

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: P564245

Luminaire Tested: **SQ4-PR1-100U-050D-930-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564245
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-PR1-100U-050D-930-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

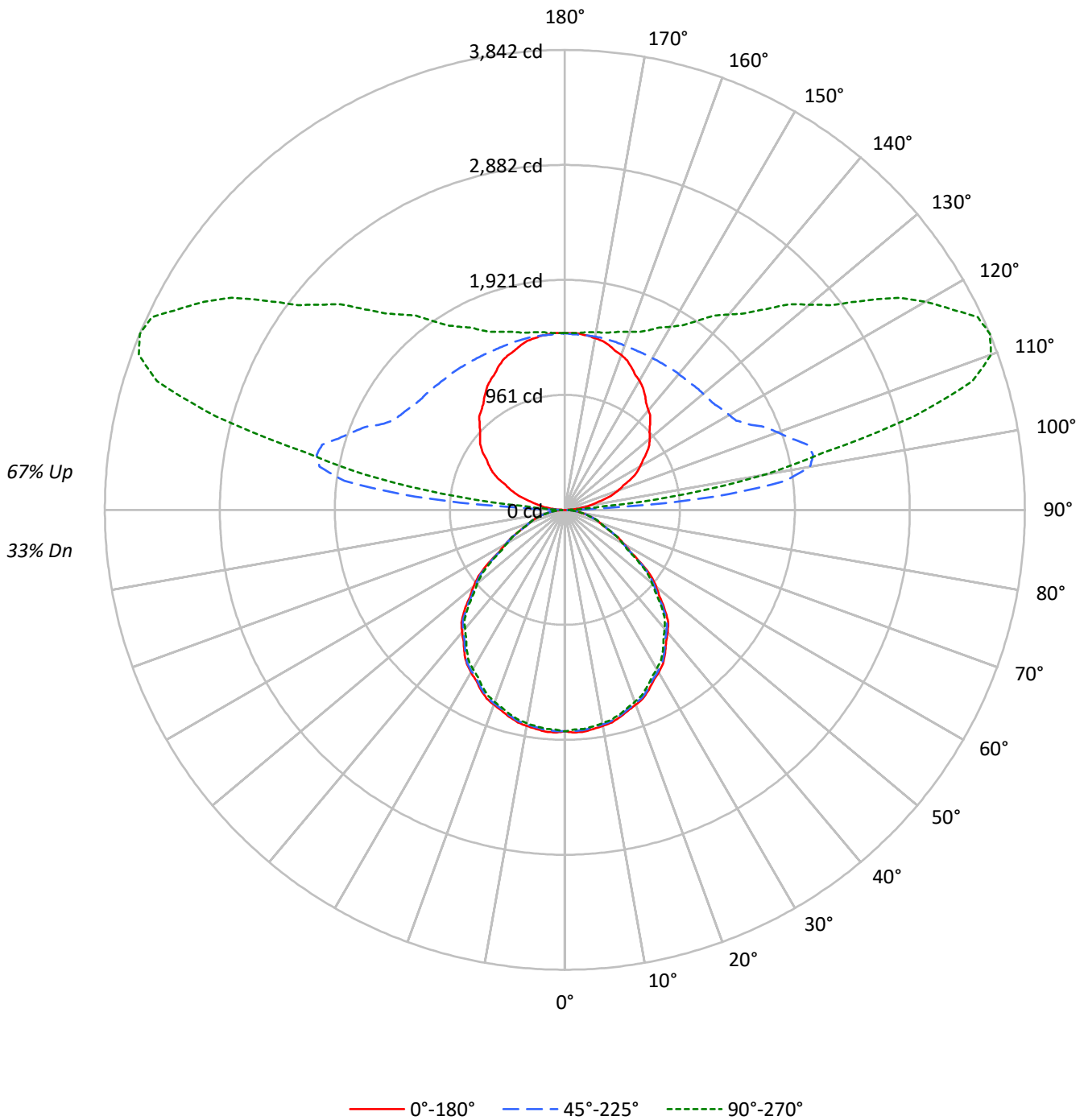
Lumens per Lamp: N/A
Luminaire Lumens: 14217.2 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 127.4
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	103	103	103	103	93	93	93	93	74	74	74	56	56	56	40	40	40	33
1	94	90	86	83	85	81	78	75	65	63	61	50	48	47	36	35	34	28
2	86	79	73	68	77	71	66	62	57	53	50	44	42	40	32	30	29	24
3	78	69	62	57	70	63	57	52	50	46	43	39	36	34	28	26	25	20
4	72	61	54	48	64	56	49	44	45	40	36	35	31	29	25	23	22	17
5	66	55	47	41	59	50	43	38	40	35	31	31	28	25	23	21	19	15
6	60	49	41	35	54	44	38	33	36	31	27	28	25	22	21	18	17	13
7	56	44	36	31	50	40	33	29	33	28	24	25	22	19	19	17	15	12
8	52	40	32	27	47	36	30	25	30	25	21	23	20	17	17	15	13	11
9	48	36	29	24	43	33	27	22	27	22	19	21	18	15	16	14	12	10
10	45	33	26	22	40	30	24	20	25	20	17	20	16	14	15	12	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5691	5691	5691
5°	5742	5698	5669
10°	5724	5684	5655
15°	5699	5664	5633
20°	5670	5634	5592
25°	5630	5593	5528
30°	5570	5530	5451
35°	5487	5439	5362
40°	5362	5305	5209
45°	5144	5053	4949
50°	4759	4644	4553
55°	4153	4059	3974
60°	3500	3470	3402
65°	3027	3039	3016
70°	2780	2795	2795
75°	2670	2670	2689
80°	2513	2541	2513
85°	2025	2251	2251



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.0	1.2
10°-20°	500.7	3.5
20°-30°	755.2	5.3
30°-40°	899.8	6.3
40°-50°	887.1	6.2
50°-60°	678.0	4.8
60°-70°	419.6	3.0
70°-80°	238.3	1.7
80°-90°	75.6	0.5
90°-100°	691.1	4.9
100°-110°	1907.8	13.4
110°-120°	1967.5	13.8
120°-130°	1581.1	11.1
130°-140°	1242.6	8.7
140°-150°	953.0	6.7
150°-160°	684.9	4.8
160°-170°	418.9	2.9
170°-180°	141.2	1.0
0°-30°	1430.8	10.1
0°-40°	2330.6	16.4
0°-60°	3895.7	27.4
0°-90°	4629.1	32.6
90°-120°	4566.4	32.1
90°-150°	8343.0	58.7
90°-180°	9588.0	67.4
0°-180°	14217.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1850	1850	1850	1850	1850	
5°	1860	1840	1846	1839	1836	176
15°	1790	1771	1779	1772	1769	505
25°	1659	1639	1648	1630	1629	764
35°	1462	1444	1449	1430	1428	912
45°	1183	1167	1162	1141	1138	906
55°	775	762	757	744	741	694
65°	416	413	418	414	414	421
75°	225	225	225	226	226	237
85°	57	60	64	64	64	67
90°	5	9	19	21	24	10
95°	102	374	1254	515	335	109
105°	340	525	2099	3204	3017	362
115°	609	736	1690	3347	3806	599
125°	836	951	1532	2593	3043	744
135°	1006	1114	1490	2100	2368	778
145°	1166	1247	1471	1788	1924	730
155°	1315	1359	1459	1604	1655	606
165°	1424	1442	1466	1523	1535	401
175°	1476	1478	1469	1490	1485	140
180°	1476	1476	1476	1476	1476	



TEST NUMBER: P564245

CATALOG NUMBER: SQ4-PR1-100U-050D-930-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1850.5	1850.5	1850.5	1850.5	1850.5
2.5°	1862.0	1845.8	1850.5	1846.5	1837.8
5°	1860.1	1839.8	1845.7	1839.3	1836.2
7.5°	1845.7	1825.8	1831.7	1825.3	1823.4
10°	1833.0	1814.3	1820.2	1813.8	1810.7
12.5°	1818.9	1799.0	1806.2	1798.5	1795.4
15°	1789.9	1771.2	1778.8	1772.3	1769.2
17.5°	1758.1	1738.1	1745.6	1738.2	1734.2
20°	1732.6	1713.9	1721.4	1710.2	1708.7
22.5°	1704.5	1685.8	1693.4	1678.4	1678.0
25°	1659.2	1639.0	1648.1	1630.5	1629.0
27.5°	1605.4	1586.7	1594.2	1576.3	1574.4
30°	1568.4	1549.7	1557.2	1538.0	1534.9
32.5°	1526.3	1508.9	1515.2	1496.0	1494.1
35°	1461.6	1444.5	1448.8	1429.7	1428.1
37.5°	1388.0	1372.4	1374.9	1353.8	1352.3
40°	1335.7	1320.1	1321.3	1299.0	1297.4
42.5°	1278.3	1262.7	1261.4	1239.1	1237.5
45°	1182.7	1167.1	1161.9	1141.2	1138.0
47.5°	1073.6	1058.1	1048.5	1031.5	1029.3
50°	994.6	979.0	970.7	956.2	951.6
52.5°	909.2	893.6	886.5	873.3	868.7
55°	774.6	762.2	757.1	744.3	741.2
57.5°	646.8	638.4	636.9	624.5	623.2
60°	569.0	564.3	564.2	553.1	553.1
62.5°	502.7	499.3	501.8	494.4	493.2
65°	416.0	412.9	417.6	414.4	414.4
67.5°	347.5	347.5	350.3	349.1	349.1
70°	309.2	309.2	310.8	310.8	310.8
72.5°	274.8	273.5	277.7	277.6	276.4
75°	224.7	224.7	224.7	226.3	226.3
77.5°	175.0	175.3	176.6	176.3	175.0
80°	141.9	143.4	143.5	141.9	141.9
82.5°	108.7	110.3	110.3	110.0	108.7
85°	57.4	60.5	63.8	63.8	63.8
87.5°	17.5	23.4	29.3	29.7	28.9
90°	4.7	9.3	18.9	21.3	23.6
92.5°	42.5	176.4	315.4	115.1	89.7
95°	101.5	373.9	1253.7	515.3	335.3
97.5°	168.1	418.8	1857.2	1429.9	1035.6
100°	217.2	445.8	2080.1	2094.8	1702.3
102.5°	264.4	476.4	2123.5	2588.2	2216.1
105°	340.0	524.7	2099.0	3204.4	3017.4
107.5°	420.3	584.6	1981.9	3501.6	3569.9
110°	476.9	624.7	1891.2	3565.5	3787.1



TEST NUMBER: P564245

CATALOG NUMBER: SQ4-PR1-100U-050D-930-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	527.9	670.1	1806.2	3515.0	3841.9
115°	609.1	736.1	1690.5	3346.6	3806.0
117.5°	680.0	806.5	1614.5	3109.6	3632.2
120°	727.2	851.9	1584.3	2949.1	3475.5
122.5°	772.5	891.7	1559.7	2799.3	3297.9
125°	835.8	951.2	1532.3	2593.2	3043.4
127.5°	889.6	1005.1	1516.3	2419.0	2807.3
130°	925.5	1041.0	1508.7	2312.4	2665.6
132.5°	959.5	1069.4	1501.2	2222.9	2542.8
135°	1005.8	1114.3	1489.8	2100.3	2368.1
137.5°	1057.7	1156.6	1484.2	1997.4	2226.0
140°	1086.1	1183.0	1480.4	1928.8	2129.7
142.5°	1118.2	1207.8	1476.6	1867.8	2044.7
145°	1166.4	1247.2	1470.9	1788.0	1924.3
147.5°	1212.6	1283.3	1465.7	1720.8	1826.5
150°	1246.6	1304.3	1463.8	1680.6	1766.1
152.5°	1273.1	1327.1	1462.0	1646.3	1717.0
155°	1315.1	1359.0	1459.1	1604.3	1655.1
157.5°	1353.8	1387.5	1459.6	1573.7	1608.3
160°	1376.5	1406.5	1461.5	1556.5	1581.9
162.5°	1395.4	1421.7	1463.4	1541.3	1561.1
165°	1423.7	1442.2	1466.2	1523.1	1534.7
167.5°	1445.4	1456.5	1468.6	1512.1	1515.8
170°	1456.8	1466.0	1468.6	1506.3	1506.3
172.5°	1466.2	1471.7	1468.6	1498.7	1496.9
175°	1475.7	1478.0	1468.6	1489.7	1485.1
177.5°	1479.4	1477.6	1468.1	1481.2	1477.5
180°	1475.7	1475.7	1475.7	1475.7	1475.7

(END OF REPORT)