

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: P523806

Luminaire Tested: **SQ4-PP3-OU-100D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 5/24/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P523806  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-172-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/24/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PP3-0U-100D-92765-1D-UNV-STD-W-4 (5000K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS  
DOWNLIGHT 1000 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4136.8 lumens  
Efficiency: N/A  
Efficacy: 97.8 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Direct

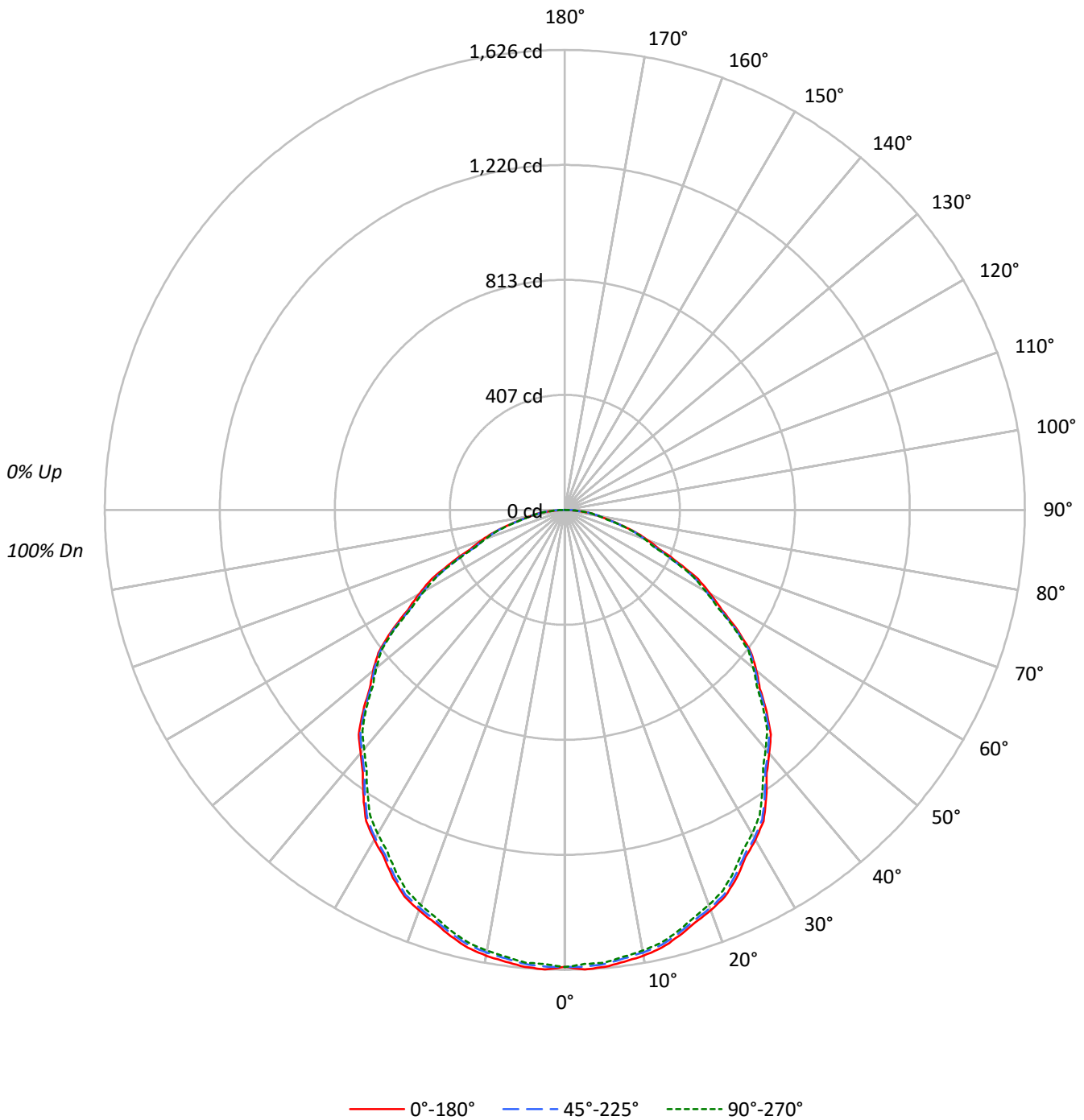
Input Watts (W): 42.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	72
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61
4	84	72	64	57	82	71	63	57	69	62	56	66	60	56	64	59	55	53
5	77	65	56	50	75	64	56	49	62	54	49	60	53	48	58	52	48	46
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26

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

	0°	45°	90°
0°	14912	14912	14912
5°	15021	14929	14878
10°	14996	14890	14824
15°	14897	14816	14734
20°	14798	14715	14604
25°	14623	14522	14377
30°	14351	14277	14096
35°	13976	13881	13705
40°	13529	13443	13291
45°	13160	13067	12938
50°	12687	12607	12485
55°	12030	11871	11781
60°	10952	10638	10586
65°	9649	9245	9215
70°	8330	7987	7987
75°	7169	7069	6969
80°	6323	6397	6248
85°	4944	5399	5399



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	152.8	3.7
10°-20°	436.4	10.5
20°-30°	653.7	15.8
30°-40°	766.7	18.5
40°-50°	769.1	18.6
50°-60°	656.1	15.9
60°-70°	427.9	10.3
70°-80°	214.7	5.2
80°-90°	59.4	1.4
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°	1242.9	30.0
0°-40°	2009.6	48.6
0°-60°	3434.8	83.0
0°-90°	4136.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4136.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1616	1616	1616	1616	1616	
5°	1622	1607	1612	1606	1606	154
15°	1560	1544	1551	1545	1543	440
25°	1436	1420	1426	1414	1412	660
35°	1241	1228	1232	1218	1217	775
45°	1009	1002	1002	992	992	777
55°	748	745	738	734	732	665
65°	442	434	424	421	422	441
75°	201	201	198	197	196	218
85°	47	51	51	51	51	57
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1616.3	1616.3	1616.3	1616.3	1616.3
2.5°	1626.5	1613.2	1616.3	1613.9	1607.2
5°	1621.9	1606.7	1612.0	1606.4	1606.4
7.5°	1610.9	1594.3	1599.6	1593.9	1593.6
10°	1600.7	1584.1	1589.4	1583.7	1582.3
12.5°	1586.0	1569.3	1575.8	1569.0	1568.7
15°	1559.6	1544.4	1551.1	1545.4	1542.6
17.5°	1529.9	1513.2	1521.4	1513.4	1512.3
20°	1507.2	1490.6	1498.7	1487.4	1487.4
22.5°	1480.0	1463.4	1472.6	1457.9	1457.9
25°	1436.4	1419.8	1426.5	1413.7	1412.3
27.5°	1384.5	1368.2	1375.2	1360.7	1360.5
30°	1347.1	1331.9	1340.1	1324.4	1323.1
32.5°	1306.3	1292.2	1298.1	1282.5	1281.1
35°	1240.9	1228.4	1232.4	1218.2	1216.8
37.5°	1172.1	1159.3	1163.8	1151.6	1151.1
40°	1123.3	1115.0	1116.2	1106.3	1103.5
42.5°	1078.0	1068.6	1069.8	1059.8	1059.3
45°	1008.6	1001.7	1001.5	991.6	991.6
47.5°	934.9	929.7	928.1	919.9	919.6
50°	883.9	879.8	878.3	871.1	869.8
52.5°	830.7	828.7	823.9	817.9	817.6
55°	747.9	745.2	738.0	733.7	732.4
57.5°	658.1	652.6	644.5	638.3	639.4
60°	593.5	588.0	576.5	573.7	573.7
62.5°	531.2	524.6	513.1	509.2	511.4
65°	442.0	433.7	423.5	420.7	422.1
67.5°	360.9	353.5	342.5	342.5	341.4
70°	308.8	304.7	296.1	296.1	296.1
72.5°	262.3	260.4	254.1	254.1	253.0
75°	201.1	201.1	198.3	196.9	195.5
77.5°	150.7	151.3	149.9	148.4	145.9
80°	119.0	121.8	120.4	119.0	117.6
82.5°	89.5	92.3	92.1	89.5	89.2
85°	46.7	50.9	51.0	51.0	51.0
87.5°	12.5	16.9	18.1	18.2	19.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)