

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: P565006

Luminaire Tested: **SQ4-PW1-125U-050D-835-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P565006  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2106-289-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PW1-125U-050D-835-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

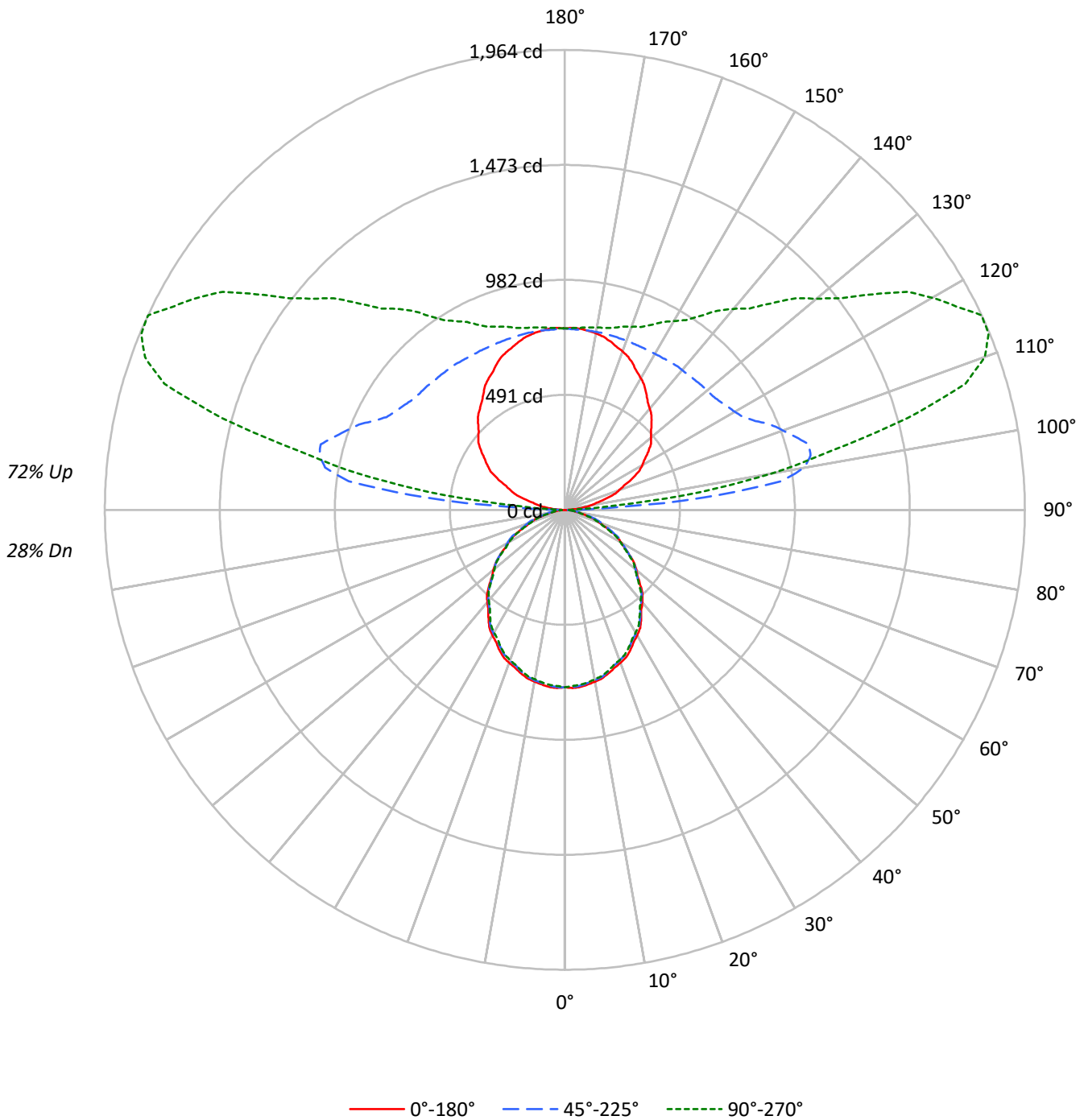
Lumens per Lamp: N/A  
Luminaire Lumens: 6929.2 lumens  
Efficiency: N/A  
Efficacy: 144.7 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

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	79	76	74	62	60	58	46	45	44	32	31	30	24
2	85	77	72	67	75	69	65	60	55	51	48	41	39	37	28	27	26	20
3	77	68	61	55	69	61	55	50	48	44	41	36	33	31	25	23	22	17
4	70	60	53	47	63	54	48	43	43	38	34	32	29	26	22	20	19	14
5	65	53	46	40	58	48	41	36	38	33	30	29	25	23	20	18	16	13
6	59	48	40	34	53	43	36	31	34	29	26	26	22	20	18	16	14	11
7	55	43	35	30	49	39	32	27	31	26	22	23	20	18	16	14	13	10
8	51	39	31	26	45	35	29	24	28	23	20	21	18	16	15	13	11	9
9	47	35	28	23	42	32	26	21	26	21	18	20	16	14	14	12	10	8
10	44	32	25	21	39	29	23	19	23	19	16	18	15	12	13	11	9	7

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

	0°	45°	90°
0°	6992	6992	6992
5°	7037	6981	6951
10°	6980	6924	6887
15°	6907	6830	6805
20°	6824	6720	6706
25°	6729	6607	6586
30°	6587	6487	6444
35°	6400	6310	6271
40°	6200	6104	6080
45°	5959	5881	5855
50°	5711	5664	5625
55°	5445	5445	5360
60°	5113	5211	5026
65°	4678	4912	4563
70°	4125	4521	4017
75°	3522	4046	3426
80°	2731	3406	2768
85°	1768	2615	2329



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.4	1.0
10°-20°	201.5	2.9
20°-30°	298.8	4.3
30°-40°	349.7	5.0
40°-50°	348.1	5.0
50°-60°	300.6	4.3
60°-70°	216.4	3.1
70°-80°	113.5	1.6
80°-90°	29.9	0.4
90°-100°	362.3	5.2
100°-110°	975.9	14.1
110°-120°	1024.2	14.8
120°-130°	831.1	12.0
130°-140°	651.8	9.4
140°-150°	500.4	7.2
150°-160°	359.8	5.2
160°-170°	219.8	3.2
170°-180°	74.1	1.1
0°-30°	571.7	8.3
0°-40°	921.3	13.3
0°-60°	1570.1	22.7
0°-90°	1929.9	27.9
90°-120°	2362.3	34.1
90°-150°	4345.6	62.7
90°-180°	4999.0	72.1
0°-180°	6929.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	758	758	758	758	758	
5°	760	751	754	752	750	72
15°	723	714	715	714	712	204
25°	661	650	649	645	647	304
35°	568	560	560	555	557	355
45°	457	453	451	449	449	352
55°	338	338	338	334	333	302
65°	214	221	225	216	209	212
75°	99	108	114	106	96	106
85°	17	22	25	23	22	22
90°	2	6	12	13	13	4
95°	55	197	594	304	210	58
105°	180	281	1079	1615	1515	190
115°	319	390	899	1736	1964	314
125°	435	500	807	1364	1605	389
135°	524	585	784	1100	1246	404
145°	606	653	774	941	1010	380
155°	688	713	768	844	871	317
165°	746	754	770	801	805	210
175°	775	774	772	782	780	74
180°	774	774	774	774	774	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	757.8	757.8	757.8	757.8	757.8
2.5°	762.1	755.8	757.8	756.1	752.5
5°	759.8	751.3	753.8	751.8	750.5
7.5°	752.1	744.2	746.1	743.9	743.1
10°	745.1	737.3	739.1	736.4	735.1
12.5°	737.1	728.7	730.6	727.9	727.1
15°	723.1	713.9	715.1	713.7	712.4
17.5°	706.8	697.5	697.7	695.6	695.3
20°	695.0	685.2	684.4	681.7	683.0
22.5°	682.2	671.9	671.0	667.3	669.1
25°	661.0	649.9	649.0	645.0	647.0
27.5°	636.4	625.5	625.5	619.9	622.0
30°	618.3	607.8	608.9	602.3	604.9
32.5°	599.0	589.6	590.2	583.6	586.2
35°	568.2	560.4	560.2	554.9	556.8
37.5°	536.7	529.8	528.7	525.6	526.1
40°	514.8	508.9	506.8	504.8	504.8
42.5°	491.8	486.4	484.3	482.8	482.3
45°	456.7	452.8	450.7	449.3	448.7
47.5°	422.0	418.3	416.5	415.5	414.9
50°	397.9	395.3	394.6	392.6	391.9
52.5°	373.9	372.3	371.6	369.1	368.4
55°	338.5	337.9	338.5	333.8	333.2
57.5°	301.7	302.7	304.9	298.5	297.0
60°	277.1	279.7	282.4	275.0	272.4
62.5°	252.0	256.2	260.0	251.5	247.8
65°	214.3	220.8	225.0	216.2	209.0
67.5°	178.0	186.1	191.1	181.6	173.5
70°	152.9	162.0	167.6	158.0	148.9
72.5°	131.0	141.2	145.7	136.7	127.5
75°	98.8	108.0	113.5	105.9	96.1
77.5°	70.1	78.7	83.3	76.7	68.6
80°	51.4	60.5	64.1	58.6	52.1
82.5°	36.5	44.0	46.5	43.2	38.7
85°	16.7	21.9	24.7	23.3	22.0
87.5°	4.7	9.1	12.5	12.7	13.2
90°	2.0	5.8	11.8	12.8	12.8
92.5°	24.1	85.0	168.1	80.9	56.2
95°	55.2	197.0	593.9	303.7	210.1
97.5°	88.2	225.6	931.5	778.2	586.8
100°	113.4	236.9	1038.8	1086.9	901.7
102.5°	137.9	252.9	1074.3	1318.1	1166.1
105°	180.5	280.9	1079.3	1614.6	1515.3
107.5°	220.8	310.3	1033.3	1767.0	1792.7
110°	247.6	332.5	991.5	1814.4	1907.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	276.0	354.7	951.2	1803.9	1957.7
115°	318.6	390.0	898.7	1736.5	1964.2
117.5°	357.5	424.5	858.1	1629.0	1882.5
120°	382.8	447.4	837.6	1551.8	1812.2
122.5°	404.9	468.7	822.6	1472.9	1732.5
125°	435.1	499.7	807.0	1363.9	1605.1
127.5°	464.1	527.7	797.1	1267.8	1483.1
130°	481.4	545.1	793.2	1212.8	1401.8
132.5°	498.8	561.7	789.2	1164.3	1337.9
135°	523.8	584.6	784.3	1100.3	1246.0
137.5°	547.7	606.0	781.7	1046.1	1165.7
140°	564.3	620.2	779.4	1012.7	1120.7
142.5°	581.7	633.7	777.8	981.5	1072.5
145°	605.7	653.0	774.4	940.7	1010.2
147.5°	631.8	672.9	771.1	906.5	961.1
150°	649.1	684.8	769.5	885.0	930.3
152.5°	664.9	696.0	768.7	867.4	904.2
155°	687.6	712.7	767.5	844.1	871.1
157.5°	707.5	727.0	767.7	827.7	845.8
160°	720.2	736.6	768.5	818.1	831.6
162.5°	731.2	744.5	769.3	810.2	819.8
165°	745.8	754.5	770.5	801.1	805.0
167.5°	757.6	762.7	771.5	794.2	795.7
170°	765.5	767.5	771.5	790.2	790.2
172.5°	770.3	770.7	772.2	786.3	786.3
175°	775.4	774.4	771.5	782.3	780.3
177.5°	777.6	776.0	772.1	778.3	776.8
180°	774.4	774.4	774.4	774.4	774.4

(END OF REPORT)