

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: P562029

Luminaire Tested: **SQ4-PR1-100U-125D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562029  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PR1-100U-125D-92765-1D-UNV-STD-W-4 (5000K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9780.9 lumens  
Efficiency: N/A  
Efficacy: 111.1 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

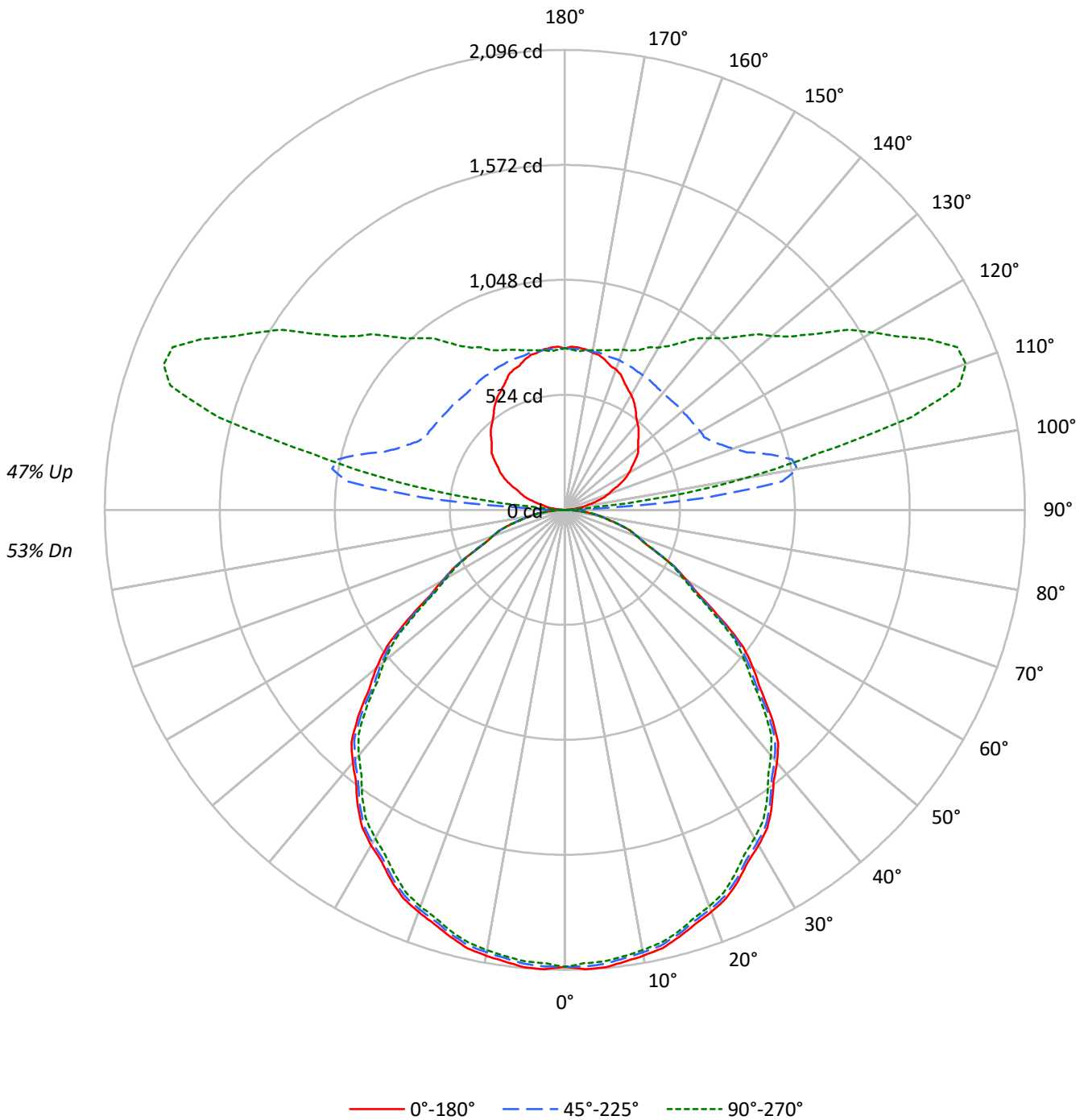
Input Watts (W): 88  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	108	108	108	108	100	100	100	100	85	85	85	72	72	72	59	59	59	53
1	99	95	91	87	91	88	85	82	75	73	71	63	62	60	53	52	51	45
2	90	83	77	72	83	77	72	67	66	62	59	56	53	51	47	45	43	39
3	83	73	66	60	76	68	62	57	59	54	50	50	46	43	42	39	37	33
4	76	65	57	51	70	61	54	48	52	47	43	45	41	37	37	34	32	29
5	69	58	50	44	64	54	47	42	47	41	37	40	36	32	34	31	28	25
6	64	52	44	38	59	49	42	36	42	37	32	36	32	29	31	27	25	22
7	59	47	39	34	55	44	37	32	38	33	29	33	29	25	28	25	22	20
8	55	43	35	30	51	40	33	28	35	29	25	30	26	23	26	22	20	18
9	51	39	32	27	48	37	30	25	32	27	23	28	24	20	24	20	18	16
10	48	36	29	24	44	34	27	23	30	24	21	26	21	18	22	19	16	14

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

	0°	45°	90°
0°	19215	19215	19215
5°	19388	19239	19139
10°	19327	19192	19091
15°	19242	19122	19019
20°	19145	19022	18881
25°	19010	18883	18663
30°	18806	18671	18404
35°	18528	18366	18103
40°	18106	17911	17587
45°	17368	17063	16712
50°	16067	15681	15371
55°	14023	13706	13417
60°	11817	11717	11487
65°	10221	10261	10182
70°	9388	9436	9436
75°	9015	9015	9079
80°	8485	8575	8485
85°	6838	7601	7601



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	196.9	2.0
10°-20°	563.5	5.8
20°-30°	849.9	8.7
30°-40°	1012.7	10.4
40°-50°	998.4	10.2
50°-60°	763.0	7.8
60°-70°	472.2	4.8
70°-80°	268.2	2.7
80°-90°	81.6	0.8
90°-100°	335.6	3.4
100°-110°	954.8	9.8
110°-120°	914.8	9.4
120°-130°	724.0	7.4
130°-140°	581.1	5.9
140°-150°	455.0	4.7
150°-160°	332.9	3.4
160°-170°	206.2	2.1
170°-180°	70.0	0.7
0°-30°	1610.4	16.5
0°-40°	2623.0	26.8
0°-60°	4384.5	44.8
0°-90°	5206.5	53.2
90°-120°	2205.2	22.5
90°-150°	3965.3	40.5
90°-180°	4574.0	46.8
0°-180°	9780.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2083	2083	2083	2083	2083	
5°	2093	2071	2077	2070	2066	199
15°	2014	1994	2002	1995	1991	568
25°	1867	1845	1855	1835	1833	859
35°	1645	1626	1631	1609	1607	1027
45°	1331	1314	1308	1284	1281	1020
55°	872	858	852	838	834	781
65°	468	465	470	466	466	474
75°	253	253	253	255	255	267
85°	65	68	72	72	72	75
90°	0	0	0	0	0	4
95°	36	144	650	225	139	42
105°	148	225	973	1719	1634	157
115°	276	333	738	1563	1835	272
125°	389	432	704	1169	1397	348
135°	476	516	696	987	1116	367
145°	561	590	701	854	931	351
155°	641	656	718	772	804	296
165°	708	711	727	742	753	199
175°	742	738	735	731	725	70
180°	736	736	736	736	736	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2082.7	2082.7	2082.7	2082.7	2082.7
2.5°	2095.6	2077.4	2082.7	2078.2	2068.3
5°	2093.4	2070.6	2077.3	2070.0	2066.5
7.5°	2077.3	2054.9	2061.5	2054.3	2052.2
10°	2063.0	2041.9	2048.6	2041.3	2037.8
12.5°	2047.2	2024.7	2032.8	2024.1	2020.6
15°	2014.5	1993.5	2002.0	1994.7	1991.2
17.5°	1978.6	1956.2	1964.6	1956.3	1951.7
20°	1949.9	1928.9	1937.4	1924.8	1923.0
22.5°	1918.4	1897.3	1905.8	1888.9	1888.6
25°	1867.4	1844.6	1854.9	1835.1	1833.3
27.5°	1806.8	1785.7	1794.2	1774.1	1772.0
30°	1765.2	1744.1	1752.6	1731.0	1727.5
32.5°	1717.8	1698.2	1705.3	1683.7	1681.6
35°	1645.0	1625.7	1630.6	1609.1	1607.3
37.5°	1562.1	1544.6	1547.4	1523.7	1521.9
40°	1503.3	1485.7	1487.1	1462.0	1460.2
42.5°	1438.7	1421.1	1419.7	1394.5	1392.8
45°	1331.1	1313.5	1307.7	1284.3	1280.8
47.5°	1208.4	1190.8	1180.0	1160.9	1158.5
50°	1119.4	1101.8	1092.5	1076.2	1070.9
52.5°	1023.2	1005.7	997.8	982.9	977.7
55°	871.8	857.8	852.1	837.7	834.1
57.5°	728.0	718.5	716.8	702.8	701.4
60°	640.4	635.1	635.0	622.5	622.5
62.5°	565.8	561.9	564.7	556.4	555.0
65°	468.2	464.7	470.0	466.4	466.4
67.5°	391.1	391.1	394.3	392.9	392.9
70°	348.0	348.0	349.8	349.8	349.8
72.5°	309.3	307.9	312.5	312.5	311.1
75°	252.9	252.9	252.9	254.7	254.7
77.5°	197.0	197.3	198.8	198.4	197.0
80°	159.7	161.4	161.4	159.7	159.7
82.5°	122.3	124.1	124.1	123.7	122.3
85°	64.6	68.1	71.8	71.8	71.8
87.5°	18.7	24.3	28.7	28.7	27.3
90°	0.0	0.0	0.0	0.0	0.0
92.5°	11.2	59.4	137.8	40.1	30.2
95°	36.4	144.5	649.6	224.8	138.6
97.5°	66.9	169.3	1000.5	715.9	490.6
100°	88.2	184.0	1076.6	1090.5	840.0
102.5°	111.7	199.9	1059.8	1395.9	1177.1
105°	148.4	225.1	973.0	1718.7	1633.8
107.5°	185.6	254.4	871.7	1809.7	1885.3
110°	211.4	275.7	813.4	1774.9	1944.6

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	236.0	297.1	774.2	1692.5	1934.6
115°	275.8	333.3	737.8	1563.0	1835.4
117.5°	310.8	364.7	716.3	1421.4	1710.0
120°	338.8	384.0	714.0	1340.5	1617.0
122.5°	361.2	406.4	708.4	1269.5	1526.3
125°	389.2	431.6	704.2	1168.6	1397.2
127.5°	419.7	459.4	702.0	1108.3	1296.7
130°	435.4	475.1	698.6	1066.4	1230.6
132.5°	452.2	490.8	698.6	1033.6	1184.7
135°	476.0	515.7	695.8	987.1	1115.8
137.5°	498.4	537.0	695.5	947.8	1059.0
140°	515.2	554.9	694.4	915.2	1022.0
142.5°	534.3	567.4	697.8	889.2	985.1
145°	561.4	590.2	701.4	854.4	931.0
147.5°	584.7	612.6	707.6	819.1	885.4
150°	604.8	624.0	709.8	807.5	854.0
152.5°	620.5	640.8	712.1	791.7	835.0
155°	641.2	656.3	718.2	772.1	803.6
157.5°	667.0	676.0	719.6	763.2	785.7
160°	680.4	687.3	725.2	756.5	775.6
162.5°	688.3	696.2	726.3	750.8	765.5
165°	708.4	711.2	726.6	742.3	753.2
167.5°	722.1	719.7	733.1	740.2	744.5
170°	726.6	725.2	730.8	732.3	737.8
172.5°	736.7	732.0	734.2	730.1	734.5
175°	742.0	737.9	735.0	730.7	725.2
177.5°	744.3	737.7	734.2	729.7	730.8
180°	736.4	736.4	736.4	736.4	736.4

(END OF REPORT)