

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: P562326

Luminaire Tested: **SQ4-PW1-0U-100D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562326  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (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-PW1-0U-100D-92765-1D-UNV-STD-W-4 (4000K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS  
DOWNLIGHT 1000 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3982.6 lumens  
Efficiency: N/A  
Efficacy: 93.9 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: Direct

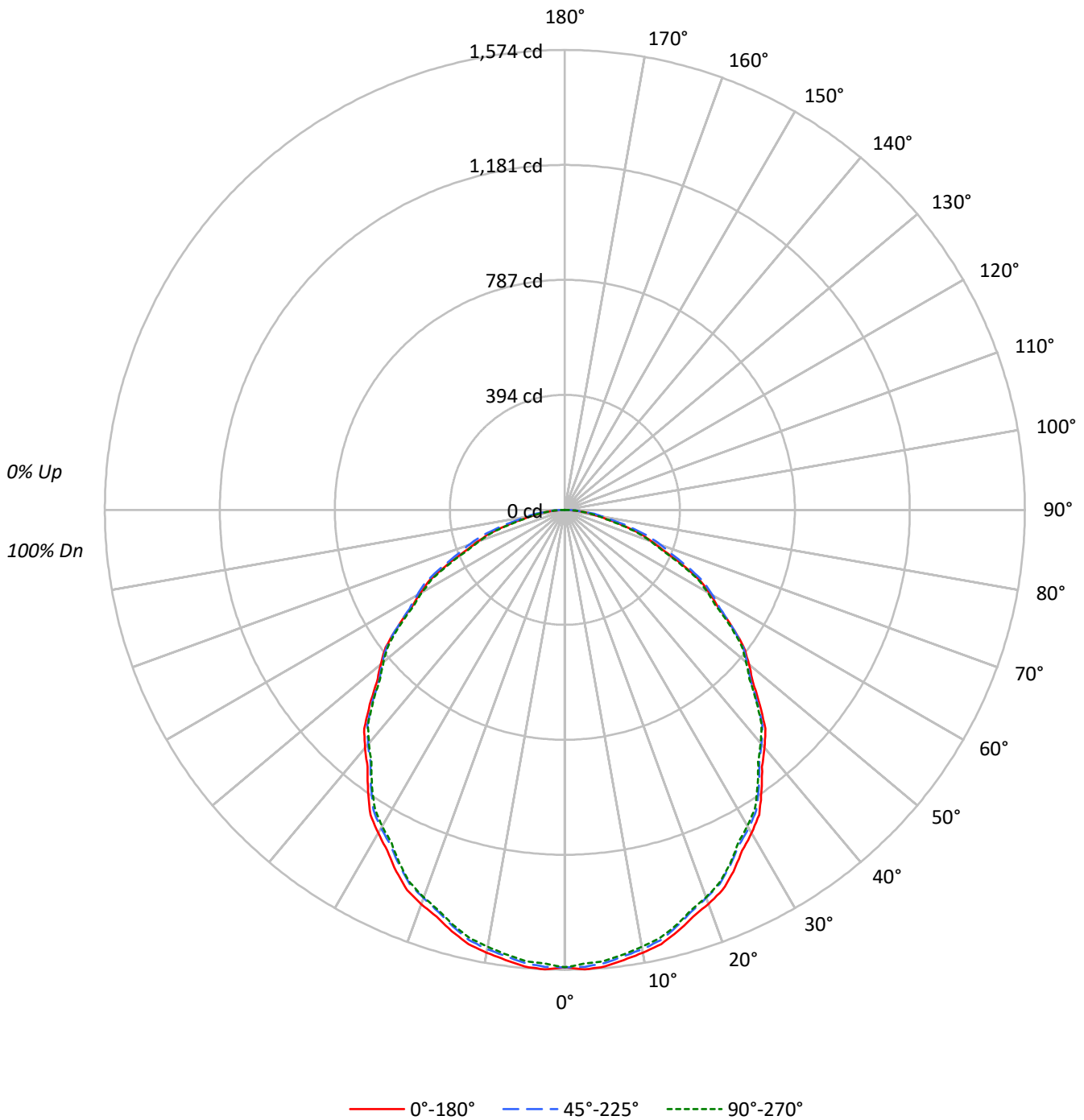
Input Watts (W): 42.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P562326

CATALOG NUMBER: SQ4-PW1-0U-100D-92765-1D-UNV-STD-W-4 (4000K)

### Luminous Intensity Polar Plot





TEST NUMBER: P562326

CATALOG NUMBER: SQ4-PW1-0U-100D-92765-1D-UNV-STD-W-4 (4000K)

**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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	31	42	35	30	41	35	30	28
10	54	41	33	28	53	40	33	28	39	33	28	39	32	28	38	32	28	26

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

	0°	45°	90°
0°	14442	14442	14442
5°	14536	14420	14356
10°	14419	14303	14225
15°	14266	14108	14055
20°	14096	13879	13853
25°	13899	13646	13605
30°	13606	13400	13312
35°	13218	13033	12955
40°	12806	12608	12557
45°	12308	12146	12093
50°	11799	11699	11621
55°	11247	11247	11070
60°	10560	10765	10383
65°	9665	10147	9424
70°	8519	9339	8295
75°	7276	8359	7080
80°	5643	7035	5717
85°	3652	5399	4817



TEST NUMBER: P562326

CATALOG NUMBER: SQ4-PW1-0U-100D-92765-1D-UNV-STD-W-4 (4000K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	147.4	3.7
10°-20°	416.1	10.4
20°-30°	617.3	15.5
30°-40°	722.3	18.1
40°-50°	719.1	18.1
50°-60°	620.9	15.6
60°-70°	447.0	11.2
70°-80°	234.4	5.9
80°-90°	58.1	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1180.8	29.6
0°-40°	1903.1	47.8
0°-60°	3243.1	81.4
0°-90°	3982.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3982.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1565	1565	1565	1565	1565	
5°	1570	1552	1557	1553	1550	149
15°	1494	1475	1477	1474	1472	421
25°	1365	1342	1340	1332	1336	628
35°	1174	1158	1157	1146	1150	734
45°	943	935	931	928	927	728
55°	699	698	699	690	688	624
65°	443	456	465	446	432	439
75°	204	223	234	219	199	219
85°	34	45	51	48	46	47
90°	0	0	0	0	0	



TEST NUMBER: P562326

CATALOG NUMBER: SQ4-PW1-0U-100D-92765-1D-UNV-STD-W-4 (4000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1565.3	1565.3	1565.3	1565.3	1565.3
2.5°	1574.1	1561.2	1565.3	1561.8	1554.3
5°	1569.5	1551.9	1557.0	1552.8	1550.1
7.5°	1553.5	1537.3	1541.0	1536.6	1535.0
10°	1539.1	1522.9	1526.7	1521.1	1518.4
12.5°	1522.6	1505.3	1509.0	1503.5	1501.9
15°	1493.6	1474.7	1477.0	1474.2	1471.5
17.5°	1459.9	1440.8	1441.2	1436.8	1436.2
20°	1435.7	1415.4	1413.6	1408.2	1410.9
22.5°	1409.2	1387.9	1386.0	1378.4	1382.2
25°	1365.3	1342.4	1340.5	1332.3	1336.4
27.5°	1314.6	1291.9	1292.0	1280.5	1284.8
30°	1277.1	1255.5	1257.8	1244.1	1249.5
32.5°	1237.4	1217.9	1219.2	1205.5	1210.9
35°	1173.6	1157.5	1157.1	1146.2	1150.2
37.5°	1108.5	1094.3	1092.0	1085.7	1086.8
40°	1063.3	1051.2	1046.8	1042.6	1042.6
42.5°	1015.9	1004.8	1000.4	997.4	996.3
45°	943.3	935.2	930.9	928.1	926.8
47.5°	871.6	864.1	860.3	858.3	857.0
50°	822.0	816.6	815.1	810.9	809.6
52.5°	772.3	769.1	767.6	762.4	761.0
55°	699.2	697.9	699.2	689.5	688.2
57.5°	623.1	625.2	629.7	616.7	613.4
60°	572.3	577.7	583.4	568.1	562.7
62.5°	520.5	529.1	537.0	519.5	511.9
65°	442.7	456.2	464.8	446.5	431.7
67.5°	367.7	384.4	394.7	375.0	358.3
70°	315.8	334.7	346.2	326.4	307.5
72.5°	270.6	291.6	300.9	282.3	263.4
75°	204.1	223.0	234.5	218.8	198.6
77.5°	144.8	162.6	172.1	158.5	141.8
80°	106.2	125.1	132.4	121.1	107.6
82.5°	75.3	90.9	96.0	89.2	80.0
85°	34.5	45.3	51.0	48.2	45.5
87.5°	8.8	16.4	21.0	21.0	22.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)