

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: P564459

Luminaire Tested: **SQ4-PR1-150U-075D-840-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564459
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-840-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

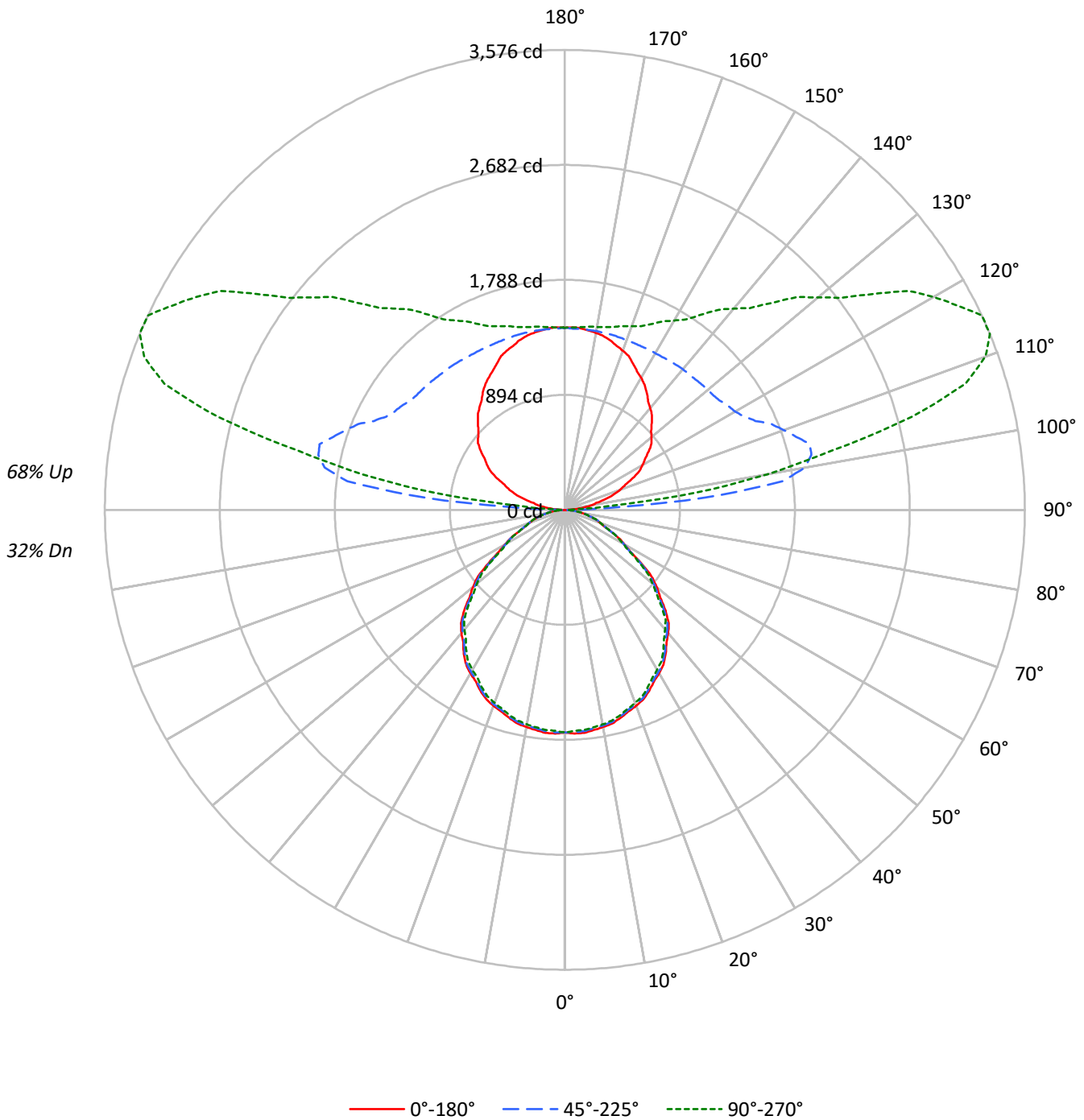
Lumens per Lamp: N/A
Luminaire Lumens: 13457.1 lumens
Efficiency: N/A
Efficacy: 137.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 97.8
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: P564459
CATALOG NUMBER: SQ4-PR1-150U-075D-840-1D-UNV-STD-W-6

Luminous Intensity Polar Plot





TEST NUMBER: P564459

CATALOG NUMBER: SQ4-PR1-150U-075D-840-1D-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	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°	10647	10647	10647
5°	10743	10660	10605
10°	10709	10635	10578
15°	10662	10595	10538
20°	10608	10540	10462
25°	10534	10462	10341
30°	10420	10346	10198
35°	10266	10177	10031
40°	10032	9924	9744
45°	9623	9454	9260
50°	8902	8689	8517
55°	7770	7594	7435
60°	6548	6493	6365
65°	5663	5685	5641
70°	5201	5228	5228
75°	4995	4995	5031
80°	4700	4754	4700
85°	3790	4206	4206



TEST NUMBER: P564459

CATALOG NUMBER: SQ4-PR1-150U-075D-840-1D-UNV-STD-W-6

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.7	1.2
10°-20°	468.3	3.5
20°-30°	706.4	5.2
30°-40°	841.7	6.3
40°-50°	829.8	6.2
50°-60°	634.2	4.7
60°-70°	392.4	2.9
70°-80°	222.9	1.7
80°-90°	70.8	0.5
90°-100°	657.9	4.9
100°-110°	1778.8	13.2
110°-120°	1870.1	13.9
120°-130°	1519.0	11.3
130°-140°	1191.6	8.9
140°-150°	914.5	6.8
150°-160°	657.7	4.9
160°-170°	401.8	3.0
170°-180°	135.5	1.0
0°-30°	1338.4	9.9
0°-40°	2180.1	16.2
0°-60°	3644.1	27.1
0°-90°	4330.2	32.2
90°-120°	4306.8	32.0
90°-150°	7931.9	58.9
90°-180°	9127.0	67.8
0°-180°	13457.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1731	1731	1731	1731	1731	
5°	1740	1721	1726	1720	1718	165
15°	1674	1657	1664	1658	1655	472
25°	1552	1533	1542	1525	1524	714
35°	1367	1351	1355	1337	1336	853
45°	1106	1092	1087	1067	1064	848
55°	725	713	708	696	693	649
65°	389	386	391	388	388	394
75°	210	210	210	212	212	222
85°	54	57	60	60	60	62
90°	3	9	20	21	20	9
95°	102	358	1094	566	337	107
105°	331	511	1973	2911	2792	348
115°	582	712	1636	3168	3576	575
125°	797	913	1475	2489	2924	710
135°	955	1069	1435	2010	2275	738
145°	1111	1194	1416	1720	1851	695
155°	1254	1303	1403	1543	1594	578
165°	1365	1379	1410	1464	1472	385
175°	1417	1416	1411	1429	1426	135
180°	1416	1416	1416	1416	1416	

TEST NUMBER: P564459

CATALOG NUMBER: SQ4-PR1-150U-075D-840-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1731.0	1731.0	1731.0	1731.0	1731.0
2.5°	1741.7	1726.6	1731.0	1727.2	1719.1
5°	1739.9	1721.0	1726.5	1720.5	1717.6
7.5°	1726.5	1707.9	1713.4	1707.4	1705.6
10°	1714.6	1697.1	1702.7	1696.6	1693.7
12.5°	1701.5	1682.8	1689.5	1682.3	1679.4
15°	1674.3	1656.8	1663.9	1657.9	1654.9
17.5°	1644.5	1625.9	1632.9	1625.9	1622.1
20°	1620.7	1603.2	1610.2	1599.7	1598.3
22.5°	1594.4	1576.9	1584.0	1570.0	1569.7
25°	1552.1	1533.1	1541.6	1525.2	1523.7
27.5°	1501.7	1484.2	1491.2	1474.5	1472.8
30°	1467.1	1449.6	1456.7	1438.7	1435.8
32.5°	1427.7	1411.4	1417.3	1399.4	1397.6
35°	1367.2	1351.2	1355.3	1337.3	1335.9
37.5°	1298.3	1283.7	1286.1	1266.4	1264.9
40°	1249.4	1234.8	1236.0	1215.1	1213.6
42.5°	1195.7	1181.2	1179.9	1159.0	1157.6
45°	1106.3	1091.7	1086.9	1067.4	1064.5
47.5°	1004.3	989.7	980.7	964.9	962.9
50°	930.3	915.8	908.0	894.5	890.1
52.5°	850.4	835.9	829.3	816.9	812.6
55°	724.6	712.9	708.2	696.2	693.3
57.5°	605.0	597.2	595.8	584.1	583.0
60°	532.3	527.9	527.8	517.4	517.4
62.5°	470.2	467.0	469.3	462.5	461.3
65°	389.1	386.2	390.6	387.6	387.6
67.5°	325.0	325.0	327.7	326.5	326.5
70°	289.2	289.2	290.7	290.7	290.7
72.5°	257.0	255.9	259.7	259.7	258.5
75°	210.2	210.2	210.2	211.7	211.7
77.5°	163.7	164.0	165.2	164.9	163.7
80°	132.7	134.2	134.2	132.7	132.7
82.5°	101.7	103.1	103.2	102.8	101.7
85°	53.7	56.6	59.6	59.6	59.6
87.5°	16.1	22.0	27.8	28.1	26.6
90°	3.0	9.0	19.8	21.3	19.8
92.5°	43.3	157.7	311.2	135.1	97.8
95°	102.1	358.4	1094.1	566.2	336.8
97.5°	164.0	411.0	1705.4	1411.3	1036.5
100°	210.3	432.3	1895.6	1976.9	1598.4
102.5°	252.9	461.8	1962.6	2405.7	2122.6
105°	330.7	510.9	1973.3	2910.8	2791.6
107.5°	402.6	567.1	1887.1	3225.8	3265.5
110°	458.7	607.7	1810.3	3310.4	3478.8



TEST NUMBER: P564459

CATALOG NUMBER: SQ4-PR1-150U-075D-840-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	508.6	648.1	1739.5	3293.5	3576.3
115°	582.1	711.7	1636.5	3168.1	3576.3
117.5°	654.0	775.6	1568.6	2976.4	3439.2
120°	697.9	817.1	1528.4	2838.9	3311.2
122.5°	739.3	856.1	1504.0	2691.5	3167.3
125°	796.9	913.2	1475.0	2489.1	2924.1
127.5°	850.0	964.1	1458.0	2323.9	2706.5
130°	879.2	996.9	1450.6	2221.9	2567.6
132.5°	909.7	1026.2	1443.3	2129.9	2448.1
135°	955.4	1068.6	1435.4	2009.8	2275.0
137.5°	1001.4	1108.4	1428.7	1912.4	2128.4
140°	1033.1	1132.9	1426.3	1849.7	2041.9
142.5°	1063.6	1157.5	1421.4	1793.1	1961.4
145°	1110.8	1194.3	1415.6	1720.3	1851.4
147.5°	1153.8	1227.7	1408.9	1654.4	1755.1
150°	1185.5	1251.1	1406.5	1618.6	1699.0
152.5°	1214.8	1272.0	1405.2	1585.3	1651.5
155°	1254.1	1303.2	1403.4	1543.2	1593.9
157.5°	1294.9	1329.2	1403.7	1513.9	1547.2
160°	1318.1	1346.4	1404.9	1495.4	1519.2
162.5°	1336.4	1359.9	1406.1	1480.6	1498.5
165°	1365.3	1378.7	1409.5	1464.5	1472.0
167.5°	1385.1	1394.4	1409.8	1450.7	1454.3
170°	1397.3	1401.8	1411.0	1444.5	1444.5
172.5°	1407.1	1408.0	1411.0	1437.2	1436.0
175°	1417.1	1415.6	1411.0	1429.2	1426.3
177.5°	1420.5	1416.9	1410.7	1422.8	1419.3
180°	1415.6	1415.6	1415.6	1415.6	1415.6

(END OF REPORT)