

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: P564464

Luminaire Tested: **SQ4-PR1-150U-075D-930-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564464
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, 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-PR1-150U-075D-930-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

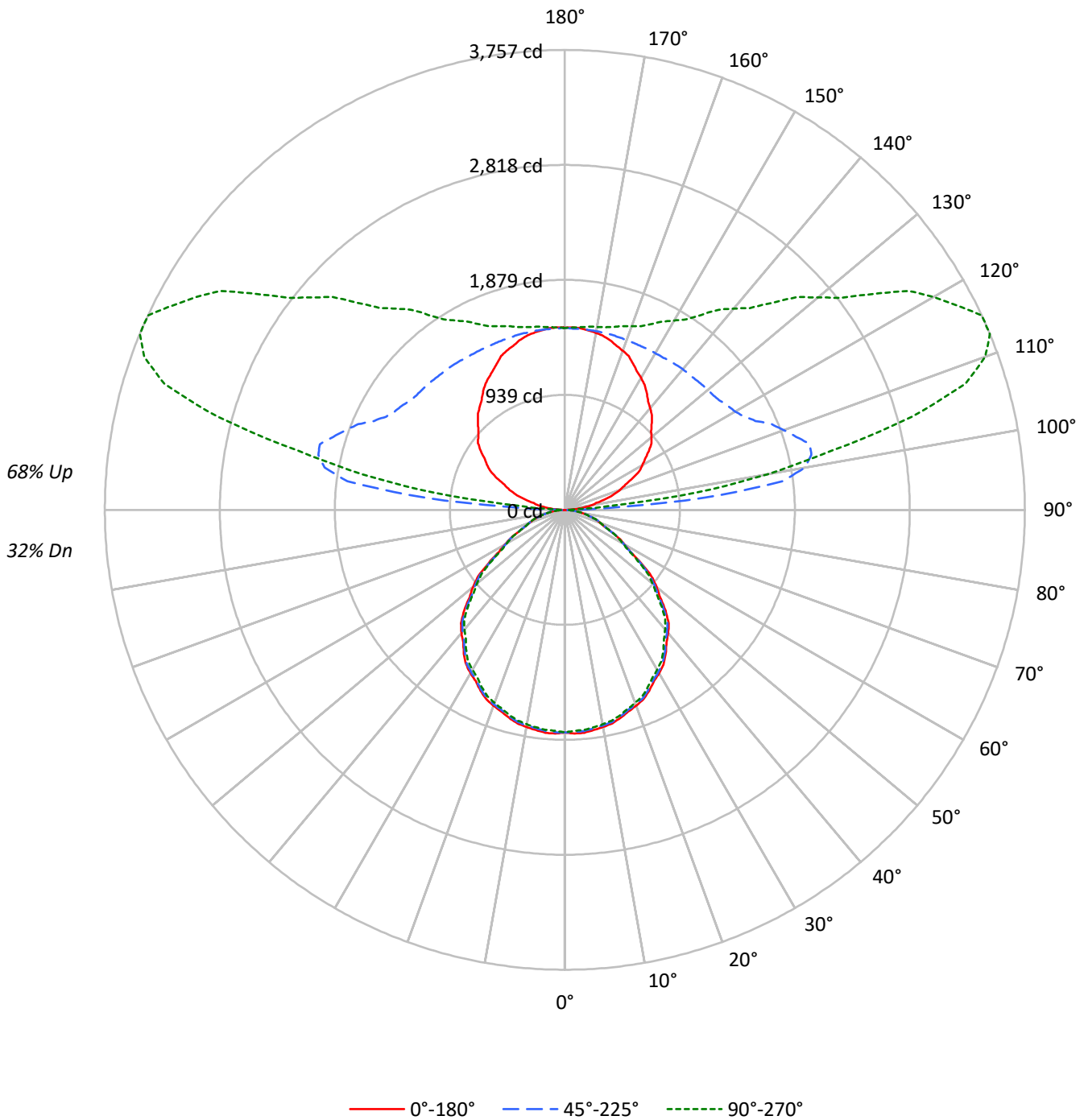
Lumens per Lamp: N/A
Luminaire Lumens: 14135.8 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 131.1
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: P564464
CATALOG NUMBER: SQ4-PR1-150U-075D-930-1D-UNV-STD-W-8

Luminous Intensity Polar Plot





TEST NUMBER: P564464

CATALOG NUMBER: SQ4-PR1-150U-075D-930-1D-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	103	103	103	103	93	93	93	93	73	73	73	56	56	56	40	40	40	32
1	94	90	86	83	84	81	78	75	65	62	60	49	48	47	35	35	34	27
2	86	79	73	68	77	71	66	62	57	53	50	44	41	39	31	30	29	23
3	78	69	62	57	70	63	57	52	50	46	42	39	36	33	28	26	25	20
4	72	61	54	48	64	55	49	44	45	40	36	34	31	29	25	23	21	17
5	66	55	47	41	59	49	43	38	40	35	31	31	28	25	23	20	19	15
6	60	49	41	35	54	44	38	33	36	31	27	28	24	22	20	18	16	13
7	56	44	36	31	50	40	33	29	32	27	24	25	22	19	19	16	15	12
8	52	40	32	27	46	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°	8388	8388	8388
5°	8464	8398	8355
10°	8437	8378	8334
15°	8400	8347	8302
20°	8357	8303	8242
25°	8299	8243	8147
30°	8209	8150	8034
35°	8088	8017	7903
40°	7903	7818	7677
45°	7581	7448	7295
50°	7014	6845	6710
55°	6121	5983	5857
60°	5158	5115	5014
65°	4462	4479	4445
70°	4098	4119	4119
75°	3935	3935	3964
80°	3703	3746	3703
85°	2985	3313	3313



TEST NUMBER: P564464

CATALOG NUMBER: SQ4-PR1-150U-075D-930-1D-UNV-STD-W-8

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.9	1.2
10°-20°	492.0	3.5
20°-30°	742.0	5.2
30°-40°	884.1	6.3
40°-50°	871.7	6.2
50°-60°	666.2	4.7
60°-70°	412.3	2.9
70°-80°	234.2	1.7
80°-90°	74.3	0.5
90°-100°	691.1	4.9
100°-110°	1868.5	13.2
110°-120°	1964.4	13.9
120°-130°	1595.6	11.3
130°-140°	1251.7	8.9
140°-150°	960.7	6.8
150°-160°	690.9	4.9
160°-170°	422.1	3.0
170°-180°	142.3	1.0
0°-30°	1405.9	9.9
0°-40°	2290.1	16.2
0°-60°	3827.9	27.1
0°-90°	4548.6	32.2
90°-120°	4524.0	32.0
90°-150°	8331.9	58.9
90°-180°	9587.0	67.8
0°-180°	14135.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1818	1818	1818	1818	1818	
5°	1828	1808	1814	1807	1804	173
15°	1759	1740	1748	1742	1738	496
25°	1630	1610	1619	1602	1601	750
35°	1436	1419	1424	1405	1403	896
45°	1162	1147	1142	1121	1118	890
55°	761	749	744	731	728	682
65°	409	406	410	407	407	414
75°	221	221	221	222	222	233
85°	56	59	63	63	63	66
90°	3	10	21	22	21	9
95°	107	376	1149	595	354	112
105°	347	537	2073	3058	2932	366
115°	611	748	1719	3328	3757	604
125°	837	959	1549	2615	3072	746
135°	1004	1122	1508	2111	2390	776
145°	1167	1254	1487	1807	1945	730
155°	1317	1369	1474	1621	1674	608
165°	1434	1448	1481	1538	1546	404
175°	1489	1487	1482	1501	1498	141
180°	1487	1487	1487	1487	1487	

TEST NUMBER: P564464

CATALOG NUMBER: SQ4-PR1-150U-075D-930-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1818.3	1818.3	1818.3	1818.3	1818.3
2.5°	1829.6	1813.6	1818.3	1814.3	1805.8
5°	1827.7	1807.8	1813.6	1807.3	1804.2
7.5°	1813.6	1794.0	1799.8	1793.5	1791.7
10°	1801.1	1782.7	1788.5	1782.2	1779.1
12.5°	1787.3	1767.7	1774.8	1767.2	1764.1
15°	1758.8	1740.4	1747.8	1741.5	1738.4
17.5°	1727.5	1707.9	1715.2	1707.9	1704.0
20°	1702.4	1684.0	1691.4	1680.4	1678.9
22.5°	1674.8	1656.5	1663.9	1649.1	1648.8
25°	1630.4	1610.4	1619.4	1602.1	1600.6
27.5°	1577.4	1559.0	1566.5	1548.9	1547.0
30°	1541.1	1522.7	1530.1	1511.3	1508.2
32.5°	1499.7	1482.6	1488.8	1469.9	1468.1
35°	1436.2	1419.3	1423.6	1404.8	1403.3
37.5°	1363.8	1348.5	1351.0	1330.2	1328.7
40°	1312.4	1297.1	1298.3	1276.4	1274.8
42.5°	1256.0	1240.7	1239.4	1217.5	1216.0
45°	1162.1	1146.8	1141.7	1121.3	1118.2
47.5°	1055.0	1039.6	1030.2	1013.6	1011.4
50°	977.3	962.0	953.8	939.6	935.0
52.5°	893.3	878.0	871.1	858.1	853.5
55°	761.1	748.9	743.9	731.3	728.3
57.5°	635.5	627.3	625.8	613.6	612.4
60°	559.1	554.5	554.4	543.5	543.5
62.5°	494.0	490.6	493.0	485.8	484.6
65°	408.8	405.7	410.3	407.2	407.2
67.5°	341.4	341.4	344.2	343.0	343.0
70°	303.8	303.8	305.4	305.4	305.4
72.5°	270.0	268.8	272.8	272.8	271.6
75°	220.8	220.8	220.8	222.4	222.4
77.5°	172.0	172.3	173.5	173.2	172.0
80°	139.4	140.9	141.0	139.4	139.4
82.5°	106.8	108.3	108.4	108.0	106.8
85°	56.4	59.4	62.6	62.6	62.6
87.5°	16.9	23.1	29.2	29.5	28.0
90°	3.2	9.5	20.8	22.4	20.8
92.5°	45.5	165.7	326.8	141.9	102.8
95°	107.2	376.4	1149.3	594.8	353.7
97.5°	172.2	431.7	1791.4	1482.5	1088.8
100°	220.9	454.1	1991.2	2076.6	1679.1
102.5°	265.7	485.1	2061.6	2527.0	2229.7
105°	347.3	536.7	2072.8	3057.6	2932.4
107.5°	422.9	595.7	1982.2	3388.5	3430.2
110°	481.8	638.3	1901.6	3477.4	3654.3



TEST NUMBER: P564464

CATALOG NUMBER: SQ4-PR1-150U-075D-930-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	534.3	680.8	1827.3	3459.6	3756.7
115°	611.4	747.6	1719.1	3327.9	3756.7
117.5°	687.0	814.7	1647.7	3126.5	3612.6
120°	733.1	858.3	1605.4	2982.1	3478.2
122.5°	776.6	899.3	1579.8	2827.2	3327.1
125°	837.1	959.2	1549.4	2614.6	3071.6
127.5°	892.8	1012.7	1531.5	2441.1	2843.0
130°	923.6	1047.2	1523.8	2334.0	2697.1
132.5°	955.6	1078.0	1516.1	2237.3	2571.6
135°	1003.6	1122.5	1507.8	2111.2	2389.7
137.5°	1051.9	1164.3	1500.8	2008.8	2235.8
140°	1085.2	1190.1	1498.2	1943.0	2144.9
142.5°	1117.2	1215.8	1493.1	1883.5	2060.3
145°	1166.9	1254.5	1487.0	1807.0	1944.8
147.5°	1212.0	1289.6	1479.9	1737.8	1843.6
150°	1245.3	1314.2	1477.4	1700.2	1784.7
152.5°	1276.0	1336.1	1476.1	1665.3	1734.8
155°	1317.3	1369.0	1474.2	1621.1	1674.3
157.5°	1360.2	1396.2	1474.5	1590.2	1625.3
160°	1384.5	1414.3	1475.8	1570.8	1595.8
162.5°	1403.8	1428.5	1477.1	1555.3	1574.1
165°	1434.2	1448.3	1480.6	1538.4	1546.2
167.5°	1455.0	1464.7	1480.9	1523.9	1527.6
170°	1467.8	1472.5	1482.2	1517.4	1517.4
172.5°	1478.0	1479.0	1482.2	1509.7	1508.4
175°	1488.6	1487.0	1482.2	1501.3	1498.2
177.5°	1492.1	1488.4	1481.9	1494.6	1490.8
180°	1487.0	1487.0	1487.0	1487.0	1487.0

(END OF REPORT)