

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: P523885

Luminaire Tested: **SQ4-PP3-125U-050D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 5/24/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P523885  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2103-172-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/24/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PP3-125U-050D-92765-1D-UNV-STD-W-4 (5700K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

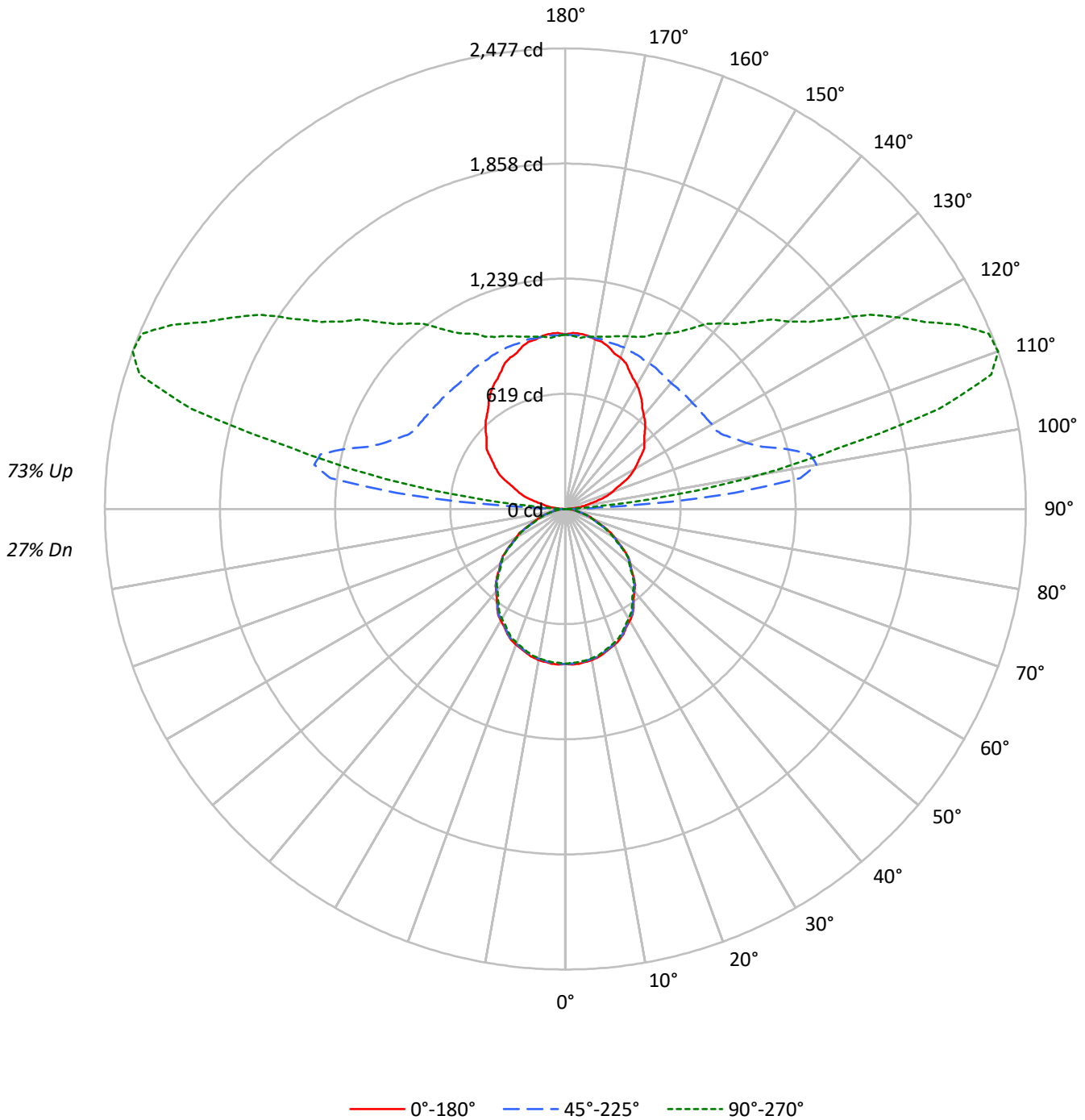
Lumens per Lamp: N/A  
Luminaire Lumens: 7958.4 lumens  
Efficiency: N/A  
Efficacy: 128.4 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

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	0
RCR																		
0	102	102	102	102	91	91	91	91	70	70	70	52	52	52	35	35	35	27
1	93	89	85	82	83	79	76	73	62	60	58	46	44	43	31	30	30	23
2	84	77	72	67	75	69	64	60	54	51	48	40	38	36	27	26	25	19
3	77	68	61	56	69	61	55	50	48	44	40	36	33	31	24	23	21	16
4	70	60	53	47	63	54	48	43	42	38	34	32	29	26	22	20	18	14
5	65	53	46	40	57	48	41	36	38	33	29	28	25	23	19	18	16	12
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	17	16	14	12	10
8	51	39	31	26	45	35	29	24	28	23	20	21	18	15	15	13	11	9
9	47	35	28	23	42	32	26	21	25	21	18	19	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°	7683	7683	7683
5°	7739	7692	7665
10°	7725	7671	7637
15°	7675	7633	7591
20°	7624	7581	7524
25°	7533	7481	7407
30°	7394	7355	7261
35°	7201	7151	7061
40°	6970	6926	6847
45°	6780	6731	6665
50°	6537	6495	6432
55°	6198	6116	6069
60°	5643	5480	5455
65°	4971	4764	4748
70°	4292	4114	4114
75°	3693	3643	3590
80°	3257	3294	3220
85°	2551	2784	2784



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	78.7	1.0
10°-20°	224.8	2.8
20°-30°	336.8	4.2
30°-40°	395.0	5.0
40°-50°	396.2	5.0
50°-60°	338.0	4.2
60°-70°	220.4	2.8
70°-80°	110.6	1.4
80°-90°	30.6	0.4
90°-100°	427.5	5.4
100°-110°	1216.3	15.3
110°-120°	1165.4	14.6
120°-130°	922.3	11.6
130°-140°	740.3	9.3
140°-150°	579.6	7.3
150°-160°	424.1	5.3
160°-170°	262.7	3.3
170°-180°	89.1	1.1
0°-30°	640.3	8.0
0°-40°	1035.3	13.0
0°-60°	1769.5	22.2
0°-90°	2131.1	26.8
90°-120°	2809.1	35.3
90°-150°	5051.4	63.5
90°-180°	5827.0	73.2
0°-180°	7958.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	833	833	833	833	833	
5°	836	828	830	828	828	79
15°	804	796	799	796	795	227
25°	740	731	735	728	728	340
35°	639	633	635	628	627	399
45°	520	516	516	511	511	400
55°	385	384	380	378	377	342
65°	228	223	218	217	218	227
75°	104	104	102	101	101	112
85°	24	26	26	26	26	28
90°	0	0	0	0	0	3
95°	46	184	828	286	177	53
105°	189	287	1240	2189	2081	200
115°	351	425	940	1991	2338	346
125°	496	550	897	1489	1780	444
135°	606	657	886	1258	1421	468
145°	715	752	894	1088	1186	447
155°	817	836	915	984	1024	378
165°	902	906	926	946	960	254
175°	945	940	936	931	924	90
180°	938	938	938	938	938	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	832.7	832.7	832.7	832.7	832.7
2.5°	837.9	831.1	832.7	831.4	828.0
5°	835.6	827.7	830.5	827.6	827.6
7.5°	829.9	821.3	824.1	821.1	821.0
10°	824.6	816.1	818.8	815.9	815.2
12.5°	817.0	808.5	811.8	808.3	808.1
15°	803.5	795.6	799.1	796.1	794.7
17.5°	788.1	779.6	783.8	779.7	779.1
20°	776.5	767.9	772.1	766.3	766.3
22.5°	762.5	753.9	758.7	751.1	751.1
25°	740.0	731.4	734.9	728.3	727.6
27.5°	713.3	704.9	708.5	701.0	700.9
30°	694.0	686.2	690.4	682.3	681.6
32.5°	673.0	665.7	668.8	660.7	660.0
35°	639.3	632.9	634.9	627.6	626.9
37.5°	603.8	597.2	599.6	593.3	593.0
40°	578.7	574.4	575.1	569.9	568.5
42.5°	555.4	550.5	551.1	546.0	545.7
45°	519.6	516.0	515.9	510.8	510.8
47.5°	481.6	478.9	478.1	473.9	473.8
50°	455.4	453.2	452.5	448.8	448.1
52.5°	427.9	426.9	424.4	421.4	421.2
55°	385.3	383.9	380.2	378.0	377.3
57.5°	339.1	336.2	332.0	328.8	329.4
60°	305.8	302.9	297.0	295.6	295.6
62.5°	273.7	270.2	264.3	262.3	263.4
65°	227.7	223.4	218.2	216.8	217.5
67.5°	185.9	182.1	176.5	176.4	175.9
70°	159.1	156.9	152.5	152.5	152.5
72.5°	135.2	134.2	130.9	130.9	130.3
75°	103.6	103.6	102.2	101.4	100.7
77.5°	77.6	77.9	77.2	76.5	75.2
80°	61.3	62.7	62.0	61.3	60.6
82.5°	46.1	47.5	47.4	46.1	46.0
85°	24.1	26.2	26.3	26.3	26.3
87.5°	6.4	8.7	9.3	9.4	9.9
90°	0.0	0.0	0.0	0.0	0.0
92.5°	14.3	75.7	175.5	51.1	38.5
95°	46.4	184.1	827.5	286.4	176.6
97.5°	85.2	215.7	1274.5	912.0	624.9
100°	112.4	234.4	1371.5	1389.2	1070.1
102.5°	142.3	254.6	1350.1	1778.2	1499.5
105°	189.0	286.7	1239.5	2189.4	2081.3
107.5°	236.5	324.0	1110.4	2305.4	2401.6
110°	269.3	351.3	1036.2	2261.0	2477.2

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	300.7	378.5	986.3	2156.1	2464.4
115°	351.3	424.6	939.9	1991.1	2338.1
117.5°	395.9	464.6	912.4	1810.7	2178.3
120°	431.6	489.1	909.6	1707.7	2059.9
122.5°	460.1	517.7	902.4	1617.2	1944.3
125°	495.8	549.9	897.1	1488.7	1779.9
127.5°	534.7	585.3	894.2	1411.9	1651.8
130°	554.7	605.2	890.0	1358.4	1567.7
132.5°	576.1	625.2	890.0	1316.7	1509.2
135°	606.4	657.0	886.4	1257.5	1421.4
137.5°	634.9	684.1	886.0	1207.4	1349.0
140°	656.3	706.9	884.6	1165.9	1301.9
142.5°	680.6	722.8	888.9	1132.8	1254.8
145°	715.2	751.8	893.5	1088.4	1186.0
147.5°	744.8	780.4	901.4	1043.5	1127.9
150°	770.5	794.9	904.2	1028.6	1087.9
152.5°	790.4	816.2	907.1	1008.6	1063.7
155°	816.8	836.0	914.9	983.6	1023.7
157.5°	849.6	861.2	916.7	972.3	1000.9
160°	866.8	875.5	923.8	963.6	988.0
162.5°	876.8	886.9	925.3	956.4	975.2
165°	902.4	905.9	925.6	945.6	959.5
167.5°	919.9	916.8	933.8	942.9	948.4
170°	925.6	923.9	931.0	932.9	939.9
172.5°	938.5	932.5	935.3	930.0	935.6
175°	945.2	940.0	936.3	930.8	923.8
177.5°	948.1	939.7	935.3	929.6	931.0
180°	938.1	938.1	938.1	938.1	938.1

(END OF REPORT)