

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: P563512

Luminaire Tested: **SQ4-PP3-0U-075D-940-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563512
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-0U-075D-940-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

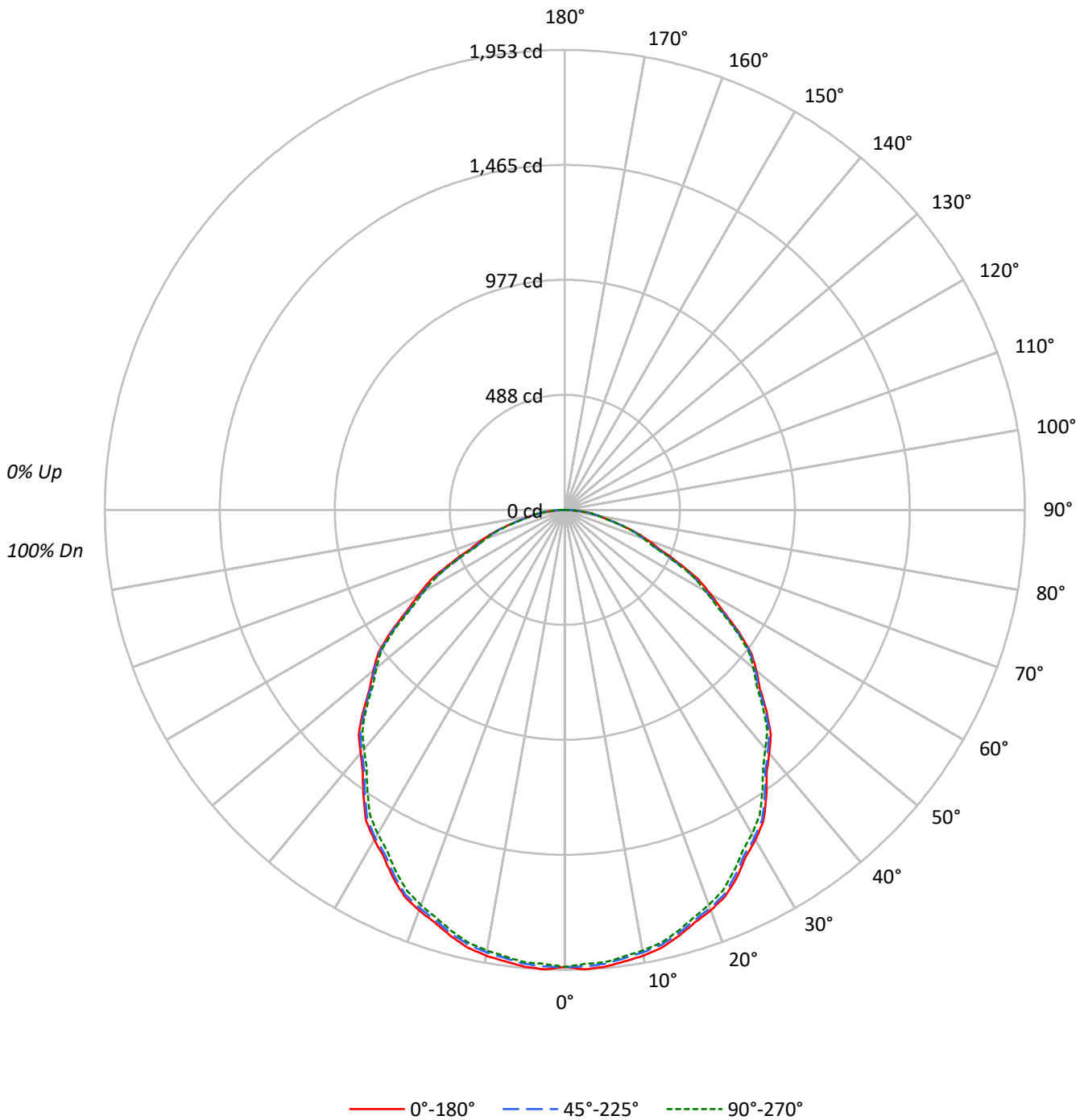
Lumens per Lamp: N/A
Luminaire Lumens: 4967.5 lumens
Efficiency: N/A
Efficacy: 91.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Direct

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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85				85
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	72				72
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61				61
4	84	72	64	57	82	71	63	57	69	62	56	66	60	56	64	59	55	53				53
5	77	65	56	50	75	64	56	49	62	54	49	60	53	48	58	52	48	46				46
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40				40
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36				36
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34	32				32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29				29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26				26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8953	8953	8953
5°	9019	8964	8932
10°	9004	8940	8900
15°	8944	8895	8847
20°	8885	8835	8768
25°	8779	8719	8632
30°	8617	8571	8463
35°	8392	8334	8229
40°	8123	8072	7980
45°	7901	7846	7768
50°	7617	7569	7495
55°	7223	7127	7073
60°	6576	6387	6356
65°	5793	5552	5533
70°	5001	4795	4795
75°	4304	4244	4183
80°	3796	3841	3751
85°	2969	3239	3239



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.5	3.7
10°-20°	524.0	10.5
20°-30°	784.9	15.8
30°-40°	920.7	18.5
40°-50°	923.5	18.6
50°-60°	787.9	15.9
60°-70°	513.8	10.3
70°-80°	257.8	5.2
80°-90°	71.3	1.4
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°	1492.5	30.0
0°-40°	2413.1	48.6
0°-60°	4124.5	83.0
0°-90°	4967.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4967.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1941	1941	1941	1941	1941	
5°	1948	1929	1936	1929	1929	185
15°	1873	1854	1863	1856	1852	528
25°	1725	1705	1713	1698	1696	793
35°	1490	1475	1480	1463	1461	931
45°	1211	1203	1203	1191	1191	933
55°	898	895	886	881	879	798
65°	531	521	509	505	507	530
75°	242	242	238	236	235	262
85°	56	61	61	61	61	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1940.8	1940.8	1940.8	1940.8	1940.8
2.5°	1953.1	1937.1	1940.8	1937.9	1930.0
5°	1947.6	1929.4	1935.7	1928.9	1928.9
7.5°	1934.4	1914.4	1920.8	1914.0	1913.6
10°	1922.1	1902.2	1908.5	1901.7	1900.0
12.5°	1904.4	1884.5	1892.2	1884.0	1883.7
15°	1872.8	1854.5	1862.6	1855.7	1852.4
17.5°	1837.1	1817.1	1826.9	1817.3	1816.0
20°	1809.9	1789.9	1799.7	1786.1	1786.1
22.5°	1777.2	1757.2	1768.4	1750.7	1750.7
25°	1724.8	1704.9	1712.9	1697.6	1695.9
27.5°	1662.6	1642.9	1651.3	1634.0	1633.6
30°	1617.7	1599.4	1609.1	1590.4	1588.7
32.5°	1568.7	1551.7	1558.8	1540.0	1538.4
35°	1490.1	1475.1	1479.9	1462.8	1461.2
37.5°	1407.4	1392.1	1397.5	1382.9	1382.2
40°	1348.9	1338.9	1340.4	1328.4	1325.1
42.5°	1294.5	1283.2	1284.6	1272.7	1272.0
45°	1211.1	1202.8	1202.6	1190.7	1190.7
47.5°	1122.7	1116.3	1114.5	1104.6	1104.3
50°	1061.4	1056.4	1054.6	1046.1	1044.4
52.5°	997.5	995.1	989.3	982.2	981.8
55°	898.1	894.8	886.2	881.1	879.4
57.5°	790.3	783.6	774.0	766.5	767.8
60°	712.7	706.1	692.3	688.9	688.9
62.5°	637.9	629.9	616.1	611.4	614.1
65°	530.7	520.7	508.6	505.2	506.9
67.5°	433.4	424.4	411.3	411.3	409.9
70°	370.8	365.8	355.5	355.5	355.5
72.5°	315.0	312.7	305.2	305.1	303.8
75°	241.5	241.5	238.1	236.4	234.7
77.5°	181.0	181.7	180.0	178.2	175.2
80°	142.9	146.2	144.6	142.8	141.2
82.5°	107.5	110.8	110.6	107.5	107.2
85°	56.1	61.1	61.2	61.2	61.2
87.5°	15.0	20.3	21.8	21.8	23.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)