

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: P561961

Luminaire Tested: **SQ4-PR1-0U-100D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P561961  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (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-PR1-0U-100D-92765-1D-UNV-STD-W-4 (3500K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS  
DOWNLIGHT 1000 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3930.8 lumens  
Efficiency: N/A  
Efficacy: 92.7 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: Direct

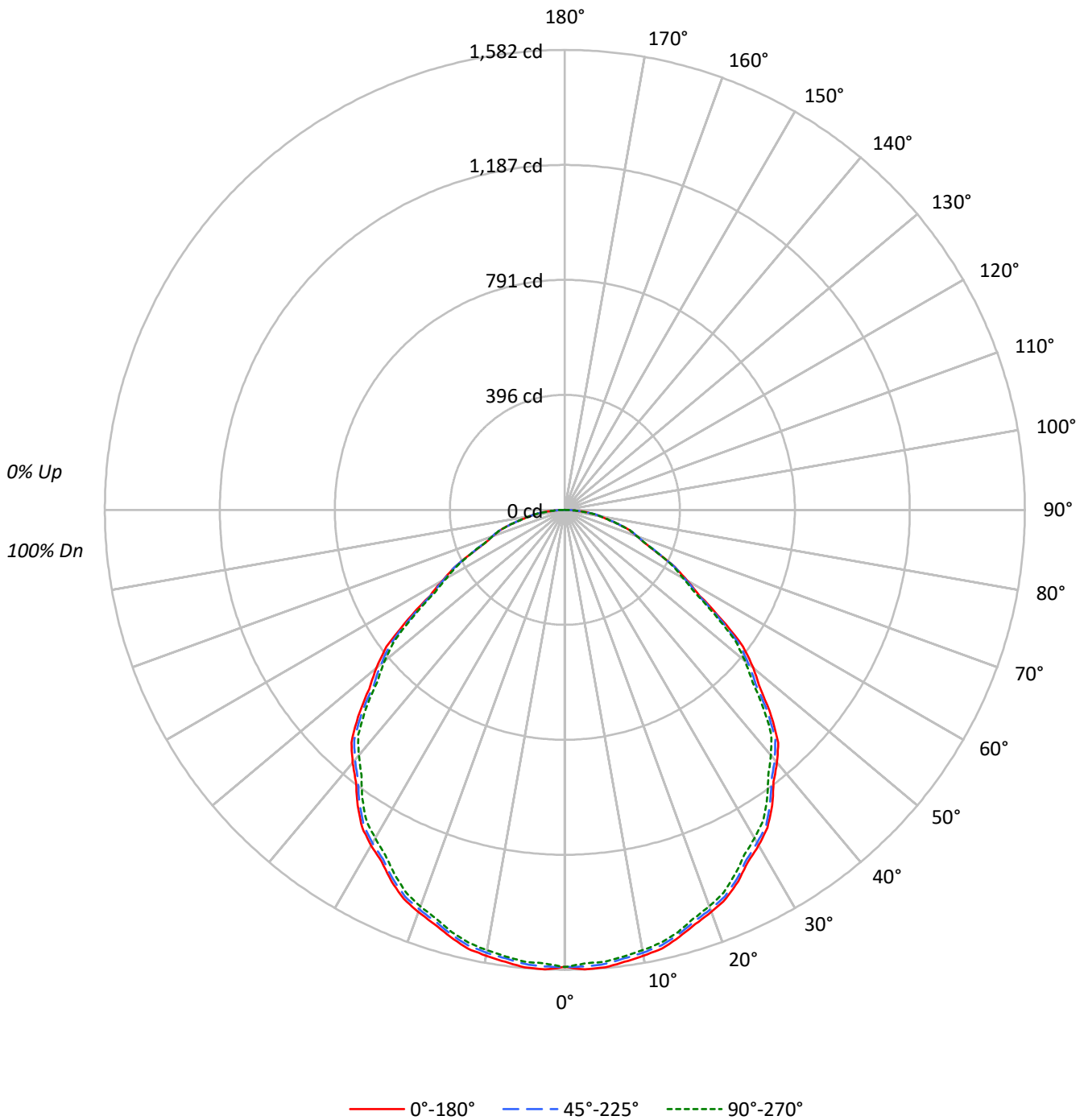
Input Watts (W): 42.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85				
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72				
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62				
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54				
5	78	66	57	51	76	65	57	50	63	55	50	61	54	49	59	53	49	47				
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41				
7	67	54	46	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37				
8	63	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33				
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30				
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29	27				

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

	0°	45°	90°
0°	14507	14507	14507
5°	14638	14525	14450
10°	14591	14490	14413
15°	14527	14437	14359
20°	14455	14361	14255
25°	14353	14256	14090
30°	14198	14097	13894
35°	13988	13866	13668
40°	13669	13523	13277
45°	13112	12882	12617
50°	12130	11839	11605
55°	10587	10348	10131
60°	8922	8846	8673
65°	7717	7746	7687
70°	7086	7124	7124
75°	6809	6809	6855
80°	6402	6477	6402
85°	5166	5738	5738



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	148.7	3.8
10°-20°	425.4	10.8
20°-30°	641.7	16.3
30°-40°	764.6	19.5
40°-50°	753.8	19.2
50°-60°	576.1	14.7
60°-70°	356.5	9.1
70°-80°	202.5	5.2
80°-90°	61.6	1.6
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°	1215.8	30.9
0°-40°	1980.4	50.4
0°-60°	3310.2	84.2
0°-90°	3930.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3930.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1572	1572	1572	1572	1572	
5°	1580	1563	1568	1563	1560	150
15°	1521	1505	1512	1506	1503	429
25°	1410	1393	1400	1386	1384	649
35°	1242	1227	1231	1215	1214	775
45°	1005	992	987	970	967	770
55°	658	648	643	632	630	590
65°	354	351	355	352	352	358
75°	191	191	191	192	192	202
85°	49	51	54	54	54	59
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1572.4	1572.4	1572.4	1572.4	1572.4
2.5°	1582.2	1568.4	1572.4	1569.0	1561.6
5°	1580.5	1563.3	1568.3	1562.9	1560.2
7.5°	1568.3	1551.4	1556.4	1551.0	1549.4
10°	1557.5	1541.6	1546.7	1541.2	1538.5
12.5°	1545.6	1528.6	1534.7	1528.2	1525.5
15°	1520.9	1505.0	1511.5	1506.0	1503.3
17.5°	1493.8	1476.9	1483.3	1477.0	1473.5
20°	1472.2	1456.3	1462.7	1453.2	1451.9
22.5°	1448.3	1432.5	1438.9	1426.1	1425.9
25°	1409.9	1392.7	1400.4	1385.5	1384.1
27.5°	1364.1	1348.2	1354.6	1339.4	1337.8
30°	1332.7	1316.8	1323.2	1306.9	1304.2
32.5°	1296.9	1282.1	1287.4	1271.2	1269.6
35°	1241.9	1227.4	1231.1	1214.8	1213.5
37.5°	1179.4	1166.1	1168.3	1150.4	1149.0
40°	1134.9	1121.7	1122.8	1103.8	1102.4
42.5°	1086.2	1072.9	1071.8	1052.8	1051.5
45°	1004.9	991.7	987.3	969.7	967.0
47.5°	912.3	899.0	890.9	876.5	874.6
50°	845.1	831.9	824.8	812.5	808.5
52.5°	772.5	759.3	753.3	742.1	738.1
55°	658.2	647.6	643.3	632.4	629.8
57.5°	549.6	542.4	541.2	530.6	529.6
60°	483.5	479.5	479.4	470.0	470.0
62.5°	427.2	424.2	426.3	420.1	419.0
65°	353.5	350.8	354.8	352.1	352.1
67.5°	295.2	295.2	297.7	296.6	296.6
70°	262.7	262.7	264.1	264.1	264.1
72.5°	233.5	232.4	235.9	235.9	234.8
75°	191.0	191.0	191.0	192.3	192.3
77.5°	148.7	149.0	150.1	149.8	148.7
80°	120.5	121.9	121.9	120.5	120.5
82.5°	92.4	93.7	93.7	93.4	92.4
85°	48.8	51.4	54.2	54.2	54.2
87.5°	14.1	18.3	21.7	21.6	20.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)