

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: P564898

Luminaire Tested: **SQ4-PW1-0U-125D-935-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564898  
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-125D-935-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

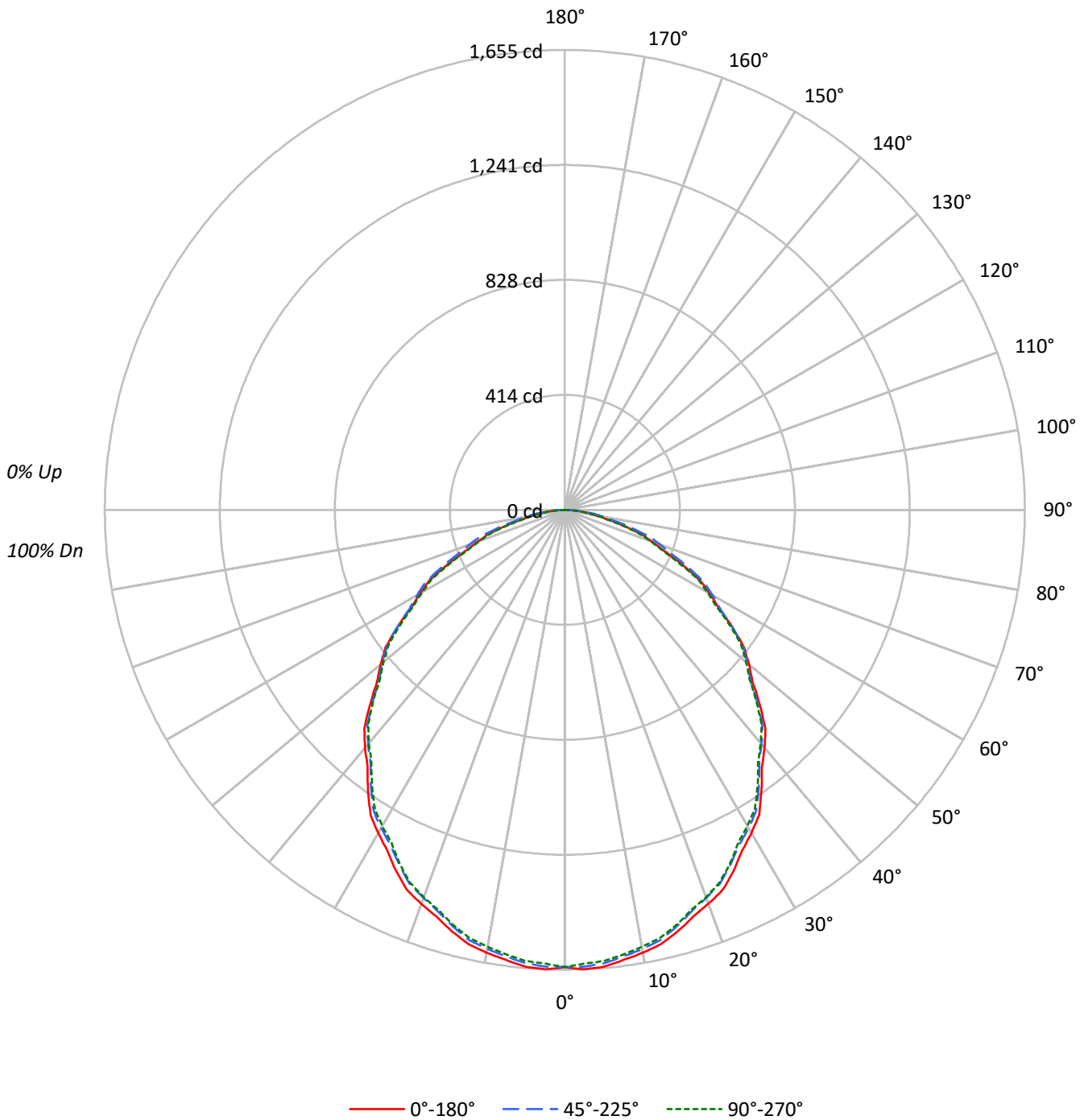
Lumens per Lamp: N/A  
Luminaire Lumens: 4186.7 lumens  
Efficiency: N/A  
Efficacy: 96.0 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 43.6  
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	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°	15182	15182	15182
5°	15280	15159	15092
10°	15158	15036	14954
15°	14998	14832	14776
20°	14819	14591	14563
25°	14611	14346	14302
30°	14302	14086	13993
35°	13896	13700	13618
40°	13463	13253	13201
45°	12940	12769	12712
50°	12403	12298	12215
55°	11824	11824	11638
60°	11103	11317	10915
65°	10160	10667	9907
70°	8956	9816	8721
75°	7650	8787	7443
80°	5929	7396	6009
85°	3832	5674	5060



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	155.0	3.7
10°-20°	437.5	10.4
20°-30°	648.9	15.5
30°-40°	759.3	18.1
40°-50°	755.9	18.1
50°-60°	652.8	15.6
60°-70°	469.9	11.2
70°-80°	246.4	5.9
80°-90°	61.1	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°	1241.3	29.6
0°-40°	2000.7	47.8
0°-60°	3409.3	81.4
0°-90°	4186.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4186.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1646	1646	1646	1646	1646	
5°	1650	1632	1637	1632	1630	156
15°	1570	1550	1553	1550	1547	443
25°	1435	1411	1409	1401	1405	660
35°	1234	1217	1216	1205	1209	771
45°	992	983	979	976	974	765
55°	735	734	735	725	724	656
65°	465	480	489	469	454	461
75°	215	234	246	230	209	230
85°	36	48	54	51	48	49
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1645.5	1645.5	1645.5	1645.5	1645.5
2.5°	1654.8	1641.2	1645.5	1641.9	1633.9
5°	1649.9	1631.5	1636.8	1632.4	1629.6
7.5°	1633.1	1616.1	1620.0	1615.3	1613.6
10°	1618.0	1601.0	1604.9	1599.1	1596.2
12.5°	1600.6	1582.5	1586.4	1580.6	1578.9
15°	1570.2	1550.3	1552.8	1549.8	1547.0
17.5°	1534.8	1514.6	1515.1	1510.4	1509.8
20°	1509.3	1488.0	1486.1	1480.3	1483.2
22.5°	1481.4	1459.0	1457.1	1449.0	1453.0
25°	1435.3	1411.2	1409.2	1400.6	1404.9
27.5°	1382.0	1358.1	1358.2	1346.1	1350.6
30°	1342.5	1319.8	1322.2	1307.9	1313.5
32.5°	1300.8	1280.4	1281.6	1267.3	1272.9
35°	1233.8	1216.8	1216.4	1204.9	1209.1
37.5°	1165.4	1150.3	1148.0	1141.3	1142.5
40°	1117.8	1105.1	1100.4	1096.1	1096.1
42.5°	1067.9	1056.3	1051.7	1048.5	1047.3
45°	991.7	983.2	978.6	975.7	974.3
47.5°	916.3	908.3	904.4	902.3	900.9
50°	864.1	858.4	856.8	852.5	851.0
52.5°	811.9	808.5	807.0	801.4	800.0
55°	735.1	733.6	735.1	724.9	723.5
57.5°	655.0	657.3	662.0	648.3	644.9
60°	601.7	607.3	613.3	597.2	591.5
62.5°	547.2	556.2	564.6	546.1	538.2
65°	465.4	479.6	488.6	469.4	453.8
67.5°	386.5	404.1	414.9	394.2	376.7
70°	332.0	351.9	363.9	343.2	323.3
72.5°	284.5	306.6	316.3	296.8	276.9
75°	214.6	234.4	246.5	230.0	208.8
77.5°	152.2	170.9	180.9	166.6	149.0
80°	111.6	131.5	139.2	127.3	113.1
82.5°	79.2	95.6	100.9	93.7	84.1
85°	36.2	47.6	53.6	50.7	47.8
87.5°	9.3	17.2	22.0	22.1	23.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)