

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: P561959

Luminaire Tested: **SQ4-PR1-0U-100D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P561959  
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 (2700K)  
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 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

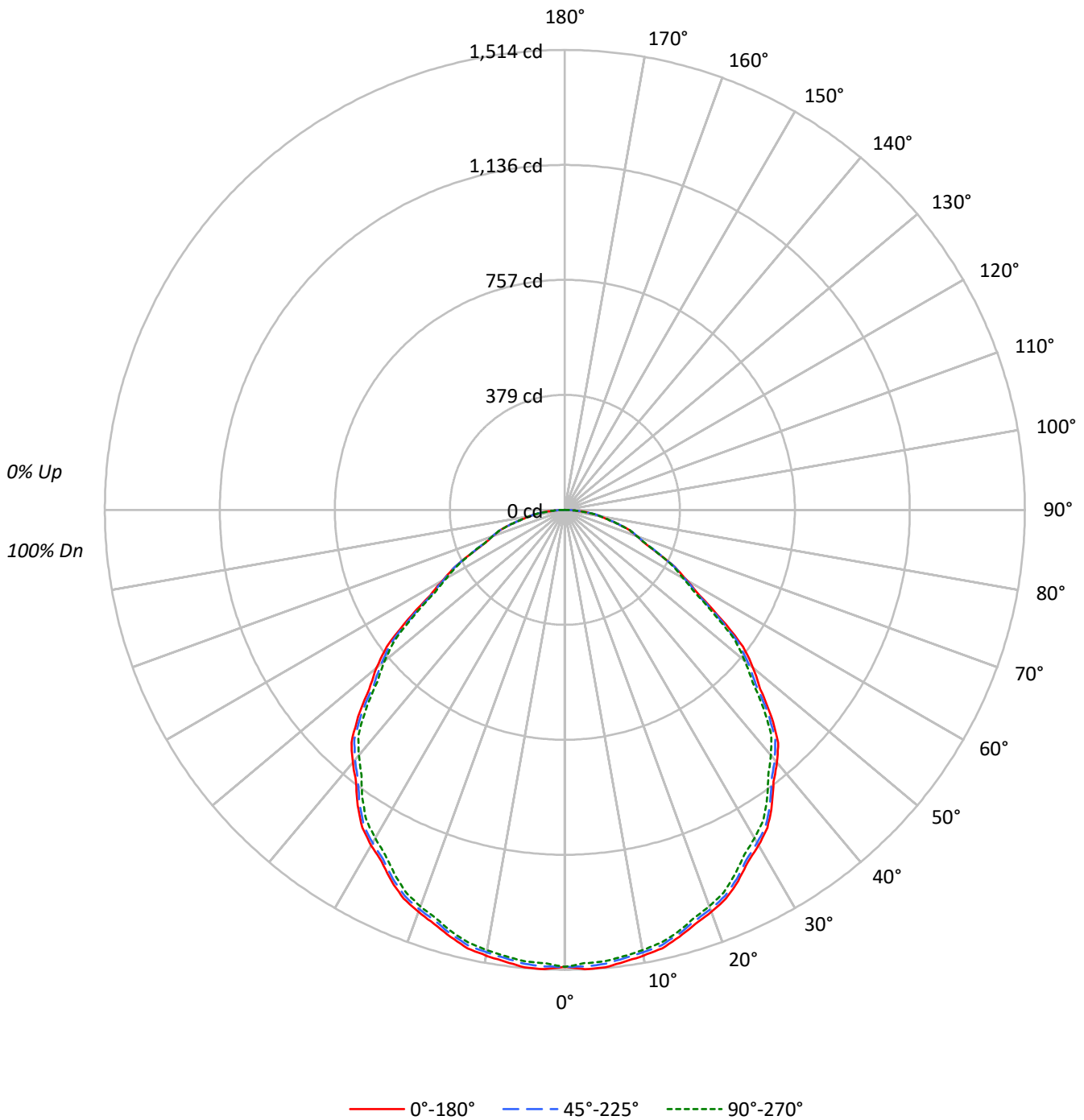
Lumens per Lamp: N/A  
Luminaire Lumens: 3760.8 lumens  
Efficiency: N/A  
Efficacy: 88.9 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 42.3  
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	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°	13880	13880	13880
5°	14004	13897	13825
10°	13960	13864	13790
15°	13899	13813	13738
20°	13829	13740	13639
25°	13732	13639	13481
30°	13583	13487	13293
35°	13383	13266	13076
40°	13077	12938	12703
45°	12545	12325	12072
50°	11606	11326	11104
55°	10129	9901	9691
60°	8536	8464	8296
65°	7383	7412	7355
70°	6782	6817	6817
75°	6513	6513	6559
80°	6126	6195	6126
85°	4933	5483	5483



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	142.3	3.8
10°-20°	407.0	10.8
20°-30°	613.9	16.3
30°-40°	731.5	19.5
40°-50°	721.2	19.2
50°-60°	551.2	14.7
60°-70°	341.1	9.1
70°-80°	193.7	5.2
80°-90°	58.9	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°	1163.2	30.9
0°-40°	1894.7	50.4
0°-60°	3167.0	84.2
0°-90°	3760.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3760.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1504	1504	1504	1504	1504	
5°	1512	1496	1500	1495	1493	143
15°	1455	1440	1446	1441	1438	411
25°	1349	1332	1340	1326	1324	621
35°	1188	1174	1178	1162	1161	742
45°	962	949	945	928	925	737
55°	630	620	616	605	602	564
65°	338	336	340	337	337	343
75°	183	183	183	184	184	193
85°	47	49	52	52	52	56
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1504.4	1504.4	1504.4	1504.4	1504.4
2.5°	1513.7	1500.5	1504.4	1501.1	1494.0
5°	1512.1	1495.7	1500.5	1495.2	1492.7
7.5°	1500.5	1484.3	1489.1	1483.9	1482.3
10°	1490.1	1474.9	1479.8	1474.5	1472.0
12.5°	1478.7	1462.5	1468.4	1462.1	1459.5
15°	1455.1	1439.9	1446.1	1440.8	1438.3
17.5°	1429.2	1413.0	1419.1	1413.1	1409.8
20°	1408.5	1393.3	1399.4	1390.3	1389.1
22.5°	1385.7	1370.5	1376.6	1364.4	1364.2
25°	1348.9	1332.4	1339.8	1325.5	1324.3
27.5°	1305.1	1289.9	1296.0	1281.5	1279.9
30°	1275.0	1259.8	1266.0	1250.3	1247.8
32.5°	1240.8	1226.6	1231.7	1216.2	1214.6
35°	1188.2	1174.3	1177.8	1162.3	1161.0
37.5°	1128.3	1115.7	1117.7	1100.6	1099.3
40°	1085.8	1073.2	1074.2	1056.0	1054.7
42.5°	1039.2	1026.5	1025.5	1007.3	1006.0
45°	961.5	948.8	944.6	927.7	925.2
47.5°	872.8	860.2	852.3	838.6	836.8
50°	808.6	795.9	789.1	777.4	773.6
52.5°	739.1	726.4	720.7	710.0	706.2
55°	629.7	619.6	615.5	605.1	602.5
57.5°	525.8	519.0	517.8	507.7	506.6
60°	462.6	458.8	458.7	449.6	449.6
62.5°	408.7	405.9	407.9	401.9	400.9
65°	338.2	335.7	339.5	336.9	336.9
67.5°	282.5	282.5	284.8	283.8	283.8
70°	251.4	251.4	252.7	252.7	252.7
72.5°	223.4	222.4	225.7	225.7	224.7
75°	182.7	182.7	182.7	184.0	184.0
77.5°	142.3	142.5	143.6	143.3	142.3
80°	115.3	116.6	116.6	115.3	115.3
82.5°	88.4	89.6	89.7	89.4	88.4
85°	46.6	49.2	51.8	51.8	51.8
87.5°	13.5	17.5	20.7	20.7	19.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)