

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: P562401

Luminaire Tested: **SQ4-PW1-125U-050D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562401  
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 (2700K)  
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 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

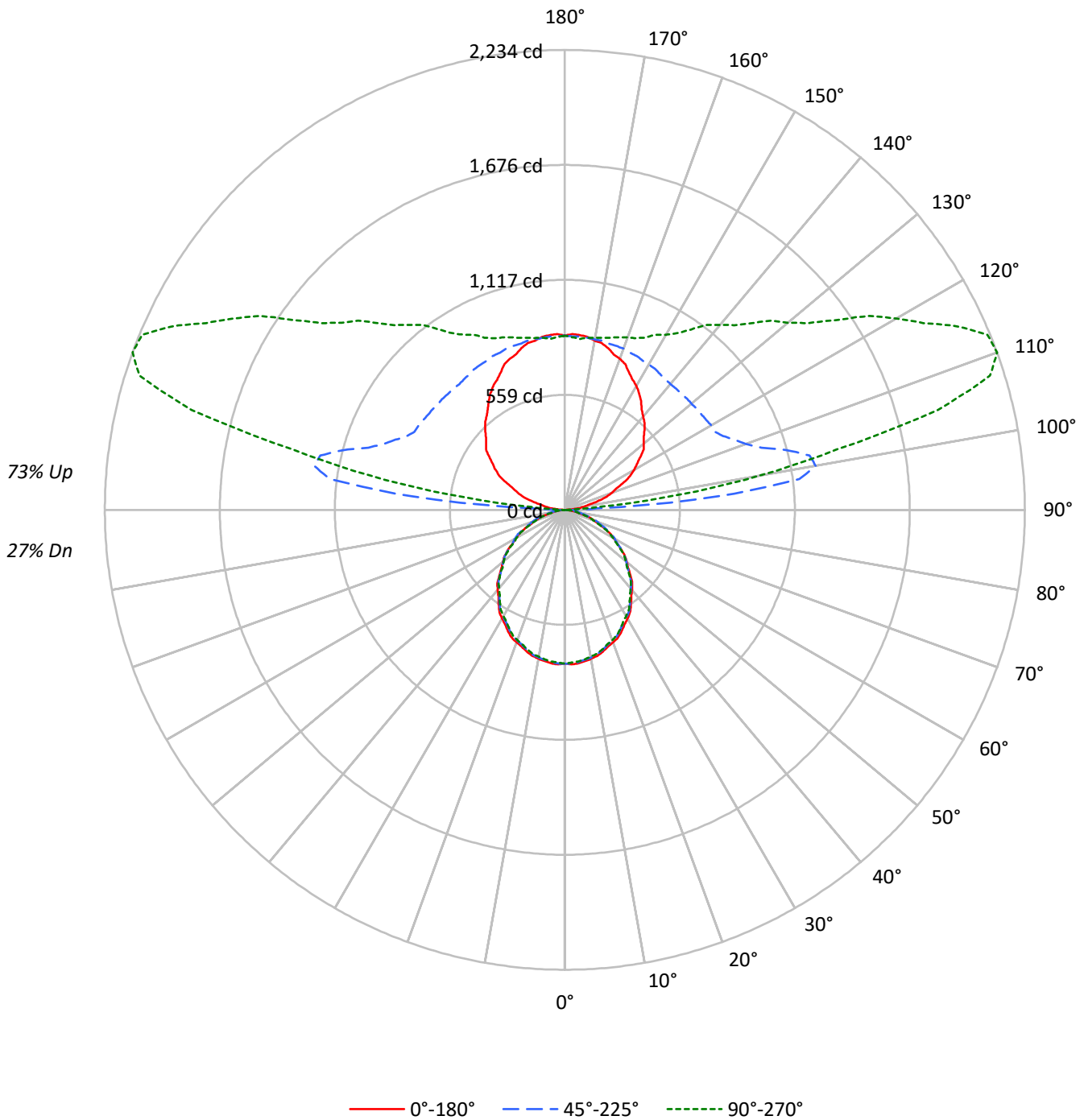
Lumens per Lamp: N/A  
Luminaire Lumens: 7154.9 lumens  
Efficiency: N/A  
Efficacy: 115.4 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 62  
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	50	30	10	0	
RCR																						
0	102	102	102	102	91	91	91	91	70	70	70	52	52	52	35	35	35	27				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°	6892	6892	6892
5°	6937	6882	6852
10°	6881	6826	6788
15°	6808	6733	6708
20°	6728	6623	6611
25°	6633	6512	6493
30°	6493	6394	6353
35°	6308	6219	6182
40°	6111	6016	5993
45°	5874	5797	5771
50°	5631	5583	5545
55°	5368	5368	5282
60°	5039	5137	4954
65°	4613	4842	4497
70°	4065	4456	3960
75°	3472	3989	3379
80°	2694	3358	2726
85°	1747	2583	2297



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	70.3	1.0
10°-20°	198.6	2.8
20°-30°	294.6	4.1
30°-40°	344.7	4.8
40°-50°	343.2	4.8
50°-60°	296.3	4.1
60°-70°	213.3	3.0
70°-80°	111.9	1.6
80°-90°	27.7	0.4
90°-100°	385.4	5.4
100°-110°	1096.7	15.3
110°-120°	1050.8	14.7
120°-130°	831.6	11.6
130°-140°	667.5	9.3
140°-150°	522.6	7.3
150°-160°	382.4	5.3
160°-170°	236.8	3.3
170°-180°	80.4	1.1
0°-30°	563.5	7.9
0°-40°	908.2	12.7
0°-60°	1547.7	21.6
0°-90°	1900.6	26.6
90°-120°	2532.9	35.4
90°-150°	4554.7	63.7
90°-180°	5254.0	73.4
0°-180°	7154.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	747	747	747	747	747	
5°	749	741	743	741	740	71
15°	713	704	705	704	702	201
25°	652	641	640	636	638	300
35°	560	552	552	547	549	350
45°	450	446	444	443	442	347
55°	334	333	334	329	328	298
65°	211	218	222	213	206	209
75°	97	106	112	104	95	104
85°	16	22	24	23	22	22
90°	0	0	0	0	0	2
95°	42	166	746	258	159	48
105°	170	258	1118	1974	1877	180
115°	317	383	848	1795	2108	312
125°	447	496	809	1342	1605	400
135°	547	592	799	1134	1282	422
145°	645	678	806	981	1069	403
155°	736	754	825	887	923	340
165°	814	817	835	853	865	229
175°	852	848	844	839	833	81
180°	846	846	846	846	846	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	747.0	747.0	747.0	747.0	747.0
2.5°	751.2	745.1	747.0	745.4	741.8
5°	749.0	740.6	743.1	741.1	739.8
7.5°	741.4	733.6	735.4	733.3	732.5
10°	734.5	726.8	728.6	725.9	724.6
12.5°	726.6	718.4	720.2	717.5	716.7
15°	712.8	703.8	704.9	703.6	702.3
17.5°	696.7	687.6	687.8	685.7	685.4
20°	685.2	675.5	674.6	672.0	673.3
22.5°	672.5	662.3	661.5	657.8	659.6
25°	651.6	640.6	639.7	635.8	637.8
27.5°	627.4	616.6	616.6	611.1	613.1
30°	609.5	599.2	600.2	593.7	596.3
32.5°	590.5	581.2	581.8	575.3	577.9
35°	560.1	552.4	552.2	547.0	548.9
37.5°	529.0	522.2	521.1	518.1	518.6
40°	507.4	501.7	499.5	497.6	497.6
42.5°	484.8	479.5	477.4	476.0	475.5
45°	450.2	446.3	444.3	442.9	442.3
47.5°	416.0	412.4	410.6	409.6	409.0
50°	392.3	389.7	389.0	387.0	386.3
52.5°	368.6	367.0	366.3	363.8	363.2
55°	333.7	333.0	333.7	329.1	328.4
57.5°	297.4	298.4	300.5	294.3	292.8
60°	273.1	275.7	278.4	271.1	268.5
62.5°	248.4	252.5	256.3	247.9	244.3
65°	211.3	217.7	221.8	213.1	206.0
67.5°	175.5	183.4	188.4	179.0	171.0
70°	150.7	159.7	165.2	155.8	146.8
72.5°	129.1	139.2	143.6	134.7	125.7
75°	97.4	106.4	111.9	104.4	94.8
77.5°	69.1	77.6	82.1	75.6	67.7
80°	50.7	59.7	63.2	57.8	51.3
82.5°	35.9	43.4	45.8	42.5	38.2
85°	16.5	21.6	24.4	23.0	21.7
87.5°	4.2	7.8	10.0	10.0	10.5
90°	0.0	0.0	0.0	0.0	0.0
92.5°	12.9	68.2	158.2	46.1	34.7
95°	41.8	166.0	746.2	258.3	159.2
97.5°	76.9	194.5	1149.2	822.3	563.5
100°	101.3	211.4	1236.6	1252.6	964.9
102.5°	128.3	229.6	1217.3	1603.4	1352.1
105°	170.5	258.5	1117.6	1974.1	1876.7
107.5°	213.2	292.2	1001.2	2078.7	2165.5
110°	242.8	316.7	934.3	2038.7	2233.7

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	271.1	341.3	889.3	1944.1	2222.1
115°	316.8	382.8	847.5	1795.3	2108.2
117.5°	357.0	419.0	822.7	1632.7	1964.1
120°	389.2	441.0	820.1	1539.7	1857.4
122.5°	414.9	466.8	813.7	1458.2	1753.2
125°	447.1	495.8	808.9	1342.3	1604.9
127.5°	482.1	527.7	806.3	1273.1	1489.4
130°	500.1	545.7	802.4	1224.8	1413.5
132.5°	519.4	563.8	802.4	1187.2	1360.8
135°	546.8	592.4	799.2	1133.9	1281.7
137.5°	572.5	616.8	798.9	1088.7	1216.4
140°	591.8	637.4	797.6	1051.3	1173.9
142.5°	613.7	651.7	801.5	1021.4	1131.5
145°	644.8	677.9	805.7	981.3	1069.4
147.5°	671.5	703.6	812.7	940.9	1017.0
150°	694.7	716.7	815.3	927.5	980.9
152.5°	712.7	736.0	817.9	909.4	959.1
155°	736.5	753.8	825.0	886.9	923.1
157.5°	766.1	776.5	826.6	876.7	902.5
160°	781.5	789.4	833.0	868.9	890.9
162.5°	790.5	799.7	834.3	862.3	879.3
165°	813.7	816.8	834.6	852.6	865.2
167.5°	829.5	826.6	842.0	850.2	855.2
170°	834.6	833.0	839.4	841.2	847.5
172.5°	846.2	840.8	843.3	838.6	843.6
175°	852.3	847.6	844.3	839.3	833.0
177.5°	854.9	847.3	843.3	838.2	839.4
180°	845.9	845.9	845.9	845.9	845.9

(END OF REPORT)