

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: P563776

Luminaire Tested: **SQ4-PP3-150U-050D-940-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563776
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-150U-050D-940-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

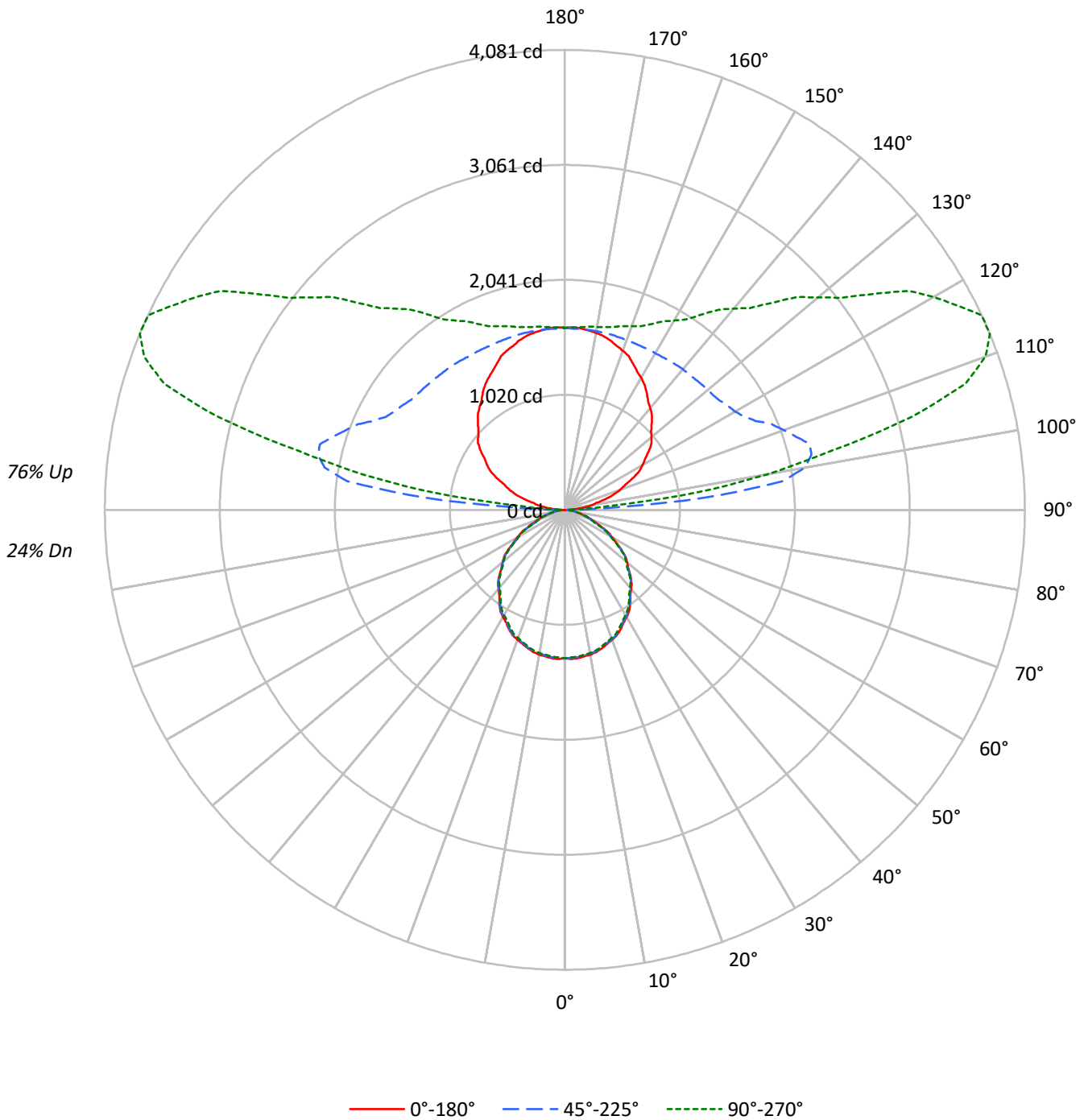
Lumens per Lamp: N/A
Luminaire Lumens: 13788.9 lumens
Efficiency: N/A
Efficacy: 123.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 111.9
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: P563776
CATALOG NUMBER: SQ4-PP3-150U-050D-940-1D-UNV-STD-W-8

Luminous Intensity Polar Plot





TEST NUMBER: P563776

CATALOG NUMBER: SQ4-PP3-150U-050D-940-1D-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	50	30	10	0	
RCR																						
0	101	101	101	101	90	90	90	90	69	69	69	50	50	50	33	33	33	24				24
1	92	88	84	81	82	78	75	73	61	59	57	44	43	42	29	28	28	21				21
2	84	77	71	66	74	69	64	60	53	50	47	39	37	35	26	24	23	18				18
3	77	68	61	55	68	60	55	50	47	43	40	34	32	30	23	21	20	15				15
4	70	60	52	46	62	53	47	42	42	37	34	31	28	25	20	19	17	13				13
5	64	53	45	40	57	48	41	36	37	32	29	27	24	22	18	16	15	11				11
6	59	47	40	34	52	43	36	31	33	29	25	25	21	19	17	15	13	10				10
7	54	43	35	30	48	38	32	27	30	25	22	22	19	17	15	13	12	9				9
8	50	39	31	26	45	35	28	24	27	23	19	20	17	15	14	12	10	8				8
9	47	35	28	23	42	32	25	21	25	20	17	19	15	13	13	11	9	7				7
10	43	32	25	20	39	29	23	19	23	18	15	17	14	12	12	10	8	6				6

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6075	6075	6075
5°	6119	6082	6060
10°	6109	6066	6038
15°	6069	6035	6002
20°	6028	5994	5949
25°	5957	5916	5857
30°	5846	5816	5742
35°	5694	5655	5583
40°	5511	5476	5414
45°	5361	5323	5271
50°	5169	5135	5085
55°	4901	4836	4799
60°	4462	4334	4312
65°	3931	3767	3754
70°	3394	3253	3253
75°	2921	2880	2839
80°	2574	2606	2545
85°	2017	2197	2197



TEST NUMBER: P563776

CATALOG NUMBER: SQ4-PP3-150U-050D-940-1D-UNV-STD-W-8

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.5	0.9
10°-20°	355.5	2.6
20°-30°	532.6	3.9
30°-40°	624.7	4.5
40°-50°	626.6	4.5
50°-60°	534.6	3.9
60°-70°	348.6	2.5
70°-80°	174.9	1.3
80°-90°	51.8	0.4
90°-100°	750.7	5.4
100°-110°	2029.9	14.7
110°-120°	2134.1	15.5
120°-130°	1733.5	12.6
130°-140°	1359.8	9.9
140°-150°	1043.6	7.6
150°-160°	750.6	5.4
160°-170°	458.5	3.3
170°-180°	154.6	1.1
0°-30°	1012.6	7.3
0°-40°	1637.3	11.9
0°-60°	2798.4	20.3
0°-90°	3373.7	24.5
90°-120°	4914.7	35.6
90°-150°	9051.5	65.6
90°-180°	10415.0	75.5
0°-180°	13788.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1317	1317	1317	1317	1317	
5°	1321	1309	1313	1309	1309	125
15°	1271	1258	1264	1259	1257	358
25°	1170	1157	1162	1152	1151	538
35°	1011	1001	1004	992	991	632
45°	822	816	816	808	808	633
55°	609	607	601	598	597	542
65°	360	353	345	343	344	359
75°	164	164	162	160	159	178
85°	38	42	42	42	42	45
90°	4	10	23	24	23	9
95°	116	409	1248	646	384	122
105°	377	583	2252	3322	3186	397
115°	664	812	1868	3615	4081	656
125°	909	1042	1683	2840	3337	811
135°	1090	1220	1638	2294	2596	843
145°	1268	1363	1615	1963	2113	793
155°	1431	1487	1602	1761	1819	660
165°	1558	1573	1608	1671	1680	439
175°	1617	1616	1610	1631	1628	154
180°	1615	1615	1615	1615	1615	



TEST NUMBER: P563776

CATALOG NUMBER: SQ4-PP3-150U-050D-940-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1316.8	1316.8	1316.8	1316.8	1316.8
2.5°	1325.1	1314.3	1316.8	1314.9	1309.4
5°	1321.4	1309.0	1313.4	1308.7	1308.7
7.5°	1312.4	1298.9	1303.2	1298.6	1298.4
10°	1304.1	1290.6	1294.9	1290.3	1289.1
12.5°	1292.1	1278.6	1283.8	1278.3	1278.0
15°	1270.7	1258.2	1263.7	1259.1	1256.8
17.5°	1246.4	1232.9	1239.5	1233.0	1232.1
20°	1228.0	1214.4	1221.0	1211.8	1211.8
22.5°	1205.8	1192.3	1199.8	1187.8	1187.8
25°	1170.3	1156.7	1162.2	1151.8	1150.6
27.5°	1128.0	1114.7	1120.4	1108.6	1108.4
30°	1097.5	1085.1	1091.8	1079.1	1077.9
32.5°	1064.3	1052.8	1057.6	1044.9	1043.8
35°	1011.0	1000.8	1004.1	992.5	991.4
37.5°	954.9	944.5	948.2	938.3	937.8
40°	915.2	908.4	909.4	901.3	899.0
42.5°	878.3	870.6	871.6	863.5	863.0
45°	821.7	816.1	815.9	807.9	807.9
47.5°	761.7	757.4	756.2	749.5	749.2
50°	720.2	716.8	715.5	709.7	708.6
52.5°	676.8	675.2	671.2	666.4	666.1
55°	609.4	607.1	601.3	597.8	596.7
57.5°	536.2	531.7	525.1	520.1	521.0
60°	483.6	479.1	469.7	467.4	467.4
62.5°	432.8	427.4	418.0	414.8	416.6
65°	360.1	353.3	345.1	342.8	343.9
67.5°	294.1	288.0	279.1	279.0	278.1
70°	251.6	248.2	241.2	241.2	241.2
72.5°	213.7	212.2	207.0	207.0	206.1
75°	163.9	163.9	161.6	160.4	159.3
77.5°	122.8	123.2	122.1	120.9	118.9
80°	96.9	99.2	98.1	96.9	95.8
82.5°	72.9	75.2	75.0	72.9	72.7
85°	38.1	41.5	41.5	41.5	41.5
87.5°	10.9	15.8	19.3	19.7	20.2
90°	3.5	10.3	22.6	24.3	22.6
92.5°	49.4	180.0	355.1	154.1	111.6
95°	116.5	408.9	1248.5	646.1	384.3
97.5°	187.1	469.0	1946.1	1610.6	1182.8
100°	240.0	493.3	2163.2	2255.9	1824.1
102.5°	288.7	527.0	2239.7	2745.3	2422.3
105°	377.3	583.1	2251.8	3321.6	3185.6
107.5°	459.4	647.1	2153.4	3681.2	3726.4
110°	523.4	693.4	2065.8	3777.7	3969.9



TEST NUMBER: P563776

CATALOG NUMBER: SQ4-PP3-150U-050D-940-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	580.4	739.6	1985.1	3758.4	4081.1
115°	664.3	812.2	1867.6	3615.3	4081.1
117.5°	746.3	885.1	1790.0	3396.5	3924.6
120°	796.4	932.4	1744.1	3239.6	3778.6
122.5°	843.7	977.0	1716.3	3071.4	3614.4
125°	909.4	1042.1	1683.2	2840.4	3336.9
127.5°	969.9	1100.2	1663.8	2652.0	3088.6
130°	1003.3	1137.6	1655.4	2535.6	2930.0
132.5°	1038.1	1171.1	1647.1	2430.5	2793.7
135°	1090.3	1219.5	1638.0	2293.5	2596.1
137.5°	1142.8	1264.9	1630.4	2182.3	2428.9
140°	1179.0	1292.9	1627.6	2110.8	2330.1
142.5°	1213.7	1320.8	1622.0	2046.2	2238.3
145°	1267.6	1362.9	1615.4	1963.1	2112.7
147.5°	1316.7	1401.0	1607.8	1887.9	2002.8
150°	1352.8	1427.7	1605.0	1847.0	1938.8
152.5°	1386.2	1451.5	1603.6	1809.1	1884.6
155°	1431.1	1487.2	1601.5	1761.1	1818.9
157.5°	1477.7	1516.8	1601.9	1727.6	1765.7
160°	1504.1	1536.4	1603.2	1706.5	1733.7
162.5°	1525.0	1551.9	1604.6	1689.6	1710.0
165°	1558.0	1573.3	1608.5	1671.3	1679.8
167.5°	1580.6	1591.2	1608.8	1655.5	1659.6
170°	1594.5	1599.6	1610.2	1648.5	1648.5
172.5°	1605.7	1606.7	1610.2	1640.1	1638.7
175°	1617.2	1615.5	1610.2	1631.0	1627.6
177.5°	1621.0	1616.9	1609.9	1623.7	1619.6
180°	1615.4	1615.4	1615.4	1615.4	1615.4

(END OF REPORT)