

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: P562566

Luminaire Tested: **SQ4-PC3-025U-100D-930-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562566  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G2-2106-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PC3-025U-100D-930-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

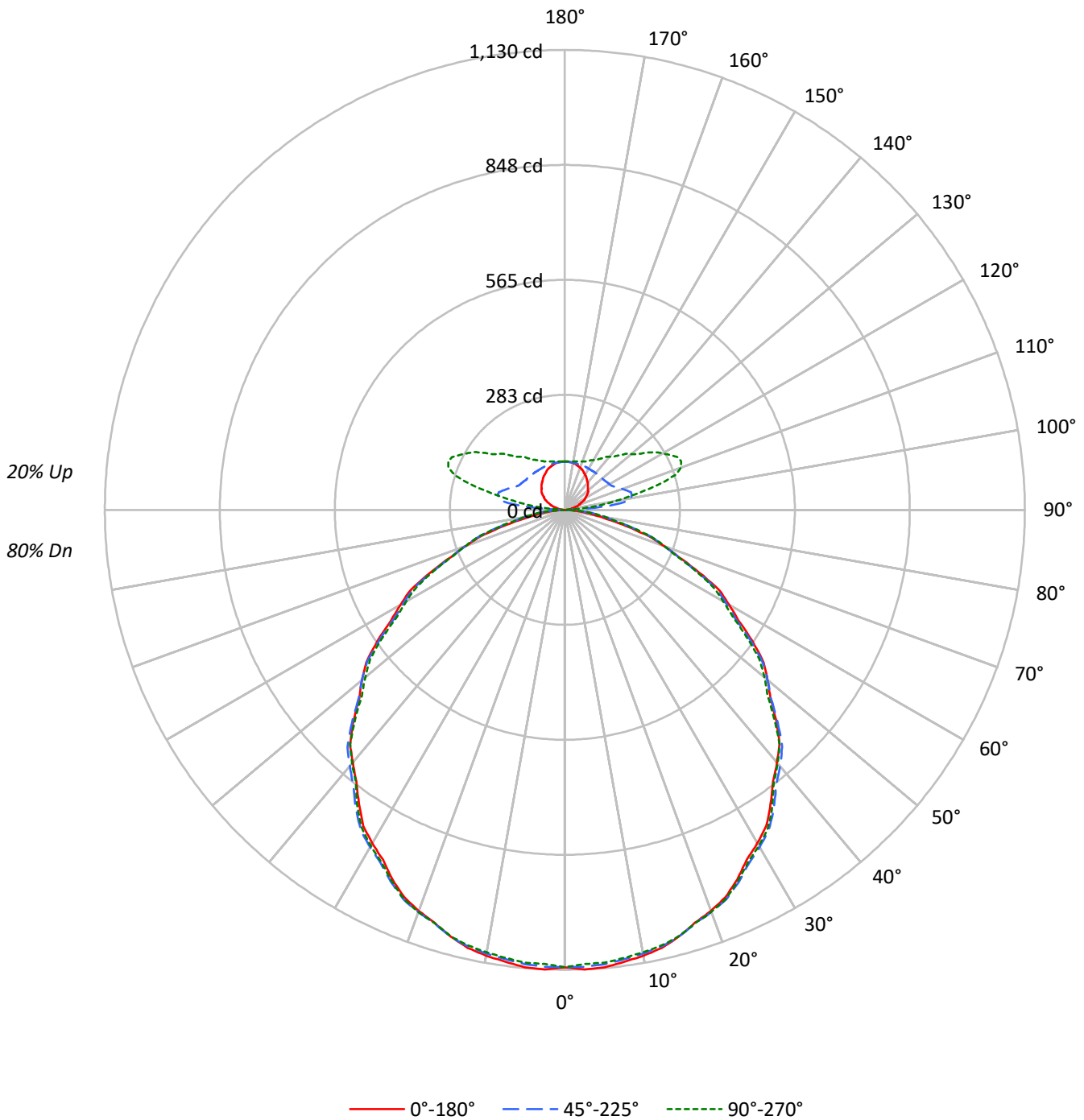
Lumens per Lamp: N/A  
Luminaire Lumens: 3836.1 lumens  
Efficiency: N/A  
Efficacy: 99.1 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 38.7  
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	114	114	114	114	109	109	109	109	100	100	100	91	91	91	84	84	84	80
1	105	100	96	92	100	96	92	89	88	85	83	81	79	77	74	72	71	68
2	95	88	81	76	91	84	78	73	77	73	69	71	67	64	65	62	60	57
3	87	77	69	63	83	74	67	61	68	62	58	63	58	54	58	54	51	48
4	80	68	60	53	76	66	58	52	61	54	49	56	51	46	52	47	44	41
5	73	61	52	46	70	59	51	45	54	48	43	50	45	40	46	42	38	36
6	68	55	46	40	64	53	45	39	49	42	37	45	40	35	42	37	34	31
7	63	50	41	35	60	48	40	34	45	38	33	41	36	31	38	34	30	28
8	58	45	37	31	56	44	36	31	41	34	29	38	32	28	35	30	27	25
9	54	41	33	28	52	40	33	28	37	31	26	35	29	25	33	28	24	22
10	51	38	30	25	49	37	30	25	35	28	24	32	27	23	30	25	22	20

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

	0°	45°	90°
0°	10367	10367	10367
5°	10446	10378	10339
10°	10421	10372	10342
15°	10365	10365	10356
20°	10297	10328	10328
25°	10200	10275	10242
30°	10076	10198	10154
35°	9926	10078	10008
40°	9762	9900	9799
45°	9585	9653	9503
50°	9334	9334	9185
55°	9038	8921	8786
60°	8601	8429	8294
65°	7951	7792	7724
70°	6960	7016	6989
75°	5600	6196	6231
80°	3980	5249	5308
85°	2424	4404	4404



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	106.3	2.8
10°-20°	305.2	8.0
20°-30°	462.2	12.0
30°-40°	554.1	14.4
40°-50°	565.0	14.7
50°-60°	493.2	12.9
60°-70°	353.1	9.2
70°-80°	181.9	4.7
80°-90°	46.6	1.2
90°-100°	57.8	1.5
100°-110°	151.9	4.0
110°-120°	157.6	4.1
120°-130°	126.4	3.3
130°-140°	99.2	2.6
140°-150°	76.1	2.0
150°-160°	54.8	1.4
160°-170°	33.5	0.9
170°-180°	11.3	0.3
0°-30°	873.7	22.8
0°-40°	1427.8	37.2
0°-60°	2485.9	64.8
0°-90°	3067.5	80.0
90°-120°	367.3	9.6
90°-150°	669.0	17.4
90°-180°	769.0	20.0
0°-180°	3836.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1124	1124	1124	1124	1124	
5°	1128	1117	1121	1117	1116	107
15°	1085	1076	1085	1085	1084	306
25°	1002	995	1009	1006	1006	461
35°	881	879	895	889	889	551
45°	735	732	740	730	728	565
55°	562	555	555	546	546	501
65°	364	356	357	354	354	360
75°	157	164	174	175	175	170
85°	23	35	42	43	42	31
90°	1	2	6	3	3	2
95°	8	30	100	51	35	8
105°	27	42	168	255	238	29
115°	49	59	135	268	306	48
125°	68	76	122	207	244	60
135°	81	89	119	167	189	62
145°	94	99	117	142	154	59
155°	106	109	117	129	132	49
165°	114	116	117	122	123	32
175°	119	119	118	119	119	11
180°	119	119	119	119	119	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1123.7	1123.7	1123.7	1123.7	1123.7
2.5°	1130.4	1120.6	1123.7	1121.1	1117.0
5°	1127.9	1116.7	1120.6	1117.4	1116.4
7.5°	1119.8	1108.6	1113.7	1111.6	1110.6
10°	1112.3	1101.1	1107.1	1105.0	1103.9
12.5°	1102.3	1091.9	1098.7	1096.7	1096.4
15°	1085.2	1076.1	1085.2	1085.2	1084.2
17.5°	1063.8	1055.4	1065.2	1065.8	1065.2
20°	1048.8	1039.6	1051.9	1050.9	1051.9
22.5°	1030.5	1023.0	1036.1	1033.4	1034.4
25°	1002.0	994.9	1009.3	1006.1	1006.1
27.5°	968.3	963.2	978.9	975.5	975.5
30°	945.8	940.7	957.2	953.1	953.1
32.5°	920.8	917.4	933.1	928.1	928.1
35°	881.3	879.2	894.8	888.6	888.6
37.5°	840.5	838.7	852.8	845.2	842.8
40°	810.5	809.5	822.0	813.6	813.6
42.5°	780.6	779.5	790.3	780.4	780.4
45°	734.6	732.5	739.8	730.4	728.3
47.5°	684.4	682.4	686.9	676.7	675.7
50°	650.3	648.3	650.3	640.9	639.9
52.5°	615.3	611.7	612.0	602.6	602.4
55°	561.9	554.7	554.6	546.2	546.2
57.5°	505.3	495.9	496.7	489.6	488.6
60°	466.1	456.0	456.8	450.5	449.5
62.5°	427.8	416.0	418.5	411.4	411.2
65°	364.2	356.0	356.9	353.8	353.8
67.5°	303.0	295.5	300.9	298.4	298.2
70°	258.0	252.9	260.1	260.1	259.1
72.5°	216.4	216.2	225.2	225.2	225.8
75°	157.1	164.2	173.8	174.8	174.8
77.5°	104.9	117.5	128.0	128.4	128.2
80°	74.9	89.2	98.8	100.9	99.9
82.5°	50.8	65.8	73.9	75.9	74.9
85°	22.9	35.1	41.6	42.6	41.6
87.5°	6.8	14.4	17.9	17.2	15.6
90°	0.8	2.2	6.1	3.0	3.0
92.5°	3.2	15.4	34.1	15.1	9.7
95°	7.6	29.9	99.6	51.3	35.0
97.5°	13.2	32.8	149.0	118.5	87.3
100°	17.5	35.3	164.2	166.4	129.2
102.5°	21.1	37.8	168.5	207.3	175.4
105°	27.4	41.5	168.0	255.0	237.9
107.5°	33.8	46.8	158.4	279.8	284.0
110°	38.0	49.9	150.5	286.2	304.1

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CATALOG NUMBER: SQ4-PC3-025U-100D-930-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	42.3	53.6	143.2	282.2	309.5
115°	48.7	59.1	134.6	268.4	306.4
117.5°	54.9	64.4	128.6	249.4	291.5
120°	58.5	67.5	126.2	236.6	277.5
122.5°	62.2	71.1	124.4	223.8	264.1
125°	67.7	75.8	122.4	206.9	244.0
127.5°	72.1	80.4	120.7	193.2	224.6
130°	74.5	83.4	120.1	184.6	213.6
132.5°	76.9	85.8	119.5	177.3	203.3
135°	80.6	88.8	118.6	167.0	189.3
137.5°	84.4	92.4	118.4	159.3	177.6
140°	87.4	94.9	117.8	153.2	170.3
142.5°	89.9	96.7	117.8	148.9	163.6
145°	93.5	99.4	117.1	142.4	153.6
147.5°	97.2	102.9	117.1	137.0	146.3
150°	99.6	104.8	117.1	134.0	141.4
152.5°	102.0	106.0	117.1	131.5	137.1
155°	105.7	108.6	117.1	128.6	132.3
157.5°	108.4	111.2	117.1	125.9	128.6
160°	110.2	112.5	117.1	124.7	126.2
162.5°	112.0	113.7	117.1	123.5	125.0
165°	114.0	115.5	117.1	121.7	123.1
167.5°	115.9	116.6	117.8	120.9	121.5
170°	117.1	117.8	117.8	120.9	120.9
172.5°	117.7	117.8	117.8	120.2	119.7
175°	118.6	118.6	117.8	119.3	119.3
177.5°	118.6	118.6	118.0	119.2	118.6
180°	118.6	118.6	118.6	118.6	118.6

(END OF REPORT)