

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: P564679

Luminaire Tested: **SQ4-PW1-050U-100D-930-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564679  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, G2-2106-289-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PW1-050U-100D-930-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

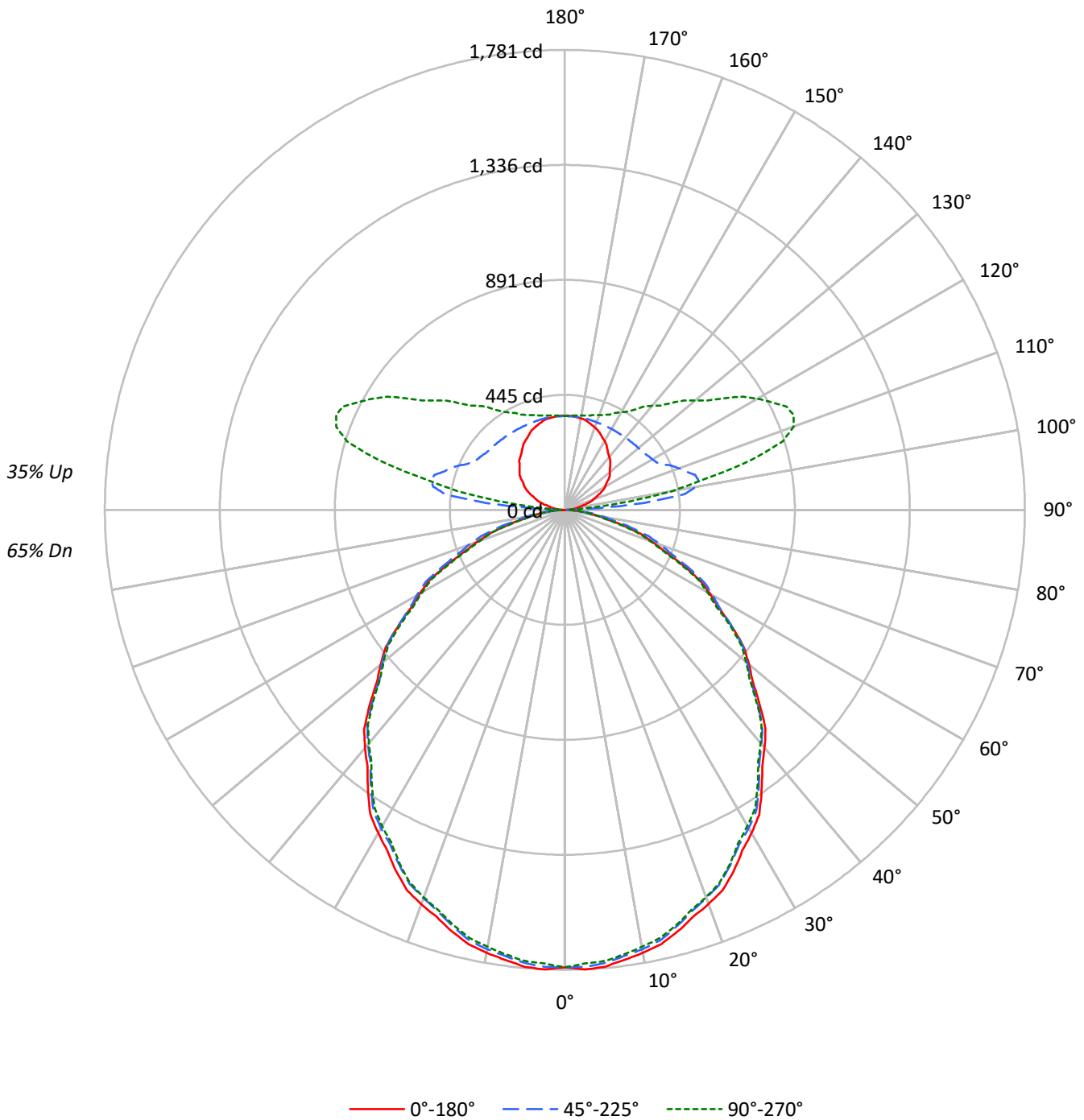
Lumens per Lamp: N/A  
Luminaire Lumens: 6885.9 lumens  
Efficiency: N/A  
Efficacy: 93.8 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 73.4  
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	111	111	111	111	104	104	104	104	92	92	92	81	81	81	70	70	70	65
1	101	97	93	90	95	91	88	85	81	78	76	71	69	68	62	61	60	55
2	92	85	79	73	87	80	75	70	71	67	63	63	59	57	55	53	50	47
3	84	75	67	61	79	71	64	59	63	58	53	56	51	48	49	46	43	40
4	77	66	58	52	72	63	55	50	56	50	45	50	45	41	44	40	37	34
5	71	59	51	45	67	56	48	43	50	44	39	45	40	36	39	36	32	30
6	66	53	45	39	61	50	43	37	45	39	34	40	35	31	36	32	29	26
7	61	48	40	34	57	46	38	33	41	35	30	37	32	28	33	29	25	23
8	56	44	36	30	53	42	34	29	38	31	27	34	29	25	30	26	23	21
9	53	40	32	27	49	38	31	26	34	29	24	31	26	22	28	24	21	19
10	49	37	29	24	46	35	28	24	32	26	22	29	24	20	26	22	19	17

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

	0°	45°	90°
0°	10896	10896	10896
5°	10966	10879	10831
10°	10878	10791	10732
15°	10763	10644	10604
20°	10635	10471	10451
25°	10486	10295	10263
30°	10264	10109	10043
35°	9973	9832	9773
40°	9662	9512	9474
45°	9286	9164	9123
50°	8901	8826	8766
55°	8486	8486	8352
60°	7968	8122	7834
65°	7292	7655	7110
70°	6427	7044	6258
75°	5490	6305	5340
80°	4258	5306	4311
85°	2752	4072	3634



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	166.8	2.4
10°-20°	470.9	6.8
20°-30°	698.6	10.1
30°-40°	817.4	11.9
40°-50°	813.7	11.8
50°-60°	702.7	10.2
60°-70°	505.8	7.3
70°-80°	265.2	3.9
80°-90°	67.2	1.0
90°-100°	174.8	2.5
100°-110°	474.9	6.9
110°-120°	488.2	7.1
120°-130°	390.4	5.7
130°-140°	306.7	4.5
140°-150°	235.2	3.4
150°-160°	169.1	2.5
160°-170°	103.4	1.5
170°-180°	34.8	0.5
0°-30°	1336.3	19.4
0°-40°	2153.7	31.3
0°-60°	3670.1	53.3
0°-90°	4508.3	65.5
90°-120°	1137.9	16.5
90°-150°	2070.2	30.1
90°-180°	2378.0	34.5
0°-180°	6885.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1771	1771	1771	1771	1771	
5°	1776	1756	1762	1757	1754	168
15°	1690	1669	1672	1668	1665	476
25°	1545	1519	1517	1508	1512	710
35°	1328	1310	1309	1297	1302	830
45°	1068	1058	1054	1050	1049	824
55°	791	790	791	780	779	706
65°	501	516	526	505	488	496
75°	231	252	265	248	225	248
85°	39	51	58	55	52	51
90°	1	5	8	10	10	3
95°	26	96	304	132	89	27
105°	84	131	522	795	748	90
115°	150	182	418	832	947	148
125°	206	235	378	637	752	184
135°	248	276	368	519	585	192
145°	287	308	363	441	474	180
155°	324	336	361	396	408	150
165°	351	356	362	377	378	99
175°	364	365	363	368	366	35
180°	364	364	364	364	364	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1771.4	1771.4	1771.4	1771.4	1771.4
2.5°	1781.4	1766.7	1771.4	1767.5	1758.9
5°	1776.1	1756.2	1762.0	1757.3	1754.2
7.5°	1758.0	1739.7	1743.9	1738.9	1737.1
10°	1741.7	1723.4	1727.7	1721.4	1718.3
12.5°	1723.0	1703.5	1707.7	1701.4	1699.6
15°	1690.2	1668.9	1671.5	1668.3	1665.3
17.5°	1652.2	1630.5	1630.9	1625.9	1625.3
20°	1624.7	1601.8	1599.7	1593.6	1596.6
22.5°	1594.7	1570.6	1568.5	1559.9	1564.1
25°	1545.1	1519.2	1517.0	1507.7	1512.3
27.5°	1487.7	1462.0	1462.1	1449.1	1454.0
30°	1445.2	1420.8	1423.4	1407.9	1414.0
32.5°	1400.3	1378.3	1379.7	1364.2	1370.3
35°	1328.2	1309.8	1309.4	1297.1	1301.6
37.5°	1254.5	1238.3	1235.8	1228.6	1229.8
40°	1203.3	1189.6	1184.6	1179.9	1179.9
42.5°	1149.6	1137.1	1132.1	1128.7	1127.5
45°	1067.5	1058.4	1053.5	1050.3	1048.8
47.5°	986.4	977.8	973.6	971.3	969.8
50°	930.2	924.1	922.4	917.7	916.1
52.5°	874.0	870.3	868.7	862.7	861.2
55°	791.3	789.8	791.3	780.3	778.8
57.5°	705.1	707.6	712.6	697.9	694.2
60°	647.7	653.8	660.2	642.9	636.8
62.5°	589.0	598.8	607.7	587.9	579.3
65°	501.0	516.2	526.0	505.3	488.5
67.5°	416.1	435.0	446.7	424.4	405.5
70°	357.4	378.8	391.7	369.4	348.0
72.5°	306.2	330.0	340.5	319.5	298.1
75°	231.0	252.3	265.3	247.6	224.7
77.5°	163.9	184.0	194.8	179.4	160.4
80°	120.2	141.5	149.8	137.0	121.7
82.5°	85.2	102.9	108.6	100.9	90.5
85°	39.0	51.2	57.7	54.6	51.5
87.5°	10.2	19.5	25.4	25.9	27.1
90°	1.2	4.6	8.2	10.5	10.5
92.5°	10.5	47.9	83.1	35.7	30.2
95°	25.8	95.6	304.4	132.5	89.0
97.5°	42.6	105.6	466.7	363.1	255.0
100°	53.9	112.2	516.4	523.4	422.7
102.5°	65.1	118.9	529.5	647.4	558.5
105°	84.3	131.2	522.2	795.1	748.2
107.5°	104.2	145.7	492.0	871.4	884.5
110°	118.3	156.0	469.5	886.5	942.6

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	130.4	166.4	447.0	874.0	958.5
115°	149.9	181.9	418.0	831.6	947.2
117.5°	168.1	198.8	399.5	771.5	901.8
120°	180.3	210.1	391.1	731.2	860.6
122.5°	190.6	220.4	385.5	690.9	815.6
125°	206.1	234.7	378.2	637.2	751.7
127.5°	219.9	248.3	374.2	596.6	694.8
130°	228.3	255.8	372.3	571.1	659.2
132.5°	236.8	264.2	370.5	549.3	627.4
135°	248.2	275.7	367.7	519.0	585.4
137.5°	260.6	285.6	366.3	492.3	548.2
140°	268.1	292.2	365.3	475.4	525.7
142.5°	275.6	297.8	364.4	462.1	504.2
145°	286.9	307.5	363.0	441.0	474.2
147.5°	299.5	317.1	361.8	424.5	450.6
150°	307.9	322.8	361.8	415.0	435.6
152.5°	314.5	327.6	360.9	406.4	423.4
155°	324.3	335.8	360.6	396.0	407.5
157.5°	333.9	342.9	360.6	388.9	397.6
160°	339.6	347.6	360.6	384.2	391.1
162.5°	345.2	351.4	361.6	380.4	385.5
165°	351.3	355.8	361.8	377.1	378.2
167.5°	357.6	359.9	363.0	373.1	374.0
170°	359.5	361.8	363.0	371.2	371.2
172.5°	361.3	362.7	363.0	369.3	369.3
175°	364.1	365.3	363.0	367.6	366.5
177.5°	365.1	365.1	362.3	366.0	364.1
180°	364.1	364.1	364.1	364.1	364.1

(END OF REPORT)