

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: P563115

Luminaire Tested: **SQ4-PC3-150U-075D-840-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563115  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, G2-2106-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PC3-150U-075D-840-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

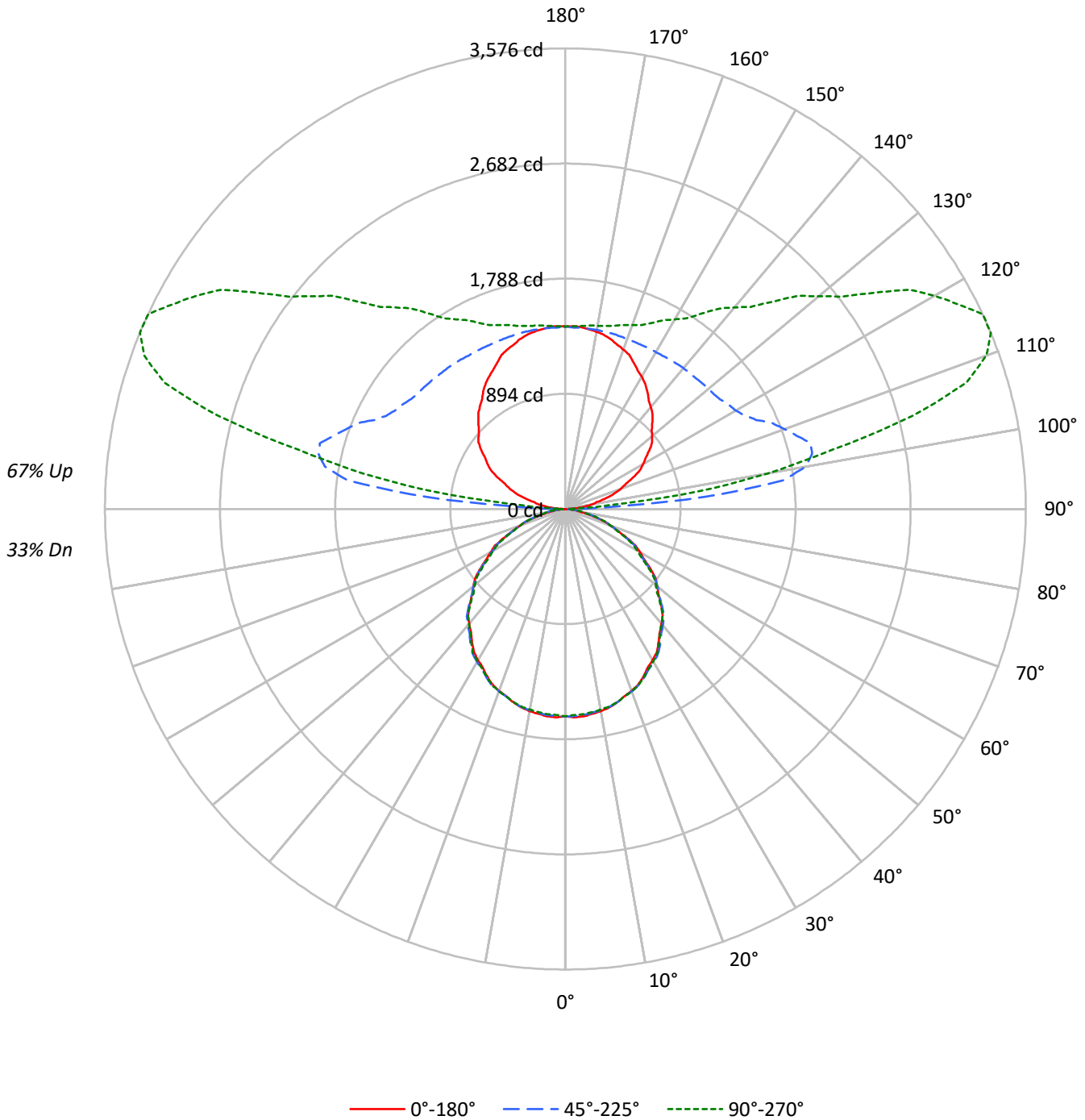
Lumens per Lamp: N/A  
Luminaire Lumens: 13524.4 lumens  
Efficiency: N/A  
Efficacy: 138.3 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Indirect

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: P563115  
CATALOG NUMBER: SQ4-PC3-150U-075D-840-1D-UNV-STD-W-6

### Luminous Intensity Polar Plot





TEST NUMBER: P563115

CATALOG NUMBER: SQ4-PC3-150U-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	74	74	74	56	56	56	40	40	40	33
1	94	90	86	83	84	81	78	75	64	62	60	49	48	47	35	35	34	27
2	85	78	72	67	77	71	66	61	56	53	50	43	41	39	31	30	29	23
3	78	69	62	56	70	62	56	51	50	45	42	38	35	33	28	26	24	19
4	71	61	53	47	64	55	48	43	44	39	36	34	31	28	25	23	21	17
5	65	54	46	40	58	49	42	37	39	34	31	30	27	24	22	20	18	14
6	60	48	40	35	54	44	37	32	35	30	26	27	24	21	20	18	16	13
7	55	43	36	30	50	39	33	28	32	27	23	25	21	19	18	16	14	11
8	51	39	32	27	46	36	29	25	29	24	20	23	19	16	17	14	13	10
9	48	36	28	24	43	33	26	22	26	22	18	21	17	15	15	13	11	9
10	44	33	26	21	40	30	24	19	24	20	16	19	16	13	14	12	10	8

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

	0°	45°	90°
0°	9904	9904	9904
5°	9979	9914	9878
10°	9954	9908	9880
15°	9903	9903	9893
20°	9837	9866	9866
25°	9744	9815	9784
30°	9626	9742	9700
35°	9482	9628	9561
40°	9325	9457	9361
45°	9156	9221	9079
50°	8916	8916	8774
55°	8634	8522	8393
60°	8216	8051	7923
65°	7594	7443	7377
70°	6650	6703	6676
75°	5349	5917	5953
80°	3801	5016	5069
85°	2315	4206	4206



TEST NUMBER: P563115

CATALOG NUMBER: SQ4-PC3-150U-075D-840-1D-UNV-STD-W-6

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	152.4	1.1
10°-20°	437.3	3.2
20°-30°	662.3	4.9
30°-40°	794.0	5.9
40°-50°	809.6	6.0
50°-60°	706.7	5.2
60°-70°	505.9	3.7
70°-80°	260.6	1.9
80°-90°	68.8	0.5
90°-100°	657.9	4.9
100°-110°	1778.8	13.2
110°-120°	1870.1	13.8
120°-130°	1519.0	11.2
130°-140°	1191.6	8.8
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°	1252.0	9.3
0°-40°	2045.9	15.1
0°-60°	3562.2	26.3
0°-90°	4397.5	32.5
90°-120°	4306.8	31.8
90°-150°	7931.9	58.6
90°-180°	9127.0	67.5
0°-180°	13524.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1610	1610	1610	1610	1610	
5°	1616	1600	1606	1601	1600	153
15°	1555	1542	1555	1555	1554	438
25°	1436	1426	1446	1442	1442	661
35°	1263	1260	1282	1273	1273	790
45°	1053	1050	1060	1047	1044	810
55°	805	795	795	783	783	718
65°	522	510	511	507	507	516
75°	225	235	249	250	250	243
85°	33	50	60	61	60	45
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	

TEST NUMBER: P563115

CATALOG NUMBER: SQ4-PC3-150U-075D-840-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1610.2	1610.2	1610.2	1610.2	1610.2
2.5°	1619.8	1605.8	1610.2	1606.5	1600.7
5°	1616.2	1600.2	1605.7	1601.2	1599.8
7.5°	1604.6	1588.5	1595.9	1592.9	1591.4
10°	1593.8	1577.8	1586.4	1583.4	1581.9
12.5°	1579.5	1564.6	1574.4	1571.5	1571.2
15°	1555.1	1541.9	1555.1	1555.0	1553.6
17.5°	1524.3	1512.4	1526.4	1527.3	1526.4
20°	1502.9	1489.8	1507.3	1505.9	1507.3
22.5°	1476.6	1465.8	1484.7	1480.8	1482.3
25°	1435.8	1425.6	1446.2	1441.7	1441.7
27.5°	1387.5	1380.2	1402.7	1397.9	1397.9
30°	1355.3	1348.0	1371.7	1365.7	1365.7
32.5°	1319.5	1314.5	1337.1	1329.9	1329.9
35°	1262.8	1259.9	1282.2	1273.3	1273.3
37.5°	1204.4	1201.8	1222.0	1211.2	1207.7
40°	1161.4	1160.0	1177.8	1165.9	1165.9
42.5°	1118.5	1117.1	1132.5	1118.2	1118.2
45°	1052.6	1049.7	1060.1	1046.6	1043.7
47.5°	980.7	977.8	984.3	969.7	968.2
50°	931.8	928.9	931.8	918.4	916.9
52.5°	881.7	876.5	877.0	863.5	863.3
55°	805.1	794.9	794.7	782.7	782.7
57.5°	724.0	710.6	711.8	701.6	700.1
60°	667.9	653.4	654.5	645.5	644.1
62.5°	613.1	596.2	599.7	589.5	589.2
65°	521.8	510.2	511.4	506.9	506.9
67.5°	434.2	423.4	431.2	427.6	427.3
70°	369.8	362.5	372.7	372.7	371.2
72.5°	310.1	309.8	322.6	322.7	323.5
75°	225.1	235.3	249.0	250.5	250.5
77.5°	150.3	168.4	183.4	184.0	183.7
80°	107.3	127.8	141.6	144.6	143.1
82.5°	72.8	94.3	105.9	108.8	107.3
85°	32.8	50.3	59.6	61.1	59.6
87.5°	10.2	21.8	27.8	28.1	25.4
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: P563115

CATALOG NUMBER: SQ4-PC3-150U-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)