

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: P562662

Luminaire Tested: **SQ4-PC3-050U-100D-930-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562662  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-PC3-050U-100D-930-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

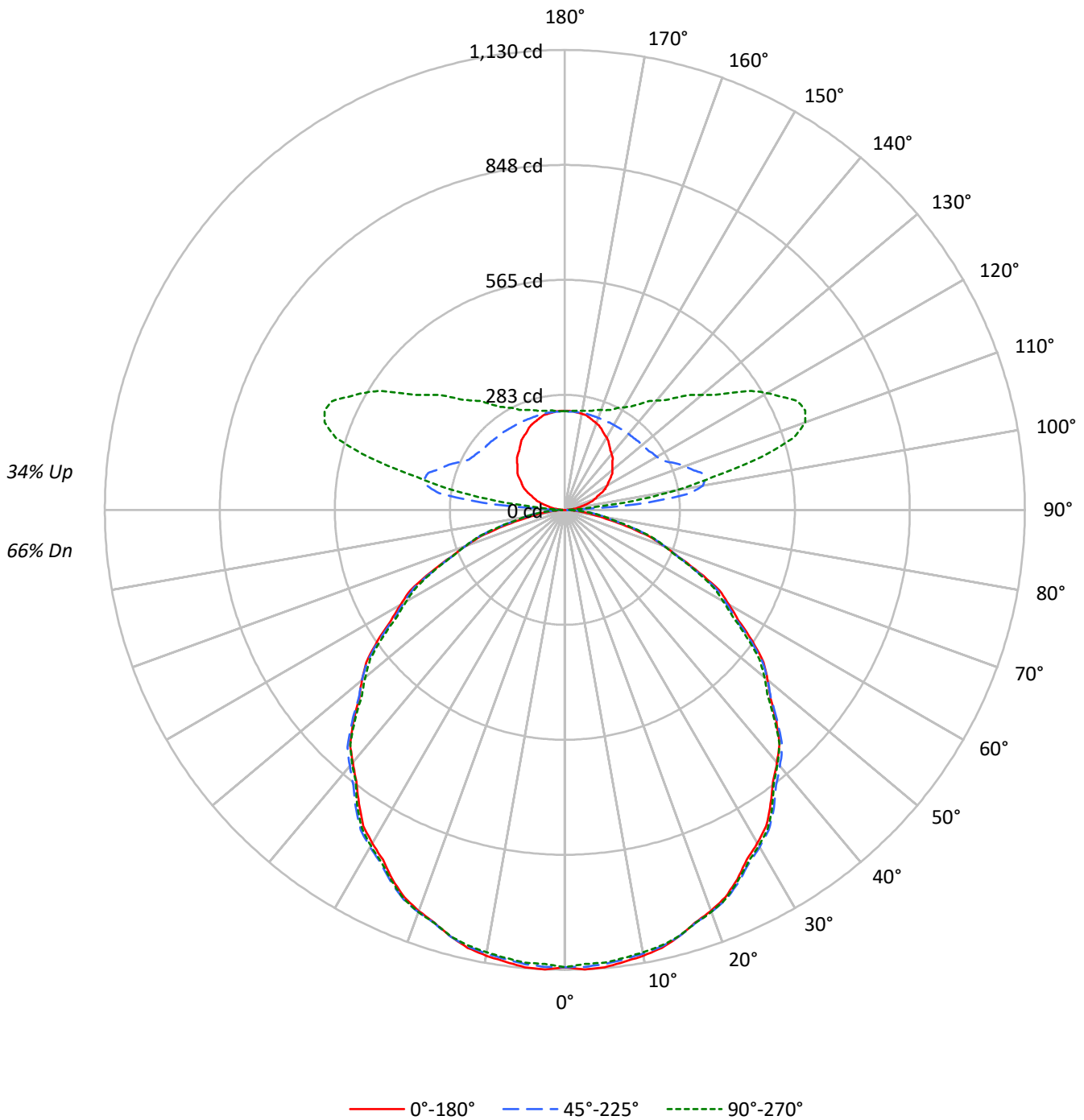
Lumens per Lamp: N/A  
Luminaire Lumens: 4652.8 lumens  
Efficiency: N/A  
Efficacy: 103.2 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 45.1  
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	111	111	111	111	104	104	104	104	92	92	92	81	81	81	71	71	71	66
1	101	97	93	90	95	91	88	85	81	78	76	72	70	68	63	61	60	56
2	92	85	78	73	87	80	74	70	71	67	63	63	60	57	55	53	51	47
3	84	75	67	61	79	70	64	58	63	57	53	56	51	48	49	46	43	39
4	77	66	58	52	72	62	55	49	56	50	45	49	45	41	44	40	37	34
5	71	59	50	44	66	56	48	42	50	44	39	44	39	36	39	35	32	29
6	65	53	44	38	61	50	43	37	45	39	34	40	35	31	36	32	28	26
7	60	48	40	34	57	45	38	33	41	35	30	37	31	28	32	28	25	23
8	56	43	35	30	53	41	34	29	37	31	27	33	28	25	30	26	22	20
9	52	40	32	27	49	38	31	26	34	28	24	31	26	22	28	23	20	18
10	49	36	29	24	46	35	28	23	32	26	22	28	23	20	26	21	18	17

**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	2.3
10°-20°	305.2	6.6
20°-30°	462.2	9.9
30°-40°	554.1	11.9
40°-50°	565.0	12.1
50°-60°	493.2	10.6
60°-70°	353.1	7.6
70°-80°	181.9	3.9
80°-90°	46.9	1.0
90°-100°	116.5	2.5
100°-110°	316.6	6.8
110°-120°	325.5	7.0
120°-130°	260.2	5.6
130°-140°	204.5	4.4
140°-150°	156.8	3.4
150°-160°	112.8	2.4
160°-170°	69.0	1.5
170°-180°	23.2	0.5
0°-30°	873.7	18.8
0°-40°	1427.8	30.7
0°-60°	2485.9	53.4
0°-90°	3067.8	65.9
90°-120°	758.6	16.3
90°-150°	1380.1	29.7
90°-180°	1585.0	34.1
0°-180°	4652.8	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	3	6	7	7	2
95°	17	64	203	88	59	18
105°	56	88	348	530	499	60
115°	100	121	279	554	632	99
125°	137	156	252	425	501	122
135°	166	184	245	346	390	128
145°	191	205	242	294	316	120
155°	216	224	240	264	272	100
165°	234	237	241	251	252	66
175°	243	244	242	245	244	23
180°	243	243	243	243	243	

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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	14.6	17.7	18.0	16.4
90°	0.8	3.1	5.5	7.0	7.0
92.5°	7.0	31.9	55.4	23.8	20.1
95°	17.2	63.7	203.0	88.3	59.3
97.5°	28.4	70.4	311.1	242.1	170.0
100°	35.9	74.8	344.2	349.0	281.8
102.5°	43.4	79.3	353.0	431.6	372.3
105°	56.2	87.5	348.1	530.1	498.8
107.5°	69.5	97.1	328.0	581.0	589.7
110°	78.8	104.0	313.0	591.0	628.4

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	87.0	110.9	298.0	582.7	639.0
115°	99.9	121.3	278.7	554.4	631.5
117.5°	112.1	132.5	266.3	514.4	601.2
120°	120.2	140.1	260.7	487.5	573.7
122.5°	127.1	146.9	257.0	460.6	543.8
125°	137.4	156.5	252.1	424.8	501.1
127.5°	146.6	165.5	249.5	397.7	463.2
130°	152.2	170.5	248.2	380.7	439.5
132.5°	157.8	176.2	247.0	366.2	418.2
135°	165.5	183.8	245.1	346.0	390.3
137.5°	173.8	190.4	244.2	328.2	365.5
140°	178.8	194.8	243.5	316.9	350.5
142.5°	183.8	198.6	242.9	308.0	336.1
145°	191.2	205.0	242.0	294.0	316.1
147.5°	199.7	211.4	241.2	283.0	300.4
150°	205.3	215.2	241.2	276.6	290.4
152.5°	209.7	218.4	240.6	271.0	282.3
155°	216.2	223.9	240.4	264.0	271.6
157.5°	222.6	228.6	240.4	259.3	265.1
160°	226.4	231.7	240.4	256.1	260.7
162.5°	230.1	234.2	241.0	253.6	257.0
165°	234.2	237.2	241.2	251.4	252.1
167.5°	238.4	239.9	242.0	248.7	249.3
170°	239.6	241.2	242.0	247.4	247.4
172.5°	240.9	241.8	242.0	246.2	246.2
175°	242.8	243.5	242.0	245.1	244.3
177.5°	243.4	243.4	241.5	244.0	242.8
180°	242.8	242.8	242.8	242.8	242.8

(END OF REPORT)