

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: P561504

Luminaire Tested: **SQ4-PC3-050U-125D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P561504  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, 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-125D-92765-1D-UNV-STD-W-4 (2700K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

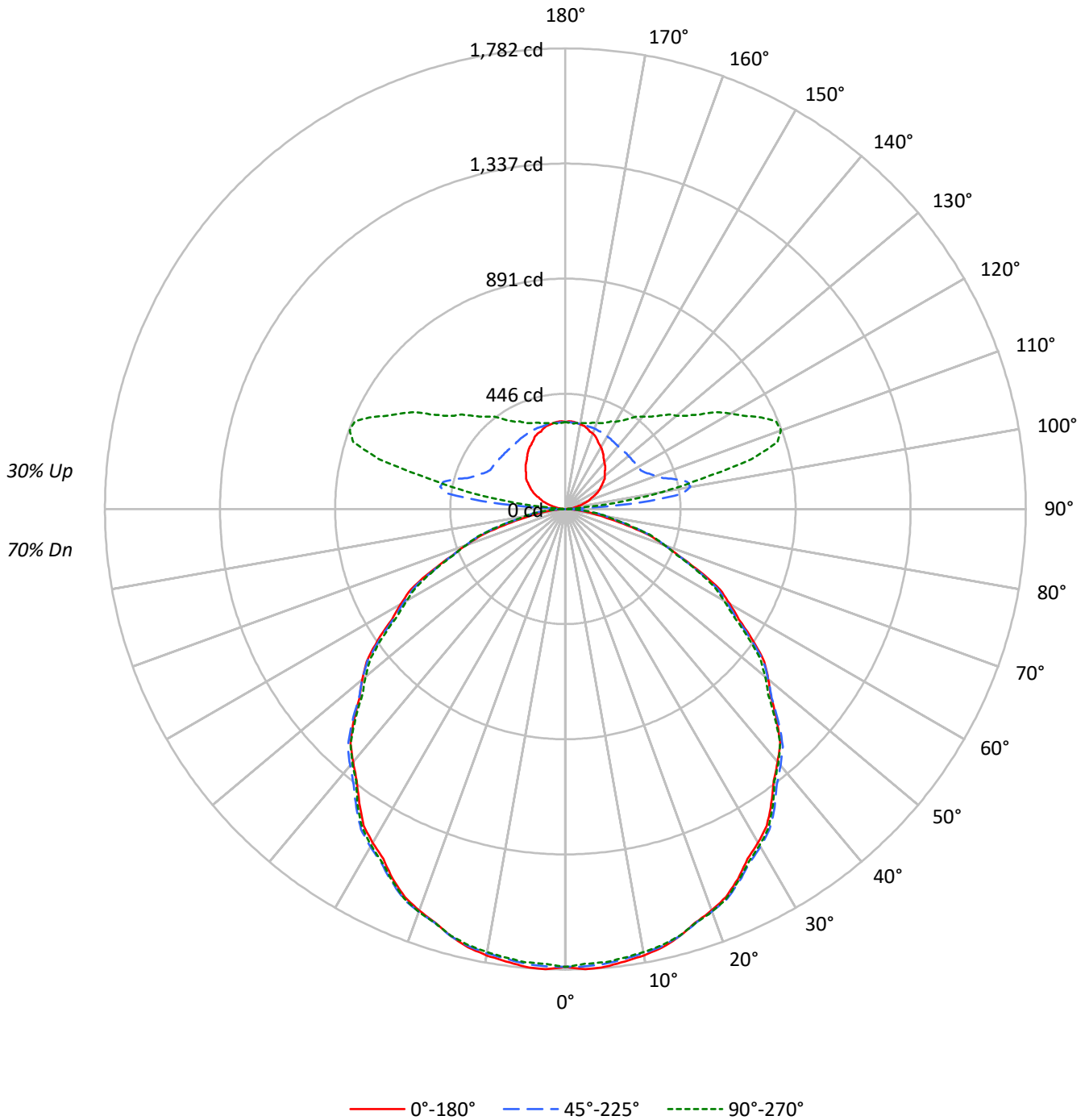
Lumens per Lamp: N/A  
Luminaire Lumens: 6923.8 lumens  
Efficiency: N/A  
Efficacy: 97.0 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 71.4  
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	112	112	112	112	106	106	106	106	94	94	94	84	84	84	74	74	74	70
1	102	98	94	90	97	93	89	86	83	80	78	74	72	70	66	64	63	59
2	93	86	79	74	88	81	75	71	73	68	65	65	62	59	58	55	53	49
3	85	75	68	62	80	71	65	59	64	59	54	58	53	50	51	48	45	42
4	78	67	58	52	73	63	56	50	57	51	46	51	46	43	46	42	39	36
5	71	59	51	45	67	57	49	43	51	45	40	46	41	37	41	37	34	31
6	66	53	45	39	62	51	43	38	46	40	35	42	36	32	37	33	30	27
7	61	48	40	34	58	46	38	33	42	35	31	38	33	29	34	30	26	24
8	57	44	36	30	53	42	35	29	38	32	27	35	29	26	31	27	24	21
9	53	40	32	27	50	38	31	26	35	29	25	32	27	23	29	25	21	19
10	49	37	29	24	47	35	28	24	32	26	22	30	24	21	27	23	19	18

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

	0°	45°	90°
0°	16347	16347	16347
5°	16470	16363	16303
10°	16430	16353	16307
15°	16344	16344	16328
20°	16236	16285	16285
25°	16082	16199	16150
30°	15887	16079	16009
35°	15650	15891	15780
40°	15392	15609	15451
45°	15112	15219	14984
50°	14717	14717	14481
55°	14250	14065	13854
60°	13563	13289	13077
65°	12535	12284	12177
70°	10976	11063	11020
75°	8830	9767	9824
80°	6275	8278	8368
85°	3822	6944	6944



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	167.7	2.4
10°-20°	481.2	6.9
20°-30°	728.7	10.5
30°-40°	873.6	12.6
40°-50°	890.8	12.9
50°-60°	777.6	11.2
60°-70°	556.7	8.0
70°-80°	286.7	4.1
80°-90°	72.5	1.0
90°-100°	153.2	2.2
100°-110°	435.9	6.3
110°-120°	417.6	6.0
120°-130°	330.5	4.8
130°-140°	265.3	3.8
140°-150°	207.7	3.0
150°-160°	152.0	2.2
160°-170°	94.1	1.4
170°-180°	31.9	0.5
0°-30°	1377.6	19.9
0°-40°	2251.2	32.5
0°-60°	3919.6	56.6
0°-90°	4835.5	69.8
90°-120°	1006.7	14.5
90°-150°	1810.2	26.1
90°-180°	2088.0	30.2
0°-180°	6923.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1772	1772	1772	1772	1772	
5°	1778	1761	1767	1762	1760	169
15°	1711	1697	1711	1711	1709	482
25°	1580	1569	1591	1586	1586	727
35°	1390	1386	1411	1401	1401	869
45°	1158	1155	1166	1152	1148	892
55°	886	875	874	861	861	790
65°	574	561	563	558	558	568
75°	248	259	274	276	276	268
85°	36	55	66	67	66	49
90°	0	0	0	0	0	2
95°	17	66	297	103	63	19
105°	68	103	444	785	746	72
115°	126	152	337	714	838	124
125°	178	197	322	534	638	159
135°	217	235	318	451	509	168
145°	256	269	320	390	425	160
155°	293	300	328	352	367	135
165°	323	325	332	339	344	91
175°	339	337	336	334	331	32
180°	336	336	336	336	336	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1771.8	1771.8	1771.8	1771.8	1771.8
2.5°	1782.3	1766.9	1771.8	1767.7	1761.3
5°	1778.3	1760.7	1766.8	1761.9	1760.3
7.5°	1765.5	1747.9	1756.0	1752.7	1751.1
10°	1753.7	1736.1	1745.5	1742.2	1740.6
12.5°	1738.0	1721.6	1732.4	1729.1	1728.8
15°	1711.1	1696.6	1711.1	1711.0	1709.4
17.5°	1677.3	1664.1	1679.6	1680.5	1679.6
20°	1653.6	1639.2	1658.6	1657.0	1658.6
22.5°	1624.8	1612.9	1633.6	1629.4	1631.0
25°	1579.8	1568.6	1591.3	1586.4	1586.4
27.5°	1526.7	1518.7	1543.4	1538.2	1538.2
30°	1491.2	1483.2	1509.3	1502.7	1502.7
32.5°	1451.9	1446.4	1471.2	1463.3	1463.3
35°	1389.5	1386.3	1410.9	1401.0	1401.0
37.5°	1325.2	1322.3	1344.6	1332.7	1328.8
40°	1278.0	1276.4	1296.0	1282.9	1282.9
42.5°	1230.7	1229.1	1246.1	1230.4	1230.4
45°	1158.2	1155.0	1166.4	1151.6	1148.4
47.5°	1079.1	1075.9	1083.1	1067.0	1065.4
50°	1025.3	1022.1	1025.3	1010.5	1008.9
52.5°	970.2	964.4	965.0	950.2	949.9
55°	885.9	874.7	874.4	861.3	861.3
57.5°	796.6	781.9	783.2	772.0	770.4
60°	735.0	718.9	720.2	710.3	708.7
62.5°	674.6	656.0	659.8	648.7	648.3
65°	574.2	561.4	562.7	557.8	557.8
67.5°	477.7	465.9	474.4	470.5	470.2
70°	406.9	398.8	410.1	410.1	408.5
72.5°	341.2	340.9	355.0	355.0	356.0
75°	247.7	258.9	274.0	275.6	275.6
77.5°	165.4	185.3	201.8	202.4	202.1
80°	118.1	140.6	155.8	159.1	157.5
82.5°	80.1	103.8	116.5	119.7	118.1
85°	36.1	55.3	65.6	67.2	65.6
87.5°	10.5	22.0	26.2	26.2	23.6
90°	0.0	0.0	0.0	0.0	0.0
92.5°	5.1	27.1	62.9	18.3	13.8
95°	16.6	66.0	296.6	102.6	63.3
97.5°	30.6	77.3	456.7	326.8	224.0
100°	40.3	84.0	491.5	497.8	383.5
102.5°	51.0	91.2	483.8	637.3	537.4
105°	67.7	102.7	444.2	784.6	745.9
107.5°	84.8	116.1	397.9	826.2	860.7
110°	96.5	125.9	371.3	810.3	887.8

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	107.8	135.6	353.4	772.7	883.2
115°	125.9	152.2	336.8	713.6	837.9
117.5°	141.9	166.5	327.0	648.9	780.6
120°	154.7	175.3	326.0	612.0	738.2
122.5°	164.9	185.5	323.4	579.6	696.8
125°	177.7	197.1	321.5	533.5	637.9
127.5°	191.6	209.7	320.5	506.0	592.0
130°	198.8	216.9	318.9	486.8	561.8
132.5°	206.4	224.1	318.9	471.8	540.8
135°	217.3	235.4	317.7	450.7	509.4
137.5°	227.5	245.2	317.5	432.7	483.4
140°	235.2	253.3	317.0	417.8	466.6
142.5°	243.9	259.0	318.5	406.0	449.7
145°	256.3	269.4	320.2	390.0	425.0
147.5°	266.9	279.7	323.0	373.9	404.2
150°	276.1	284.9	324.0	368.6	389.9
152.5°	283.3	292.5	325.1	361.4	381.2
155°	292.7	299.6	327.9	352.5	366.9
157.5°	304.5	308.6	328.5	348.4	358.7
160°	310.6	313.7	331.1	345.3	354.1
162.5°	314.2	317.8	331.6	342.7	349.5
165°	323.4	324.7	331.7	338.9	343.9
167.5°	329.7	328.5	334.7	337.9	339.9
170°	331.7	331.1	333.6	334.3	336.8
172.5°	336.3	334.2	335.2	333.3	335.3
175°	338.7	336.9	335.5	333.6	331.1
177.5°	339.8	336.8	335.2	333.1	333.6
180°	336.2	336.2	336.2	336.2	336.2

(END OF REPORT)