

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: P562408

Luminaire Tested: **SQ4-PW1-125U-050D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562408  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, 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-92765-1D-UNV-STD-W-4 (6500K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

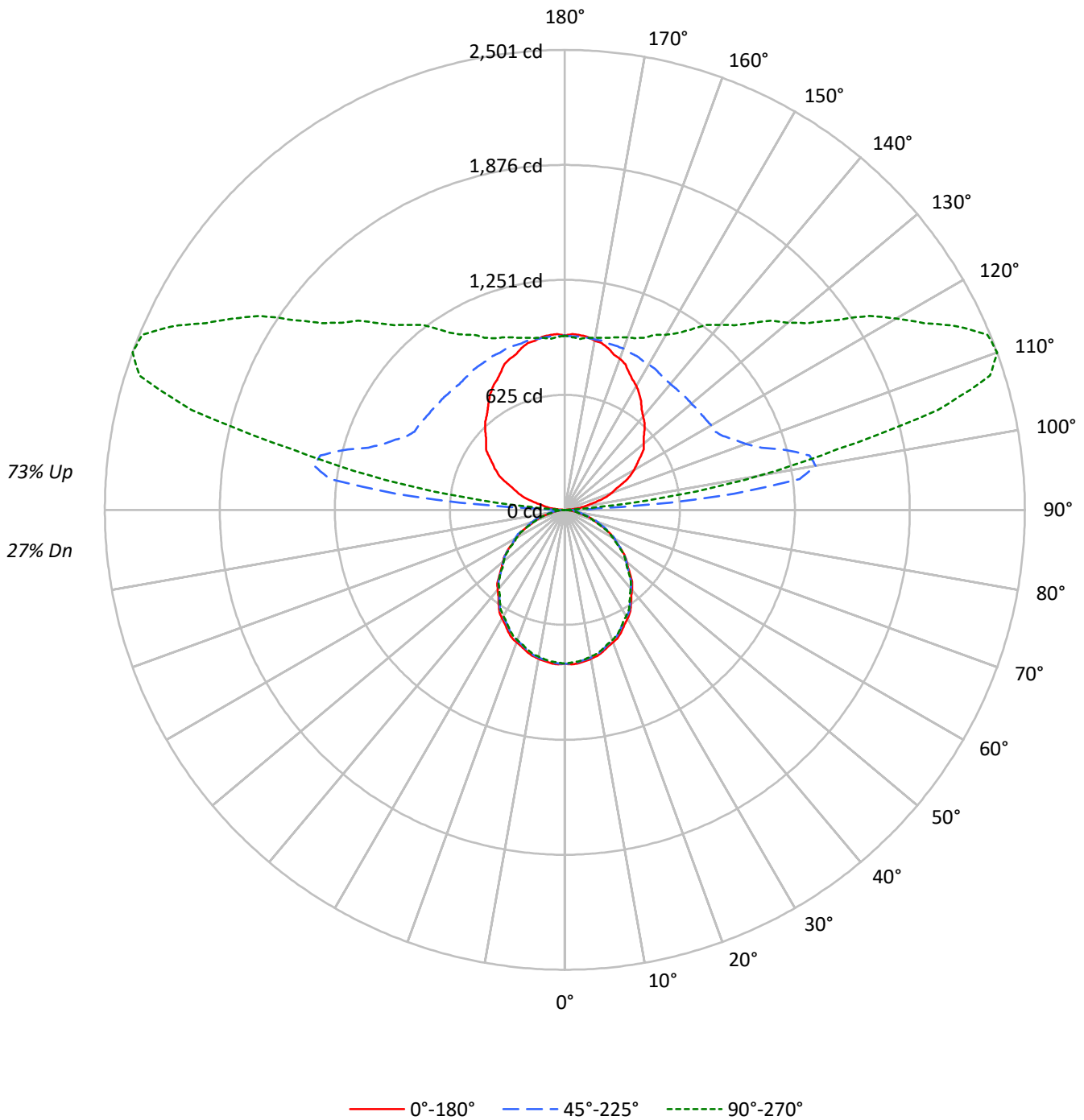
Lumens per Lamp: N/A  
Luminaire Lumens: 8010.4 lumens  
Efficiency: N/A  
Efficacy: 129.8 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 61.7  
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	70	70	70	52	52	52	35	35	35	27
1	93	88	85	81	83	79	76	73	62	60	58	45	44	43	31	30	29	23
2	84	77	71	66	75	69	64	60	54	51	48	40	38	36	27	26	25	19
3	77	68	61	55	68	61	55	50	48	43	40	35	33	30	24	22	21	16
4	70	60	52	47	62	54	47	42	42	38	34	31	28	26	21	20	18	14
5	64	53	45	40	57	48	41	36	38	33	29	28	25	22	19	17	16	12
6	59	48	40	34	53	43	36	31	34	29	25	25	22	20	17	15	14	11
7	55	43	35	30	49	39	32	27	31	26	22	23	20	17	16	14	12	9
8	51	39	31	26	45	35	28	24	28	23	20	21	18	15	15	12	11	8
9	47	35	28	23	42	32	26	21	25	21	17	19	16	14	13	11	10	8
10	44	32	25	21	39	29	23	19	23	19	16	18	14	12	12	10	9	7

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

	0°	45°	90°
0°	7716	7716	7716
5°	7766	7705	7670
10°	7704	7642	7601
15°	7622	7538	7510
20°	7532	7416	7401
25°	7426	7291	7269
30°	7269	7159	7112
35°	7063	6963	6921
40°	6842	6736	6710
45°	6576	6490	6461
50°	6304	6251	6208
55°	6010	6010	5915
60°	5643	5752	5547
65°	5163	5421	5034
70°	4551	4990	4432
75°	3889	4467	3782
80°	3013	3756	3055
85°	1948	2890	2572



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	78.8	1.0
10°-20°	222.3	2.8
20°-30°	329.8	4.1
30°-40°	385.9	4.8
40°-50°	384.2	4.8
50°-60°	331.8	4.1
60°-70°	238.8	3.0
70°-80°	125.2	1.6
80°-90°	31.1	0.4
90°-100°	431.5	5.4
100°-110°	1227.8	15.3
110°-120°	1176.4	14.7
120°-130°	931.1	11.6
130°-140°	747.3	9.3
140°-150°	585.1	7.3
150°-160°	428.1	5.3
160°-170°	265.2	3.3
170°-180°	90.0	1.1
0°-30°	630.9	7.9
0°-40°	1016.8	12.7
0°-60°	1732.8	21.6
0°-90°	2127.9	26.6
90°-120°	2835.8	35.4
90°-150°	5099.2	63.7
90°-180°	5882.0	73.4
0°-180°	8010.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	836	836	836	836	836	
5°	838	829	832	830	828	79
15°	798	788	789	788	786	225
25°	730	717	716	712	714	335
35°	627	618	618	612	614	392
45°	504	500	497	496	495	389
55°	374	373	374	368	368	333
65°	236	244	248	239	231	234
75°	109	119	125	117	106	117
85°	18	24	27	26	24	24
90°	0	0	0	0	0	3
95°	47	186	835	289	178	54
105°	191	289	1251	2210	2101	202
115°	355	429	949	2010	2360	349
125°	500	555	906	1503	1797	448
135°	612	663	895	1269	1435	472
145°	722	759	902	1099	1197	451
155°	825	844	924	993	1033	381
165°	911	914	934	954	969	256
175°	954	949	945	940	933	90
180°	947	947	947	947	947	

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CATALOG NUMBER: SQ4-PW1-125U-050D-92765-1D-UNV-STD-W-4 (6500K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	836.3	836.3	836.3	836.3	836.3
2.5°	841.1	834.1	836.3	834.5	830.4
5°	838.5	829.2	831.9	829.7	828.2
7.5°	830.0	821.4	823.4	821.0	820.1
10°	822.3	813.7	815.7	812.7	811.3
12.5°	813.5	804.3	806.3	803.3	802.4
15°	798.0	787.9	789.2	787.7	786.2
17.5°	780.0	769.8	770.0	767.7	767.4
20°	767.1	756.3	755.3	752.4	753.8
22.5°	752.9	741.5	740.5	736.5	738.5
25°	729.5	717.2	716.2	711.9	714.0
27.5°	702.4	690.3	690.3	684.2	686.5
30°	682.3	670.8	672.0	664.7	667.6
32.5°	661.1	650.7	651.4	644.1	647.0
35°	627.1	618.4	618.2	612.4	614.5
37.5°	592.3	584.7	583.4	580.1	580.6
40°	568.1	561.6	559.3	557.1	557.1
42.5°	542.8	536.9	534.5	532.9	532.3
45°	504.0	499.7	497.4	495.9	495.2
47.5°	465.7	461.7	459.7	458.6	457.9
50°	439.2	436.3	435.5	433.3	432.5
52.5°	412.6	410.9	410.1	407.3	406.6
55°	373.6	372.9	373.6	368.4	367.7
57.5°	332.9	334.1	336.5	329.5	327.8
60°	305.8	308.7	311.7	303.5	300.6
62.5°	278.1	282.7	286.9	277.6	273.5
65°	236.5	243.7	248.3	238.6	230.6
67.5°	196.4	205.4	210.9	200.4	191.4
70°	168.7	178.8	185.0	174.4	164.3
72.5°	144.6	155.8	160.8	150.8	140.7
75°	109.1	119.1	125.3	116.9	106.1
77.5°	77.4	86.9	92.0	84.7	75.7
80°	56.7	66.8	70.7	64.7	57.5
82.5°	40.2	48.6	51.3	47.6	42.7
85°	18.4	24.2	27.3	25.8	24.3
87.5°	4.7	8.8	11.2	11.2	11.8
90°	0.0	0.0	0.0	0.0	0.0
92.5°	14.4	76.4	177.2	51.6	38.9
95°	46.8	185.9	835.4	289.1	178.2
97.5°	86.1	217.7	1286.6	920.6	630.9
100°	113.4	236.6	1384.5	1402.4	1080.2
102.5°	143.7	257.0	1362.9	1795.1	1513.8
105°	190.8	289.4	1251.3	2210.2	2101.0
107.5°	238.7	327.1	1120.9	2327.2	2424.4
110°	271.9	354.6	1046.0	2282.4	2500.7

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	303.5	382.1	995.6	2176.5	2487.8
115°	354.7	428.6	948.8	2010.0	2360.3
117.5°	399.7	469.0	921.1	1827.9	2199.0
120°	435.7	493.8	918.2	1723.8	2079.4
122.5°	464.5	522.6	911.0	1632.5	1962.8
125°	500.5	555.1	905.6	1502.8	1796.8
127.5°	539.8	590.8	902.7	1425.3	1667.5
130°	559.9	611.0	898.4	1371.3	1582.5
132.5°	581.5	631.2	898.4	1329.1	1523.5
135°	612.1	663.2	894.8	1269.4	1434.9
137.5°	640.9	690.6	894.4	1218.9	1361.8
140°	662.5	713.6	893.0	1177.0	1314.3
142.5°	687.0	729.6	897.3	1143.5	1266.7
145°	722.0	758.9	902.0	1098.7	1197.3
147.5°	751.8	787.8	909.9	1053.4	1138.6
150°	777.8	802.4	912.8	1038.4	1098.2
152.5°	797.9	824.0	915.7	1018.1	1073.7
155°	824.6	843.9	923.6	992.9	1033.4
157.5°	857.7	869.3	925.4	981.5	1010.4
160°	875.0	883.8	932.6	972.8	997.4
162.5°	885.1	895.3	934.0	965.4	984.4
165°	911.0	914.5	934.4	954.5	968.6
167.5°	928.6	925.5	942.7	951.8	957.4
170°	934.4	932.6	939.8	941.8	948.8
172.5°	947.4	941.4	944.1	938.8	944.5
175°	954.2	948.9	945.2	939.6	932.6
177.5°	957.1	948.6	944.1	938.4	939.8
180°	947.0	947.0	947.0	947.0	947.0

(END OF REPORT)