

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: P564180

Luminaire Tested: **SQ4-PR1-0U-075D-935-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564180
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-935-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

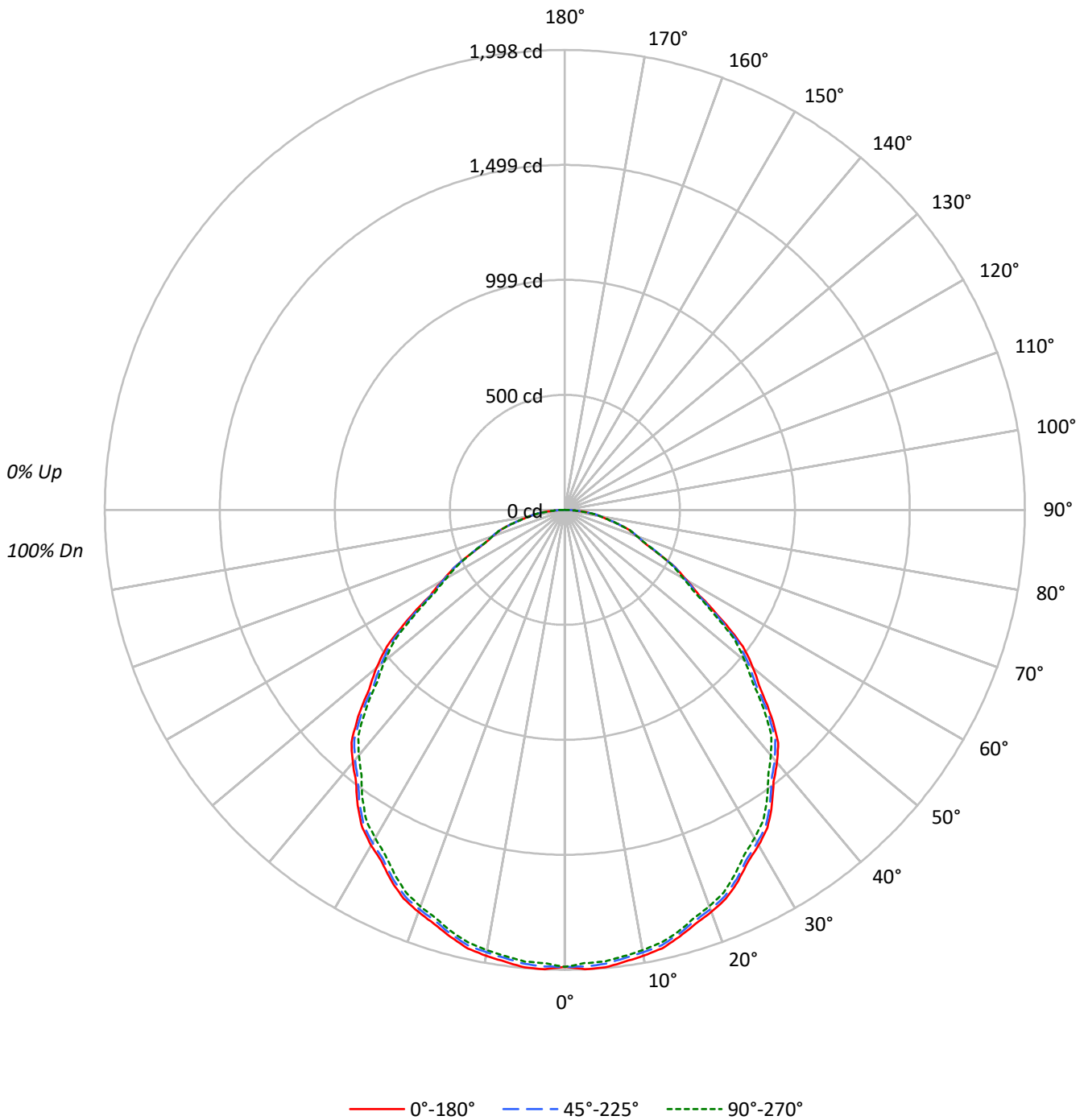
Lumens per Lamp: N/A
Luminaire Lumens: 4963.3 lumens
Efficiency: N/A
Efficacy: 91.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Direct

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



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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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85				85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72				72
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62				62
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54				54
5	78	66	57	51	76	65	57	50	63	55	50	61	54	49	59	53	49	47				47
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41				41
7	67	54	46	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37				37
8	63	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33				33
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30				30
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29	27				27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9159	9159	9159
5°	9242	9170	9123
10°	9212	9148	9100
15°	9172	9115	9065
20°	9126	9067	8999
25°	9061	9000	8896
30°	8963	8900	8772
35°	8831	8754	8629
40°	8630	8537	8383
45°	8278	8133	7966
50°	7658	7474	7327
55°	6684	6533	6396
60°	5633	5586	5475
65°	4872	4890	4853
70°	4475	4498	4498
75°	4297	4297	4328
80°	4043	4088	4043
85°	3260	3620	3620



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.8	3.8
10°-20°	537.2	10.8
20°-30°	810.2	16.3
30°-40°	965.4	19.5
40°-50°	951.8	19.2
50°-60°	727.4	14.7
60°-70°	450.1	9.1
70°-80°	255.7	5.2
80°-90°	77.8	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°	1535.1	30.9
0°-40°	2500.5	50.4
0°-60°	4179.7	84.2
0°-90°	4963.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4963.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1985	1985	1985	1985	1985	
5°	1996	1974	1980	1973	1970	189
15°	1920	1900	1908	1902	1898	542
25°	1780	1758	1768	1749	1748	819
35°	1568	1550	1554	1534	1532	979
45°	1269	1252	1247	1224	1221	972
55°	831	818	812	798	795	745
65°	446	443	448	445	445	452
75°	241	241	241	243	243	255
85°	62	65	68	68	68	74
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1985.4	1985.4	1985.4	1985.4	1985.4
2.5°	1997.7	1980.3	1985.4	1981.1	1971.7
5°	1995.7	1973.9	1980.3	1973.4	1970.0
7.5°	1980.3	1958.9	1965.2	1958.3	1956.3
10°	1966.6	1946.5	1952.9	1946.0	1942.7
12.5°	1951.5	1930.1	1937.9	1929.6	1926.2
15°	1920.4	1900.4	1908.5	1901.5	1898.2
17.5°	1886.2	1864.8	1872.9	1864.9	1860.6
20°	1858.9	1838.8	1846.9	1834.9	1833.2
22.5°	1828.8	1808.7	1816.8	1800.7	1800.4
25°	1780.2	1758.5	1768.2	1749.4	1747.7
27.5°	1722.4	1702.3	1710.4	1691.2	1689.2
30°	1682.7	1662.7	1670.8	1650.2	1646.8
32.5°	1637.6	1618.9	1625.6	1605.0	1603.0
35°	1568.1	1549.8	1554.5	1533.9	1532.2
37.5°	1489.1	1472.4	1475.1	1452.5	1450.8
40°	1433.1	1416.3	1417.7	1393.7	1392.0
42.5°	1371.5	1354.8	1353.4	1329.4	1327.7
45°	1268.9	1252.2	1246.7	1224.3	1221.0
47.5°	1151.9	1135.2	1124.9	1106.7	1104.4
50°	1067.1	1050.4	1041.4	1025.9	1020.9
52.5°	975.4	958.7	951.1	937.0	932.0
55°	831.1	817.7	812.3	798.5	795.2
57.5°	694.0	684.9	683.4	670.0	668.6
60°	610.5	605.5	605.4	593.4	593.4
62.5°	539.4	535.7	538.3	530.4	529.1
65°	446.3	443.0	448.0	444.6	444.6
67.5°	372.8	372.8	375.9	374.5	374.5
70°	331.8	331.8	333.5	333.5	333.5
72.5°	294.8	293.5	297.9	297.9	296.5
75°	241.1	241.1	241.1	242.8	242.8
77.5°	187.8	188.1	189.5	189.1	187.8
80°	152.2	153.9	153.9	152.2	152.2
82.5°	116.6	118.3	118.3	118.0	116.6
85°	61.6	64.9	68.4	68.4	68.4
87.5°	17.8	23.1	27.4	27.3	26.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)