

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: P564171

Luminaire Tested: **SQ4-PR1-0U-075D-840-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564171  
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-075D-840-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

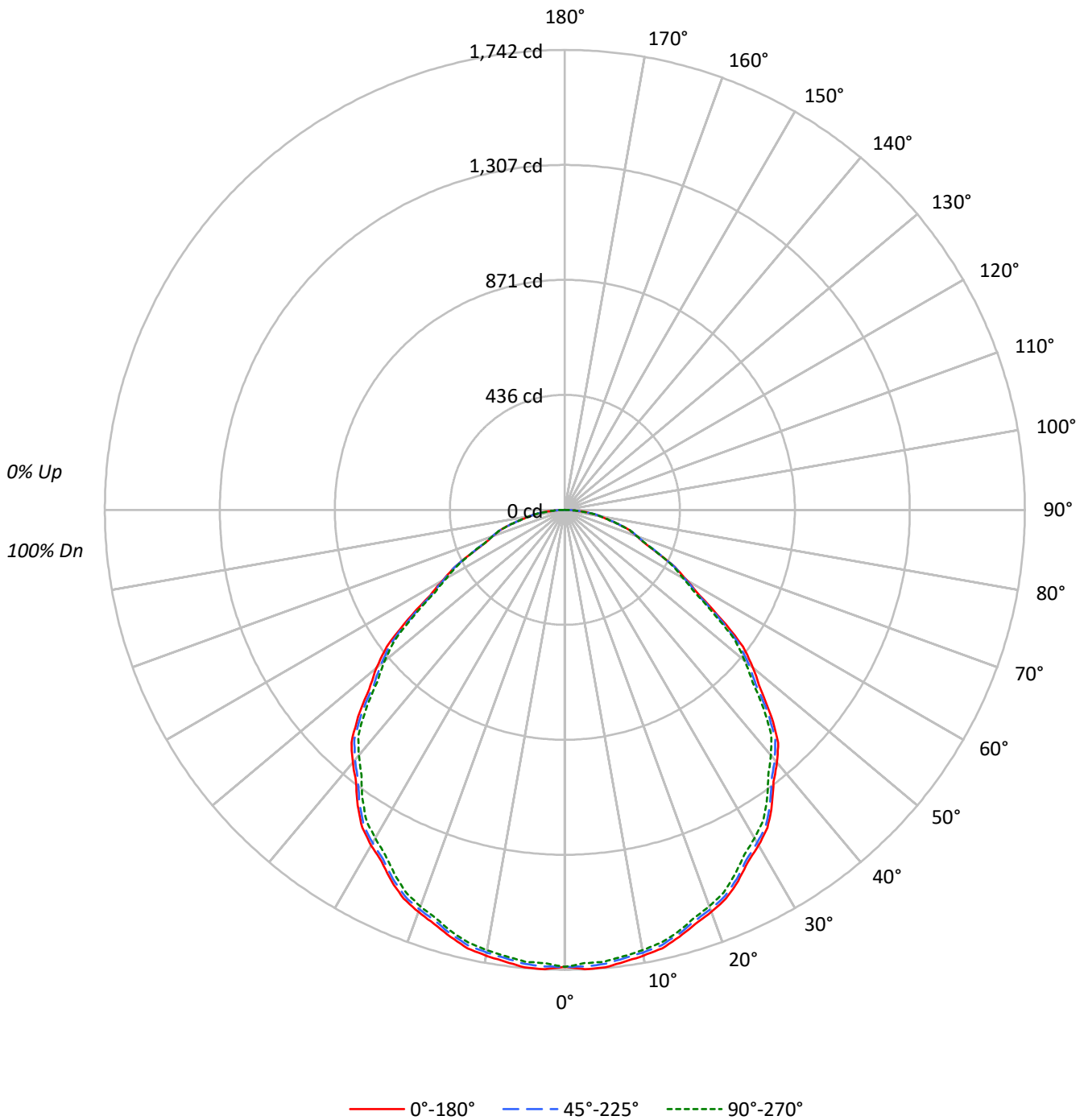
Lumens per Lamp: N/A  
Luminaire Lumens: 4327.3 lumens  
Efficiency: N/A  
Efficacy: 107.1 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Direct

Input Watts (W): 40.4  
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	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°	10647	10647	10647
5°	10743	10660	10605
10°	10709	10635	10578
15°	10662	10595	10538
20°	10608	10540	10462
25°	10534	10462	10341
30°	10420	10346	10198
35°	10266	10177	10031
40°	10032	9924	9744
45°	9623	9454	9260
50°	8902	8689	8517
55°	7770	7594	7435
60°	6548	6493	6365
65°	5663	5685	5641
70°	5201	5228	5228
75°	4995	4995	5031
80°	4700	4754	4700
85°	3790	4206	4206



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	163.7	3.8
10°-20°	468.3	10.8
20°-30°	706.4	16.3
30°-40°	841.7	19.5
40°-50°	829.8	19.2
50°-60°	634.2	14.7
60°-70°	392.4	9.1
70°-80°	222.9	5.2
80°-90°	67.8	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°	1338.4	30.9
0°-40°	2180.1	50.4
0°-60°	3644.1	84.2
0°-90°	4327.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4327.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1731	1731	1731	1731	1731	
5°	1740	1721	1726	1720	1718	165
15°	1674	1657	1664	1658	1655	472
25°	1552	1533	1542	1525	1524	714
35°	1367	1351	1355	1337	1336	853
45°	1106	1092	1087	1067	1064	848
55°	725	713	708	696	693	649
65°	389	386	391	388	388	394
75°	210	210	210	212	212	222
85°	54	57	60	60	60	65
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1731.0	1731.0	1731.0	1731.0	1731.0
2.5°	1741.7	1726.6	1731.0	1727.2	1719.1
5°	1739.9	1721.0	1726.5	1720.5	1717.6
7.5°	1726.5	1707.9	1713.4	1707.4	1705.6
10°	1714.6	1697.1	1702.7	1696.6	1693.7
12.5°	1701.5	1682.8	1689.5	1682.3	1679.4
15°	1674.3	1656.8	1663.9	1657.9	1654.9
17.5°	1644.5	1625.9	1632.9	1625.9	1622.1
20°	1620.7	1603.2	1610.2	1599.7	1598.3
22.5°	1594.4	1576.9	1584.0	1570.0	1569.7
25°	1552.1	1533.1	1541.6	1525.2	1523.7
27.5°	1501.7	1484.2	1491.2	1474.5	1472.8
30°	1467.1	1449.6	1456.7	1438.7	1435.8
32.5°	1427.7	1411.4	1417.3	1399.4	1397.6
35°	1367.2	1351.2	1355.3	1337.3	1335.9
37.5°	1298.3	1283.7	1286.1	1266.4	1264.9
40°	1249.4	1234.8	1236.0	1215.1	1213.6
42.5°	1195.7	1181.2	1179.9	1159.0	1157.6
45°	1106.3	1091.7	1086.9	1067.4	1064.5
47.5°	1004.3	989.7	980.7	964.9	962.9
50°	930.3	915.8	908.0	894.5	890.1
52.5°	850.4	835.9	829.3	816.9	812.6
55°	724.6	712.9	708.2	696.2	693.3
57.5°	605.0	597.2	595.8	584.1	583.0
60°	532.3	527.9	527.8	517.4	517.4
62.5°	470.2	467.0	469.3	462.5	461.3
65°	389.1	386.2	390.6	387.6	387.6
67.5°	325.0	325.0	327.7	326.5	326.5
70°	289.2	289.2	290.7	290.7	290.7
72.5°	257.0	255.9	259.7	259.7	258.5
75°	210.2	210.2	210.2	211.7	211.7
77.5°	163.7	164.0	165.2	164.9	163.7
80°	132.7	134.2	134.2	132.7	132.7
82.5°	101.7	103.1	103.2	102.8	101.7
85°	53.7	56.6	59.6	59.6	59.6
87.5°	15.5	20.2	23.9	23.8	22.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)