

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: P563527

Luminaire Tested: **SQ4-PP3-0U-100D-930-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563527  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-172-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PP3-0U-100D-930-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

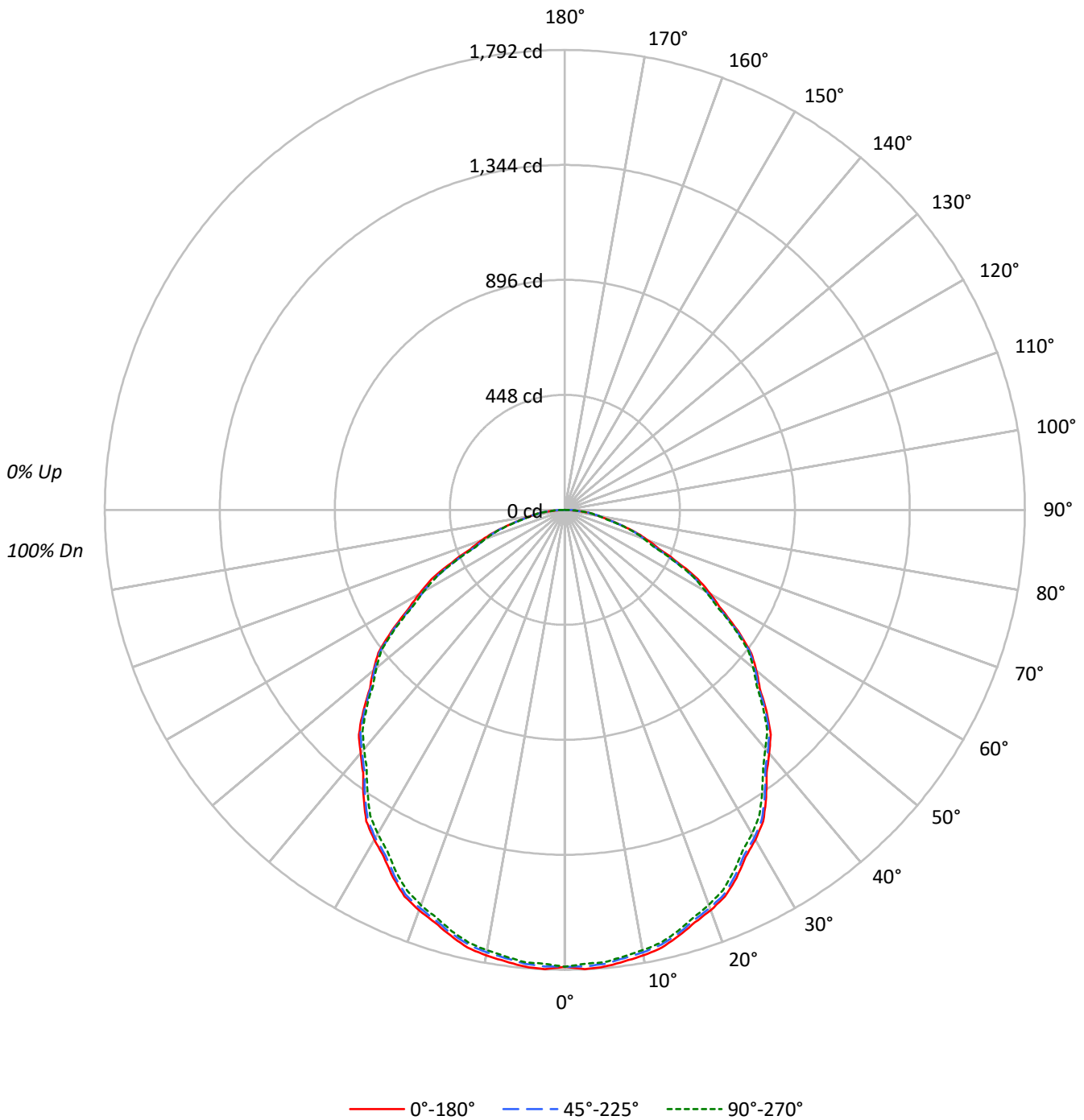
Lumens per Lamp: N/A  
Luminaire Lumens: 4556.7 lumens  
Efficiency: N/A  
Efficacy: 82.4 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Direct

Input Watts (W): 55.3  
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				100
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85				85
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	72				72
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61				61
4	84	72	64	57	82	71	63	57	69	62	56	66	60	56	64	59	55	53				53
5	77	65	56	50	75	64	56	49	62	54	49	60	53	48	58	52	48	46				46
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40				40
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36				36
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34	32				32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29				29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26				26

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

	0°	45°	90°
0°	10950	10950	10950
5°	11031	10964	10925
10°	11012	10934	10886
15°	10939	10880	10820
20°	10867	10805	10724
25°	10738	10664	10558
30°	10539	10484	10351
35°	10264	10193	10064
40°	9935	9872	9760
45°	9664	9596	9501
50°	9316	9257	9167
55°	8835	8717	8651
60°	8043	7813	7773
65°	7085	6789	6768
70°	6118	5864	5864
75°	5266	5190	5117
80°	4644	4697	4587
85°	3634	3966	3966



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	168.3	3.7
10°-20°	480.7	10.5
20°-30°	720.0	15.8
30°-40°	844.5	18.5
40°-50°	847.2	18.6
50°-60°	722.7	15.9
60°-70°	471.3	10.3
70°-80°	236.5	5.2
80°-90°	65.4	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°	1369.1	30.0
0°-40°	2213.6	48.6
0°-60°	3783.5	83.0
0°-90°	4556.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4556.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1780	1780	1780	1780	1780	
5°	1787	1770	1776	1769	1769	170
15°	1718	1701	1709	1702	1699	485
25°	1582	1564	1571	1557	1556	728
35°	1367	1353	1358	1342	1340	854
45°	1111	1103	1103	1092	1092	855
55°	824	821	813	808	807	732
65°	487	478	466	464	465	486
75°	222	222	218	217	215	240
85°	52	56	56	56	56	62
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1780.3	1780.3	1780.3	1780.3	1780.3
2.5°	1791.6	1776.9	1780.3	1777.7	1770.4
5°	1786.6	1769.8	1775.7	1769.4	1769.4
7.5°	1774.4	1756.1	1761.9	1755.7	1755.4
10°	1763.2	1744.9	1750.7	1744.4	1742.9
12.5°	1747.0	1728.6	1735.7	1728.2	1727.9
15°	1717.9	1701.1	1708.6	1702.3	1699.2
17.5°	1685.2	1666.9	1675.8	1667.0	1665.8
20°	1660.2	1641.9	1650.8	1638.4	1638.4
22.5°	1630.2	1611.9	1622.1	1605.9	1605.9
25°	1582.2	1563.9	1571.3	1557.2	1555.7
27.5°	1525.1	1507.1	1514.8	1498.9	1498.5
30°	1483.9	1467.1	1476.1	1458.9	1457.4
32.5°	1438.9	1423.4	1429.9	1412.7	1411.2
35°	1366.9	1353.1	1357.5	1341.9	1340.3
37.5°	1291.0	1277.0	1282.0	1268.5	1267.9
40°	1237.3	1228.2	1229.5	1218.6	1215.5
42.5°	1187.4	1177.0	1178.4	1167.4	1166.8
45°	1111.0	1103.3	1103.2	1092.2	1092.2
47.5°	1029.8	1024.0	1022.3	1013.3	1013.0
50°	973.6	969.1	967.4	959.6	958.0
52.5°	915.0	912.8	907.5	900.9	900.6
55°	823.9	820.8	812.9	808.2	806.7
57.5°	724.9	718.8	710.0	703.1	704.3
60°	653.8	647.7	635.1	631.9	631.9
62.5°	585.1	577.8	565.2	560.8	563.3
65°	486.8	477.7	466.5	463.5	465.0
67.5°	397.6	389.3	377.3	377.3	376.0
70°	340.2	335.6	326.1	326.1	326.1
72.5°	289.0	286.8	279.9	279.9	278.7
75°	221.6	221.6	218.4	216.9	215.3
77.5°	166.0	166.6	165.1	163.5	160.7
80°	131.1	134.1	132.6	131.0	129.5
82.5°	98.6	101.7	101.4	98.6	98.3
85°	51.5	56.1	56.2	56.2	56.2
87.5°	13.7	18.6	20.0	20.0	21.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)