

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: P564164

Luminaire Tested: **SQ4-PR1-0U-075D-830-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564164  
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-830-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

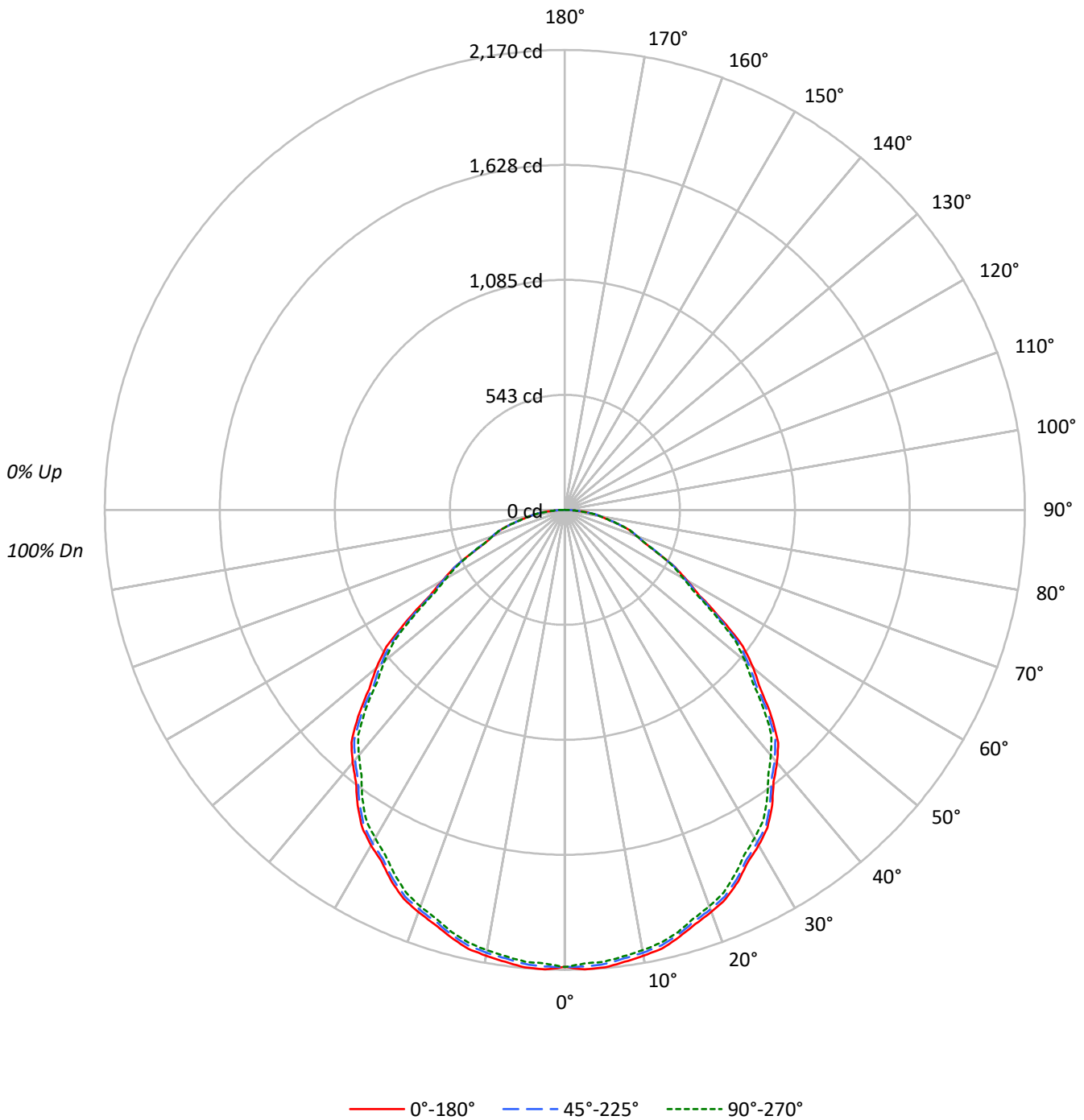
Lumens per Lamp: N/A  
Luminaire Lumens: 5391.7 lumens  
Efficiency: N/A  
Efficacy: 99.1 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Direct

Input Watts (W): 54.4  
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



TEST NUMBER: P564164  
CATALOG NUMBER: SQ4-PR1-0U-075D-830-1D-UNV-STD-W-8

### Luminous Intensity Polar Plot





TEST NUMBER: P564164

CATALOG NUMBER: SQ4-PR1-0U-075D-830-1D-UNV-STD-W-8

**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°	9950	9950	9950
5°	10039	9962	9910
10°	10007	9938	9885
15°	9963	9901	9848
20°	9913	9849	9776
25°	9844	9777	9664
30°	9737	9668	9530
35°	9593	9509	9374
40°	9374	9274	9106
45°	8993	8835	8653
50°	8319	8119	7959
55°	7261	7097	6947
60°	6119	6067	5947
65°	5293	5313	5272
70°	4861	4887	4887
75°	4668	4668	4702
80°	4391	4442	4391
85°	3541	3933	3933



TEST NUMBER: P564164

CATALOG NUMBER: SQ4-PR1-0U-075D-830-1D-UNV-STD-W-8

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	204.0	3.8
10°-20°	583.5	10.8
20°-30°	880.2	16.3
30°-40°	1048.7	19.5
40°-50°	1033.9	19.2
50°-60°	790.2	14.7
60°-70°	489.0	9.1
70°-80°	277.7	5.2
80°-90°	84.5	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°	1667.7	30.9
0°-40°	2716.4	50.4
0°-60°	4540.5	84.2
0°-90°	5391.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5391.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2157	2157	2157	2157	2157	
5°	2168	2144	2151	2144	2140	206
15°	2086	2064	2073	2066	2062	589
25°	1934	1910	1921	1900	1899	890
35°	1704	1684	1689	1666	1664	1063
45°	1378	1360	1354	1330	1326	1056
55°	903	888	882	868	864	809
65°	485	481	487	483	483	491
75°	262	262	262	264	264	277
85°	67	70	74	74	74	80
90°	0	0	0	0	0	



TEST NUMBER: P564164

CATALOG NUMBER: SQ4-PR1-0U-075D-830-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2156.8	2156.8	2156.8	2156.8	2156.8
2.5°	2170.2	2151.3	2156.8	2152.1	2141.9
5°	2167.9	2144.3	2151.2	2143.7	2140.1
7.5°	2151.2	2128.0	2134.9	2127.4	2125.2
10°	2136.3	2114.6	2121.5	2114.0	2110.3
12.5°	2120.0	2096.7	2105.1	2096.1	2092.5
15°	2086.2	2064.4	2073.2	2065.7	2062.0
17.5°	2049.0	2025.8	2034.5	2025.9	2021.2
20°	2019.3	1997.5	2006.3	1993.3	1991.4
22.5°	1986.6	1964.8	1973.6	1956.1	1955.8
25°	1933.9	1910.2	1920.9	1900.4	1898.6
27.5°	1871.1	1849.3	1858.1	1837.2	1835.0
30°	1828.0	1806.2	1815.0	1792.6	1789.0
32.5°	1778.9	1758.6	1765.9	1743.6	1741.4
35°	1703.5	1683.5	1688.6	1666.3	1664.5
37.5°	1617.7	1599.5	1602.4	1577.9	1576.1
40°	1556.7	1538.6	1540.0	1514.0	1512.2
42.5°	1489.9	1471.7	1470.2	1444.1	1442.3
45°	1378.4	1360.2	1354.3	1330.0	1326.4
47.5°	1251.3	1233.2	1222.0	1202.2	1199.7
50°	1159.2	1141.0	1131.3	1114.5	1109.0
52.5°	1059.6	1041.5	1033.2	1017.9	1012.4
55°	902.8	888.3	882.4	867.5	863.8
57.5°	753.9	744.0	742.3	727.8	726.4
60°	663.2	657.7	657.6	644.6	644.6
62.5°	585.9	581.9	584.8	576.2	574.8
65°	484.9	481.2	486.7	483.0	483.0
67.5°	405.0	405.0	408.3	406.8	406.8
70°	360.4	360.4	362.3	362.3	362.3
72.5°	320.3	318.8	323.6	323.6	322.1
75°	261.9	261.9	261.9	263.8	263.8
77.5°	204.0	204.3	205.8	205.4	204.0
80°	165.3	167.2	167.2	165.3	165.3
82.5°	126.7	128.5	128.6	128.1	126.7
85°	66.9	70.5	74.3	74.3	74.3
87.5°	19.3	25.1	29.7	29.7	28.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)