1	420.9	420.5	413.0	412.5
45°	394.2	389.0	387.3	380.4	379.3
47.5°	357.9	352.7	349.5	343.8	343.1
50°	331.5	326.3	323.6	318.7	317.2
52.5°	303.1	297.9	295.5	291.1	289.6
55°	258.2	254.1	252.4	248.1	247.1
57.5°	215.6	212.8	212.3	208.2	207.7
60°	189.7	188.1	188.1	184.4	184.4
62.5°	167.6	166.4	167.3	164.8	164.4
65°	138.7	137.6	139.2	138.1	138.1
67.5°	115.8	115.8	116.8	116.4	116.4
70°	103.1	103.1	103.6	103.6	103.6
72.5°	91.6	91.2	92.6	92.5	92.1
75°	74.9	74.9	74.9	75.4	75.4
77.5°	58.3	58.4	58.9	58.8	58.3
80°	47.3	47.8	47.8	47.3	47.3
82.5°	36.2	36.8	36.8	36.7	36.2
85°	19.1	20.2	21.3	21.3	21.3
87.5°	5.8	8.1	10.4	10.5	10.1
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)