

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: P562364

Luminaire Tested: **SQ4-PW1-100U-075D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562364  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, 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-PW1-100U-075D-92765-1D-UNV-STD-W-4 (3500K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

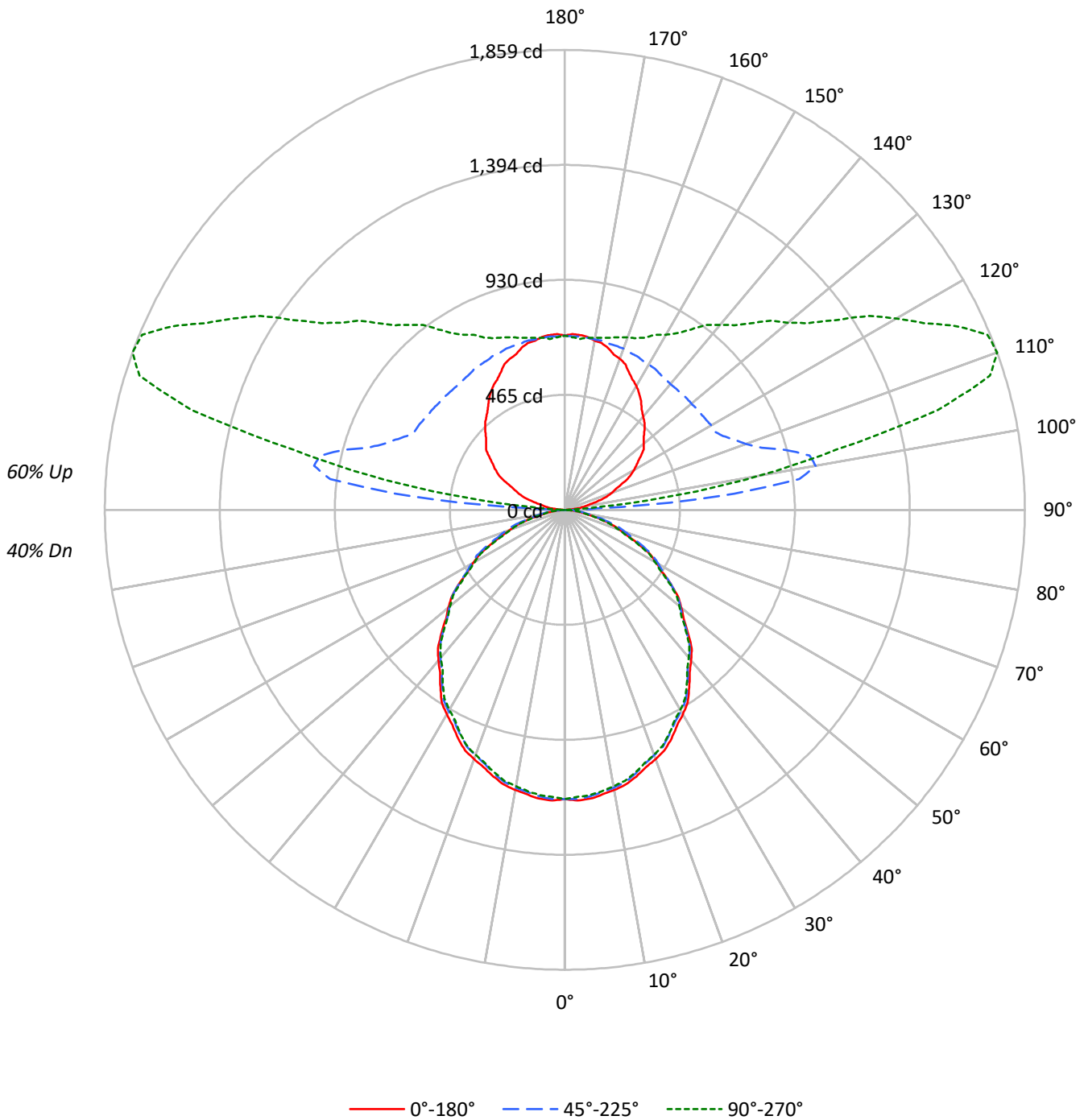
Lumens per Lamp: N/A  
Luminaire Lumens: 7347.7 lumens  
Efficiency: N/A  
Efficacy: 114.3 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 64.3  
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	105	105	105	105	96	96	96	96	78	78	78	62	62	62	47	47	47	40
1	96	92	88	84	87	84	80	77	69	66	64	55	53	52	42	41	40	34
2	87	80	74	69	79	73	68	64	60	56	53	48	46	43	37	35	34	29
3	80	70	63	57	72	64	58	53	53	48	45	43	39	37	33	31	29	24
4	73	62	54	49	66	57	50	45	47	42	38	38	34	31	29	27	25	21
5	67	55	47	42	61	51	44	39	42	37	33	34	30	27	26	24	22	18
6	61	50	42	36	56	46	39	33	38	33	29	31	27	24	24	21	19	16
7	57	45	37	31	52	41	34	29	34	29	25	28	24	21	22	19	17	14
8	53	41	33	28	48	37	31	26	31	26	22	25	22	19	20	17	15	13
9	49	37	30	25	45	34	28	23	29	23	20	23	20	17	19	16	14	11
10	46	34	27	22	42	31	25	21	26	21	18	22	18	15	17	14	12	10

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

	0°	45°	90°
0°	10788	10788	10788
5°	10858	10773	10725
10°	10772	10685	10627
15°	10658	10539	10500
20°	10530	10368	10349
25°	10384	10194	10163
30°	10163	10010	9944
35°	9875	9736	9677
40°	9567	9418	9381
45°	9195	9073	9033
50°	8813	8740	8681
55°	8401	8401	8270
60°	7890	8042	7756
65°	7220	7580	7041
70°	6364	6976	6196
75°	5436	6242	5290
80°	4213	5255	4272
85°	2731	4033	3599



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.1	1.5
10°-20°	310.9	4.2
20°-30°	461.1	6.3
30°-40°	539.6	7.3
40°-50°	537.2	7.3
50°-60°	463.9	6.3
60°-70°	333.9	4.5
70°-80°	175.1	2.4
80°-90°	43.4	0.6
90°-100°	320.7	4.4
100°-110°	912.7	12.4
110°-120°	874.4	11.9
120°-130°	692.1	9.4
130°-140°	555.5	7.6
140°-150°	434.9	5.9
150°-160°	318.2	4.3
160°-170°	197.1	2.7
170°-180°	66.9	0.9
0°-30°	882.1	12.0
0°-40°	1421.7	19.3
0°-60°	2422.7	33.0
0°-90°	2975.1	40.5
90°-120°	2107.9	28.7
90°-150°	3790.4	51.6
90°-180°	4373.0	59.5
0°-180°	7347.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1169	1169	1169	1169	1169	
5°	1172	1159	1163	1160	1158	111
15°	1116	1102	1103	1101	1099	314
25°	1020	1003	1001	995	998	469
35°	877	865	864	856	859	548
45°	705	699	695	693	692	544
55°	522	521	522	515	514	466
65°	331	341	347	334	322	328
75°	152	167	175	164	148	163
85°	26	34	38	36	34	34
90°	0	0	0	0	0	2
95°	35	138	621	215	132	40
105°	142	215	930	1643	1562	150
115°	264	319	705	1494	1754	260
125°	372	413	673	1117	1336	333
135°	455	493	665	944	1067	351
145°	537	564	670	817	890	335
155°	613	627	686	738	768	283
165°	677	680	695	710	720	190
175°	709	705	703	698	693	67
180°	704	704	704	704	704	

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CATALOG NUMBER: SQ4-PW1-100U-075D-92765-1D-UNV-STD-W-4 (3500K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1169.3	1169.3	1169.3	1169.3	1169.3
2.5°	1175.9	1166.3	1169.3	1166.7	1161.1
5°	1172.4	1159.3	1163.2	1160.0	1158.0
7.5°	1160.5	1148.4	1151.2	1147.9	1146.7
10°	1149.8	1137.7	1140.5	1136.3	1134.3
12.5°	1137.4	1124.5	1127.3	1123.2	1122.0
15°	1115.8	1101.7	1103.4	1101.3	1099.3
17.5°	1090.6	1076.3	1076.6	1073.3	1072.9
20°	1072.5	1057.4	1056.0	1051.9	1054.0
22.5°	1052.7	1036.8	1035.4	1029.7	1032.5
25°	1020.0	1002.8	1001.4	995.3	998.3
27.5°	982.0	965.1	965.2	956.6	959.8
30°	954.0	937.9	939.6	929.4	933.4
32.5°	924.4	909.8	910.8	900.5	904.6
35°	876.8	864.7	864.4	856.2	859.2
37.5°	828.1	817.4	815.8	811.0	811.8
40°	794.3	785.3	782.0	778.9	778.9
42.5°	758.9	750.6	747.4	745.1	744.3
45°	704.7	698.7	695.4	693.3	692.3
47.5°	651.1	645.5	642.7	641.2	640.2
50°	614.0	610.0	608.9	605.8	604.8
52.5°	576.9	574.5	573.4	569.5	568.5
55°	522.3	521.3	522.3	515.1	514.1
57.5°	465.5	467.1	470.4	460.7	458.3
60°	427.6	431.6	435.8	424.4	420.3
62.5°	388.8	395.3	401.2	388.1	382.4
65°	330.7	340.8	347.2	333.6	322.5
67.5°	274.7	287.2	294.9	280.2	267.7
70°	235.9	250.0	258.6	243.9	229.7
72.5°	202.1	217.9	224.8	210.9	196.8
75°	152.5	166.6	175.1	163.5	148.4
77.5°	108.2	121.5	128.6	118.4	105.9
80°	79.3	93.4	98.9	90.4	80.4
82.5°	56.3	67.9	71.7	66.6	59.8
85°	25.8	33.8	38.1	36.0	34.0
87.5°	6.6	12.2	15.7	15.7	16.5
90°	0.0	0.0	0.0	0.0	0.0
92.5°	10.7	56.8	131.7	38.3	28.9
95°	34.8	138.2	620.9	214.9	132.5
97.5°	64.0	161.8	956.3	684.3	468.9
100°	84.3	175.9	1029.1	1042.4	802.9
102.5°	106.8	191.1	1013.1	1334.3	1125.2
105°	141.9	215.1	930.1	1642.9	1561.7
107.5°	177.5	243.1	833.2	1729.9	1802.1
110°	202.1	263.6	777.5	1696.6	1858.8

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	225.6	284.0	740.1	1617.8	1849.2
115°	263.6	318.6	705.3	1494.1	1754.4
117.5°	297.1	348.6	684.6	1358.7	1634.5
120°	323.9	367.0	682.5	1281.4	1545.7
122.5°	345.3	388.4	677.2	1213.5	1459.0
125°	372.0	412.6	673.1	1117.1	1335.6
127.5°	401.2	439.2	671.0	1059.4	1239.5
130°	416.2	454.1	667.8	1019.3	1176.3
132.5°	432.3	469.2	667.8	988.0	1132.4
135°	455.0	493.0	665.1	943.6	1066.6
137.5°	476.4	513.3	664.8	906.0	1012.3
140°	492.5	530.4	663.8	874.9	976.9
142.5°	510.7	542.3	667.0	850.0	941.6
145°	536.6	564.1	670.5	816.7	889.9
147.5°	558.9	585.5	676.4	783.0	846.3
150°	578.1	596.4	678.5	771.8	816.3
152.5°	593.1	612.5	680.6	756.8	798.1
155°	612.9	627.3	686.5	738.1	768.2
157.5°	637.5	646.2	687.9	729.6	751.0
160°	650.4	656.9	693.2	723.1	741.4
162.5°	657.9	665.5	694.3	717.6	731.8
165°	677.2	679.8	694.6	709.5	720.0
167.5°	690.3	687.9	700.7	707.5	711.7
170°	694.6	693.2	698.6	700.0	705.3
172.5°	704.2	699.7	701.8	697.9	702.0
175°	709.3	705.3	702.6	698.4	693.2
177.5°	711.4	705.1	701.8	697.5	698.6
180°	703.9	703.9	703.9	703.9	703.9

(END OF REPORT)