

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: P564203

Luminaire Tested: **SQ4-PR1-0U-100D-935-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564203
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-100D-935-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

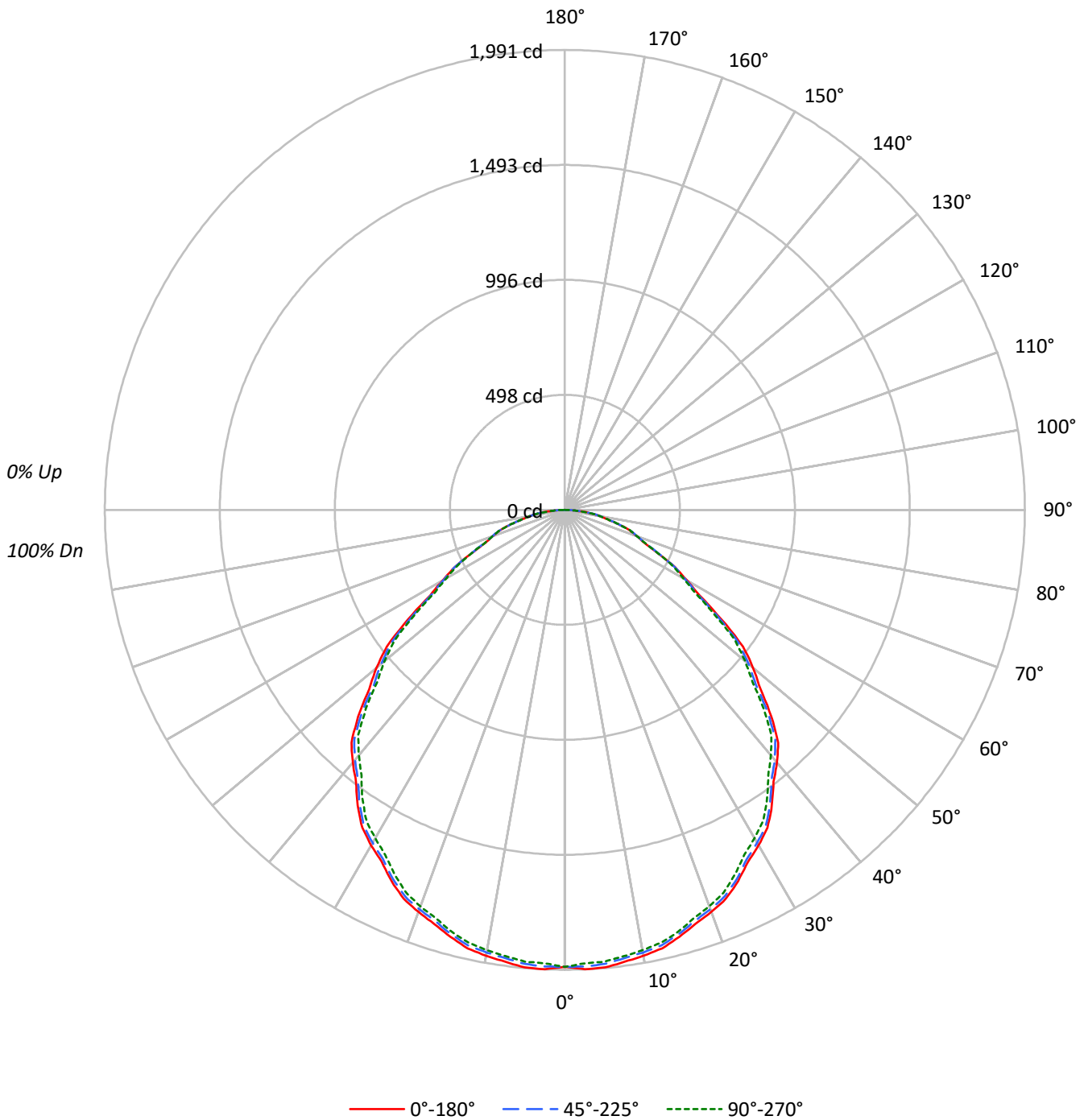
Lumens per Lamp: N/A
Luminaire Lumens: 4946.1 lumens
Efficiency: N/A
Efficacy: 89.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Direct

Input Watts (W): 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



TEST NUMBER: P564203
CATALOG NUMBER: SQ4-PR1-0U-100D-935-1D-UNV-STD-W-6

Luminous Intensity Polar Plot





TEST NUMBER: P564203

CATALOG NUMBER: SQ4-PR1-0U-100D-935-1D-UNV-STD-W-6

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				
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°	12169	12169	12169
5°	12279	12184	12121
10°	12240	12155	12091
15°	12187	12110	12045
20°	12125	12047	11957
25°	12040	11959	11820
30°	11910	11825	11656
35°	11734	11632	11465
40°	11467	11343	11138
45°	10999	10806	10584
50°	10176	9931	9735
55°	8881	8681	8497
60°	7484	7422	7274
65°	6474	6498	6449
70°	5945	5976	5976
75°	5711	5711	5751
80°	5373	5434	5373
85°	4326	4813	4813



TEST NUMBER: P564203

CATALOG NUMBER: SQ4-PR1-0U-100D-935-1D-UNV-STD-W-6

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.1	3.8
10°-20°	535.3	10.8
20°-30°	807.4	16.3
30°-40°	962.0	19.5
40°-50°	948.5	19.2
50°-60°	724.9	14.7
60°-70°	448.6	9.1
70°-80°	254.8	5.2
80°-90°	77.5	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°	1529.8	30.9
0°-40°	2491.9	50.4
0°-60°	4165.2	84.2
0°-90°	4946.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4946.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1978	1978	1978	1978	1978	
5°	1989	1967	1973	1966	1963	189
15°	1914	1894	1902	1895	1892	540
25°	1774	1752	1762	1743	1742	816
35°	1563	1544	1549	1529	1527	975
45°	1264	1248	1242	1220	1217	969
55°	828	815	810	796	792	742
65°	445	441	446	443	443	451
75°	240	240	240	242	242	254
85°	61	65	68	68	68	74
90°	0	0	0	0	0	



TEST NUMBER: P564203

CATALOG NUMBER: SQ4-PR1-0U-100D-935-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1978.5	1978.5	1978.5	1978.5	1978.5
2.5°	1990.8	1973.5	1978.5	1974.2	1964.9
5°	1988.7	1967.1	1973.4	1966.5	1963.2
7.5°	1973.4	1952.1	1958.4	1951.5	1949.5
10°	1959.8	1939.8	1946.1	1939.2	1935.9
12.5°	1944.8	1923.4	1931.1	1922.9	1919.6
15°	1913.8	1893.8	1901.8	1894.9	1891.6
17.5°	1879.7	1858.3	1866.4	1858.4	1854.1
20°	1852.4	1832.4	1840.5	1828.5	1826.8
22.5°	1822.4	1802.4	1810.5	1794.5	1794.1
25°	1774.0	1752.4	1762.1	1743.3	1741.6
27.5°	1716.4	1696.4	1704.5	1685.4	1683.4
30°	1676.9	1656.9	1665.0	1644.4	1641.1
32.5°	1631.9	1613.2	1620.0	1599.5	1597.5
35°	1562.7	1544.4	1549.1	1528.6	1526.9
37.5°	1484.0	1467.3	1470.0	1447.5	1445.8
40°	1428.1	1411.4	1412.7	1388.8	1387.2
42.5°	1366.7	1350.1	1348.7	1324.8	1323.1
45°	1264.5	1247.8	1242.3	1220.1	1216.8
47.5°	1147.9	1131.3	1121.0	1102.9	1100.5
50°	1063.4	1046.7	1037.8	1022.4	1017.4
52.5°	972.0	955.4	947.8	933.8	928.8
55°	828.2	814.9	809.5	795.8	792.4
57.5°	691.5	682.5	681.0	667.7	666.3
60°	608.4	603.4	603.3	591.3	591.3
62.5°	537.5	533.8	536.5	528.6	527.3
65°	444.8	441.4	446.5	443.1	443.1
67.5°	371.5	371.5	374.6	373.2	373.2
70°	330.6	330.6	332.3	332.3	332.3
72.5°	293.8	292.5	296.9	296.8	295.5
75°	240.3	240.3	240.3	242.0	242.0
77.5°	187.1	187.4	188.8	188.4	187.1
80°	151.7	153.3	153.4	151.7	151.7
82.5°	116.2	117.9	117.9	117.6	116.2
85°	61.3	64.7	68.2	68.2	68.2
87.5°	17.7	23.1	27.3	27.2	25.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)