

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: P523879

Luminaire Tested: **SQ4-PP3-125U-050D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 5/24/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P523879  
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 (2700K)  
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 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

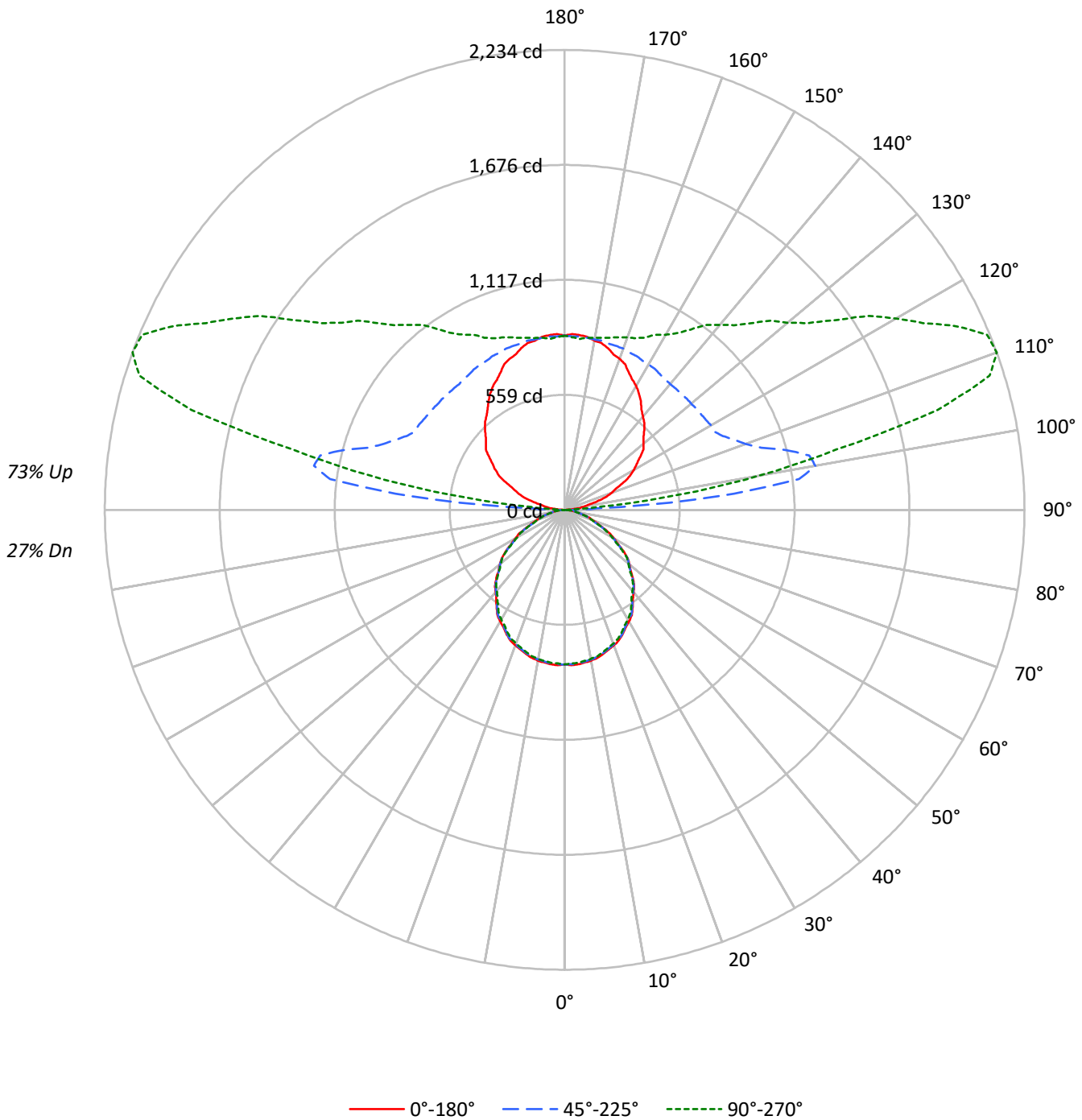
Lumens per Lamp: N/A  
Luminaire Lumens: 7175.8 lumens  
Efficiency: N/A  
Efficacy: 115.7 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

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	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	89	85	82	83	79	76	73	62	60	58	46	44	43	31	30	30	23				23
2	84	77	72	67	75	69	64	60	54	51	48	40	38	36	27	26	25	19				19
3	77	68	61	56	69	61	55	50	48	44	40	36	33	31	24	23	21	16				16
4	70	60	53	47	63	54	48	43	42	38	34	32	29	26	22	20	18	14				14
5	65	53	46	40	57	48	41	36	38	33	29	28	25	23	19	18	16	12				12
6	59	48	40	34	53	43	36	31	34	29	26	26	22	20	18	16	14	11				11
7	55	43	35	30	49	39	32	27	31	26	22	23	20	17	16	14	12	10				10
8	51	39	31	26	45	35	29	24	28	23	20	21	18	15	15	13	11	9				9
9	47	35	28	23	42	32	26	21	25	21	18	19	16	14	14	12	10	8				8
10	44	32	25	21	39	29	23	19	23	19	16	18	15	12	13	11	9	7				7

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

	0°	45°	90°
0°	6927	6927	6927
5°	6978	6935	6911
10°	6966	6917	6886
15°	6920	6882	6845
20°	6874	6836	6783
25°	6792	6745	6678
30°	6667	6632	6548
35°	6492	6448	6366
40°	6285	6245	6174
45°	6113	6070	6010
50°	5894	5856	5799
55°	5588	5514	5472
60°	5087	4942	4918
65°	4482	4294	4281
70°	3868	3709	3709
75°	3329	3283	3237
80°	2938	2970	2901
85°	2297	2509	2509



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.0	1.0
10°-20°	202.7	2.8
20°-30°	303.6	4.2
30°-40°	356.1	5.0
40°-50°	357.3	5.0
50°-60°	304.8	4.2
60°-70°	198.8	2.8
70°-80°	99.7	1.4
80°-90°	27.6	0.4
90°-100°	385.4	5.4
100°-110°	1096.7	15.3
110°-120°	1050.8	14.6
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°	577.3	8.0
0°-40°	933.5	13.0
0°-60°	1595.5	22.2
0°-90°	1921.6	26.8
90°-120°	2532.9	35.3
90°-150°	4554.7	63.5
90°-180°	5254.0	73.2
0°-180°	7175.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	751	751	751	751	751	
5°	753	746	749	746	746	72
15°	724	717	720	718	717	204
25°	667	660	663	657	656	307
35°	576	571	572	566	565	360
45°	468	465	465	461	461	361
55°	347	346	343	341	340	309
65°	205	201	197	195	196	205
75°	93	93	92	91	91	101
85°	22	24	24	24	24	26
90°	0	0	0	0	0	3
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°	750.8	750.8	750.8	750.8	750.8
2.5°	755.5	749.4	750.8	749.7	746.6
5°	753.4	746.3	748.8	746.2	746.2
7.5°	748.3	740.6	743.0	740.4	740.3
10°	743.6	735.8	738.3	735.6	735.0
12.5°	736.7	729.0	732.0	728.8	728.7
15°	724.5	717.4	720.5	717.9	716.6
17.5°	710.7	702.9	706.7	703.0	702.5
20°	700.1	692.4	696.2	690.9	690.9
22.5°	687.5	679.8	684.1	677.2	677.2
25°	667.2	659.5	662.6	656.7	656.0
27.5°	643.1	635.5	638.8	632.1	632.0
30°	625.8	618.7	622.5	615.2	614.6
32.5°	606.8	600.3	603.0	595.7	595.1
35°	576.4	570.6	572.5	565.9	565.2
37.5°	544.4	538.5	540.6	535.0	534.7
40°	521.8	517.9	518.5	513.9	512.6
42.5°	500.7	496.4	496.9	492.3	492.1
45°	468.5	465.3	465.2	460.6	460.6
47.5°	434.3	431.8	431.1	427.3	427.2
50°	410.6	408.7	408.0	404.7	404.0
52.5°	385.9	385.0	382.7	379.9	379.8
55°	347.4	346.1	342.8	340.8	340.2
57.5°	305.7	303.1	299.4	296.5	297.0
60°	275.7	273.1	267.8	266.5	266.5
62.5°	246.8	243.7	238.3	236.5	237.5
65°	205.3	201.4	196.7	195.4	196.1
67.5°	167.7	164.2	159.1	159.1	158.6
70°	143.4	141.5	137.5	137.5	137.5
72.5°	121.9	121.0	118.0	118.0	117.5
75°	93.4	93.4	92.1	91.4	90.8
77.5°	70.0	70.3	69.6	68.9	67.8
80°	55.3	56.6	55.9	55.3	54.6
82.5°	41.6	42.9	42.8	41.6	41.5
85°	21.7	23.6	23.7	23.7	23.7
87.5°	5.8	7.8	8.4	8.4	8.9
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)