

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: P565131

Luminaire Tested: **SQ4-PW1-150U-075D-840-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P565131  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, G2-2106-289-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PW1-150U-075D-840-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

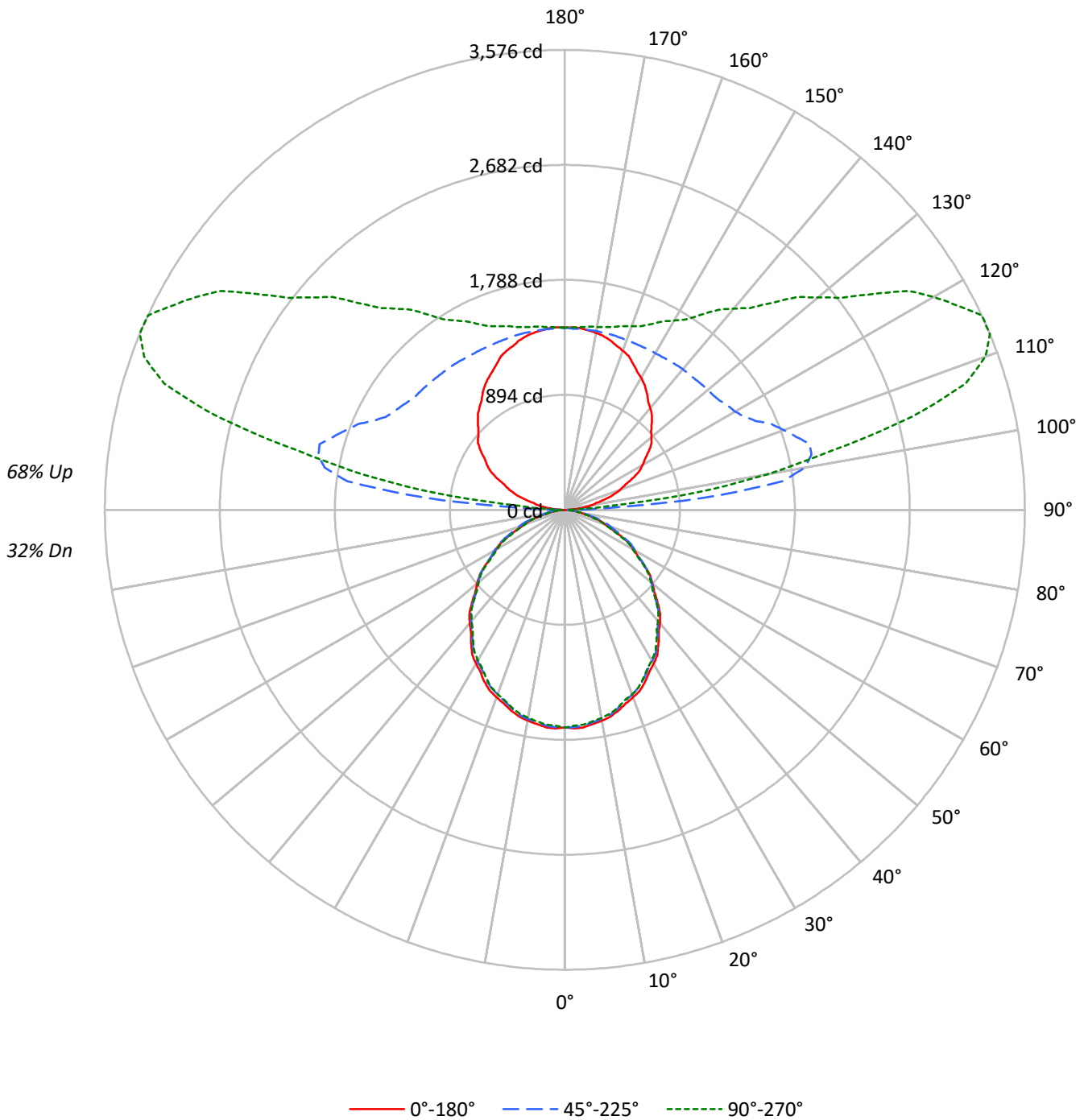
Lumens per Lamp: N/A  
Luminaire Lumens: 13435.3 lumens  
Efficiency: N/A  
Efficacy: 137.4 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Indirect

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



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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	73	73	73	56	56	56	40	40	40	32
1	94	90	86	83	84	81	78	75	64	62	60	49	48	46	35	34	34	27
2	85	78	72	67	77	71	66	61	56	53	50	43	41	39	31	30	28	23
3	78	69	62	56	70	62	56	51	50	45	42	38	35	33	27	26	24	19
4	71	61	53	47	64	55	48	43	44	39	36	34	31	28	25	22	21	17
5	65	54	46	40	59	49	42	37	39	34	31	30	27	24	22	20	18	14
6	60	48	41	35	54	44	37	32	35	30	27	27	24	21	20	18	16	13
7	55	44	36	30	50	40	33	28	32	27	23	25	21	19	18	16	14	11
8	51	39	32	27	46	36	29	25	29	24	21	23	19	17	17	14	13	10
9	48	36	29	24	43	33	26	22	27	22	18	21	17	15	15	13	11	9
10	44	33	26	21	40	30	24	20	24	20	16	19	16	13	14	12	10	8

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	10408	10408	10408
5°	10476	10393	10347
10°	10392	10309	10252
15°	10282	10168	10130
20°	10159	10003	9983
25°	10017	9835	9805
30°	9805	9657	9594
35°	9527	9393	9337
40°	9230	9086	9051
45°	8871	8754	8715
50°	8503	8432	8375
55°	8106	8106	7978
60°	7611	7759	7483
65°	6966	7312	6792
70°	6140	6730	5980
75°	5245	6024	5102
80°	4066	5069	4119
85°	2632	3896	3472



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	159.3	1.2
10°-20°	449.9	3.3
20°-30°	667.3	5.0
30°-40°	780.8	5.8
40°-50°	777.4	5.8
50°-60°	671.3	5.0
60°-70°	483.2	3.6
70°-80°	253.4	1.9
80°-90°	65.8	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°	1276.6	9.5
0°-40°	2057.4	15.3
0°-60°	3506.1	26.1
0°-90°	4308.4	32.1
90°-120°	4306.8	32.1
90°-150°	7931.9	59.0
90°-180°	9127.0	67.9
0°-180°	13435.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1692	1692	1692	1692	1692	
5°	1697	1678	1683	1679	1676	161
15°	1615	1594	1597	1594	1591	455
25°	1476	1451	1449	1440	1445	679
35°	1269	1251	1251	1239	1244	793
45°	1020	1011	1006	1003	1002	787
55°	756	754	756	745	744	674
65°	479	493	502	483	467	474
75°	221	241	254	237	215	236
85°	37	49	55	52	49	49
90°	3	9	20	21	20	8
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	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1692.2	1692.2	1692.2	1692.2	1692.2
2.5°	1701.8	1687.8	1692.2	1688.5	1680.3
5°	1696.7	1677.7	1683.3	1678.7	1675.8
7.5°	1679.4	1661.9	1666.0	1661.2	1659.4
10°	1663.9	1646.4	1650.5	1644.4	1641.5
12.5°	1646.0	1627.3	1631.4	1625.4	1623.6
15°	1614.7	1594.3	1596.8	1593.8	1590.8
17.5°	1578.3	1557.6	1558.0	1553.3	1552.7
20°	1552.1	1530.2	1528.2	1522.3	1525.2
22.5°	1523.5	1500.4	1498.4	1490.1	1494.2
25°	1476.0	1451.3	1449.2	1440.4	1444.7
27.5°	1421.2	1396.7	1396.7	1384.3	1389.0
30°	1380.6	1357.3	1359.7	1345.0	1350.8
32.5°	1337.7	1316.7	1318.0	1303.2	1309.1
35°	1268.8	1251.3	1250.9	1239.1	1243.5
37.5°	1198.4	1183.0	1180.5	1173.7	1174.9
40°	1149.5	1136.4	1131.6	1127.2	1127.2
42.5°	1098.2	1086.3	1081.5	1078.2	1077.1
45°	1019.8	1011.1	1006.4	1003.4	1001.9
47.5°	942.3	934.1	930.1	927.9	926.5
50°	888.6	882.8	881.2	876.6	875.2
52.5°	834.9	831.4	829.9	824.2	822.7
55°	755.9	754.5	755.9	745.4	744.0
57.5°	673.6	675.9	680.8	666.7	663.2
60°	618.7	624.6	630.7	614.1	608.3
62.5°	562.7	572.0	580.6	561.6	553.4
65°	478.6	493.2	502.4	482.7	466.7
67.5°	397.5	415.6	426.7	405.4	387.3
70°	341.4	361.8	374.2	352.9	332.5
72.5°	292.5	315.3	325.3	305.2	284.8
75°	220.7	241.1	253.5	236.6	214.7
77.5°	156.5	175.8	186.1	171.3	153.3
80°	114.8	135.2	143.1	130.9	116.3
82.5°	81.4	98.3	103.8	96.4	86.5
85°	37.3	48.9	55.2	52.1	49.2
87.5°	10.2	19.5	26.6	26.9	27.8
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



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**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)