

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: P562343

Luminaire Tested: **SQ4-PW1-0U-125D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562343  
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-92765-1D-UNV-STD-W-4 (6500K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS  
DOWNLIGHT 1250 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

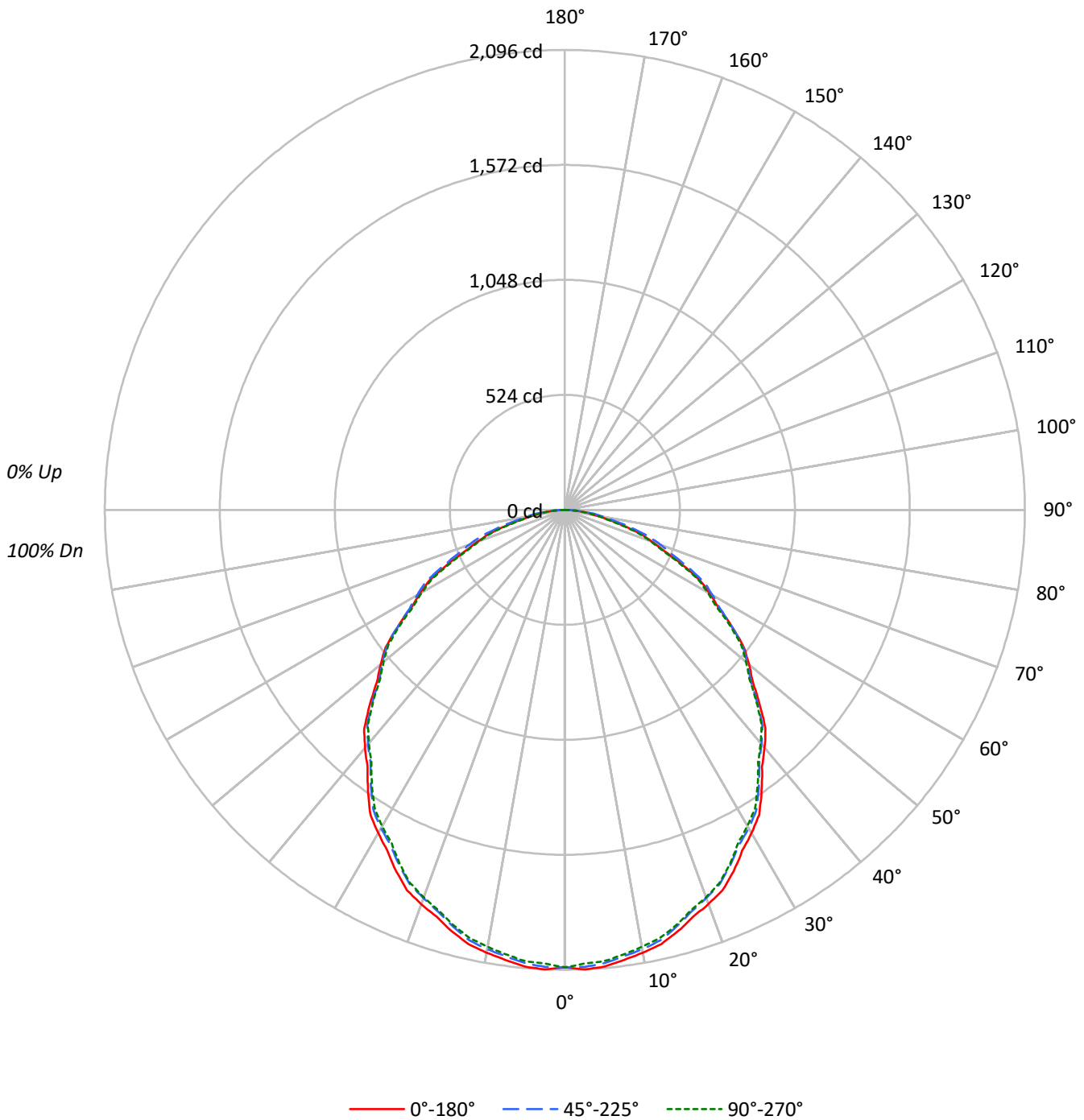
Lumens per Lamp: N/A  
Luminaire Lumens: 5303.9 lumens  
Efficiency: N/A  
Efficacy: 95.7 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 55.4  
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	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°	19233	19233	19233
5°	19357	19205	19119
10°	19203	19048	18945
15°	18999	18789	18718
20°	18773	18484	18448
25°	18510	18174	18117
30°	18119	17846	17727
35°	17604	17356	17253
40°	17055	16789	16723
45°	16392	16177	16104
50°	15713	15581	15474
55°	14979	14979	14742
60°	14064	14336	13828
65°	12872	13513	12551
70°	11346	12436	11049
75°	9689	11129	9429
80°	7513	9367	7614
85°	4859	7198	6415



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	196.3	3.7
10°-20°	554.2	10.4
20°-30°	822.1	15.5
30°-40°	961.9	18.1
40°-50°	957.6	18.1
50°-60°	826.9	15.6
60°-70°	595.2	11.2
70°-80°	312.2	5.9
80°-90°	77.4	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°	1572.6	29.6
0°-40°	2534.5	47.8
0°-60°	4319.1	81.4
0°-90°	5303.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5303.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2085	2085	2085	2085	2085	
5°	2090	2067	2074	2068	2064	198
15°	1989	1964	1967	1963	1960	561
25°	1818	1788	1785	1774	1780	836
35°	1563	1542	1541	1526	1532	977
45°	1256	1246	1240	1236	1234	969
55°	931	929	931	918	916	831
65°	590	608	619	595	575	584
75°	272	297	312	291	264	291
85°	46	60	68	64	61	62
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2084.6	2084.6	2084.6	2084.6	2084.6
2.5°	2096.4	2079.1	2084.6	2080.0	2069.9
5°	2090.1	2066.8	2073.6	2068.0	2064.4
7.5°	2068.8	2047.3	2052.3	2046.4	2044.2
10°	2049.7	2028.2	2033.2	2025.8	2022.2
12.5°	2027.7	2004.7	2009.7	2002.3	2000.1
15°	1989.1	1964.0	1967.1	1963.3	1959.7
17.5°	1944.3	1918.8	1919.3	1913.4	1912.7
20°	1912.0	1885.0	1882.6	1875.3	1878.9
22.5°	1876.7	1848.3	1845.9	1835.7	1840.7
25°	1818.3	1787.8	1785.3	1774.4	1779.7
27.5°	1750.7	1720.6	1720.6	1705.3	1711.1
30°	1700.8	1672.0	1675.1	1656.8	1664.0
32.5°	1647.9	1622.0	1623.6	1605.4	1612.6
35°	1563.0	1541.5	1541.0	1526.4	1531.8
37.5°	1476.3	1457.3	1454.3	1445.9	1447.3
40°	1416.1	1399.9	1394.0	1388.5	1388.5
42.5°	1352.9	1338.2	1332.3	1328.3	1326.8
45°	1256.3	1245.5	1239.8	1236.0	1234.2
47.5°	1160.8	1150.7	1145.7	1143.1	1141.3
50°	1094.7	1087.5	1085.5	1079.9	1078.1
52.5°	1028.5	1024.2	1022.3	1015.3	1013.5
55°	931.2	929.4	931.2	918.3	916.5
57.5°	829.8	832.7	838.6	821.3	817.0
60°	762.2	769.4	776.9	756.5	749.4
62.5°	693.2	704.7	715.2	691.8	681.8
65°	589.6	607.5	619.0	594.6	574.9
67.5°	489.7	511.9	525.7	499.4	477.2
70°	420.6	445.7	461.0	434.7	409.6
72.5°	360.4	388.4	400.8	375.9	350.8
75°	271.8	297.0	312.2	291.4	264.5
77.5°	192.9	216.6	229.2	211.1	188.8
80°	141.4	166.6	176.3	161.2	143.3
82.5°	100.3	121.1	127.8	118.7	106.5
85°	45.9	60.3	68.0	64.2	60.6
87.5°	11.8	21.8	27.9	28.0	29.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)