

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: P561755

Luminaire Tested: **SQ4-PC3-150U-100D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561755
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, 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-100D-92765-1D-UNV-STD-W-4 (4500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

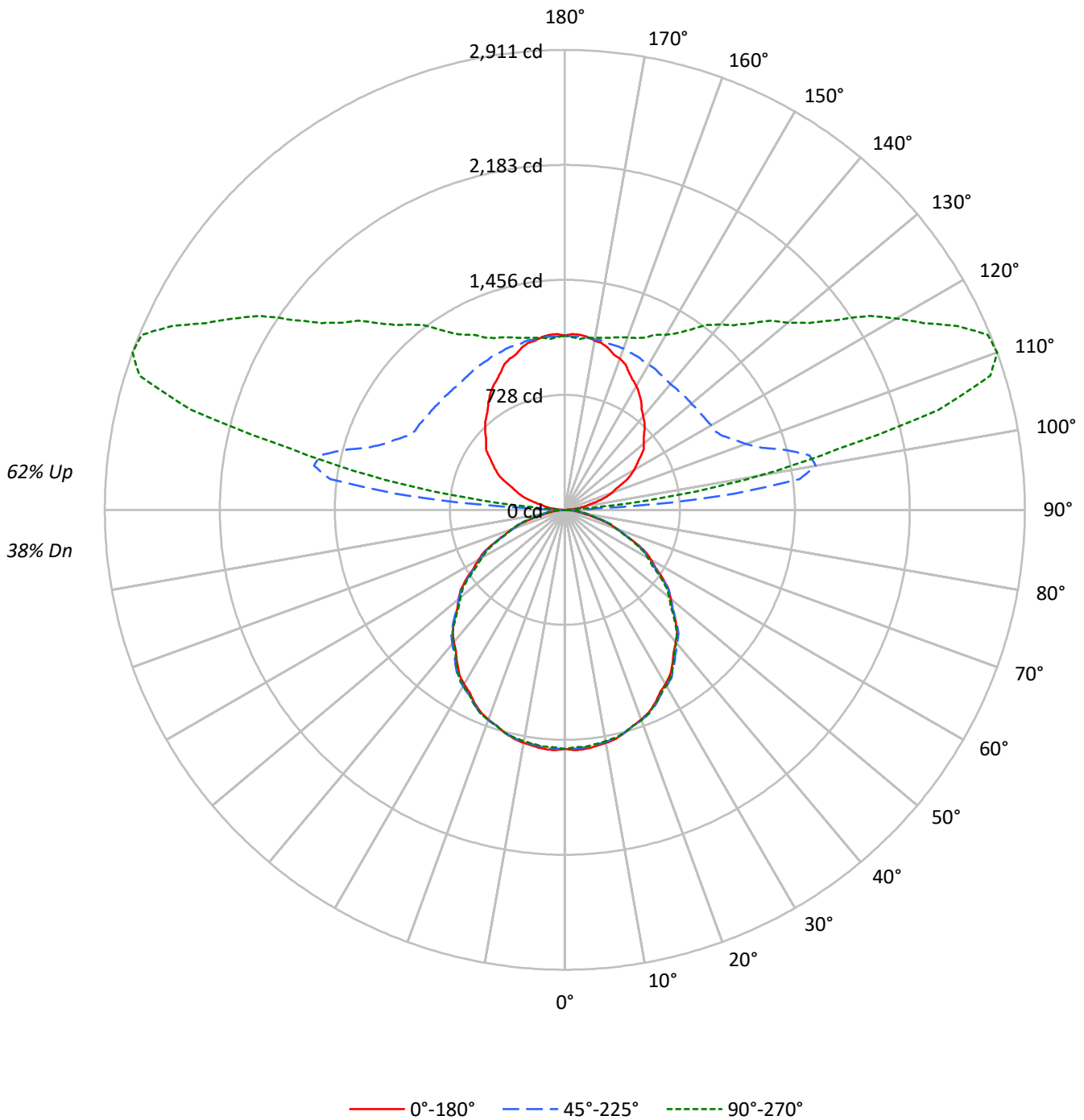
Lumens per Lamp: N/A
Luminaire Lumens: 10978.9 lumens
Efficiency: N/A
Efficacy: 117.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 93.4
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: P561755
CATALOG NUMBER: SQ4-PC3-150U-100D-92765-1D-UNV-STD-W-4 (4500K)

Luminous Intensity Polar Plot





TEST NUMBER: P561755

CATALOG NUMBER: SQ4-PC3-150U-100D-92765-1D-UNV-STD-W-4 (4500K)

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	104	104	104	104	95	95	95	95	76	76	76	60	60	60	45	45	45	38
1	95	91	87	84	86	83	79	76	67	65	63	53	51	50	40	39	38	32
2	87	79	73	68	78	72	67	63	59	55	52	46	44	42	35	33	32	27
3	79	70	62	57	71	63	57	52	52	47	44	41	38	35	31	29	27	23
4	72	62	54	48	65	56	49	44	46	41	37	36	33	30	28	25	23	19
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	22	20	17
6	61	49	41	35	55	45	38	33	37	32	28	29	26	23	22	20	18	15
7	56	44	36	31	51	40	33	29	33	28	24	27	23	20	20	18	16	13
8	52	40	32	27	47	37	30	25	30	25	21	24	21	18	19	16	14	12
9	48	36	29	24	44	33	27	22	28	23	19	22	19	16	17	15	13	10
10	45	33	26	21	41	31	24	20	25	21	17	21	17	14	16	13	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13964	13964	13964
5°	14069	13978	13926
10°	14035	13969	13930
15°	13961	13961	13947
20°	13869	13911	13911
25°	13738	13838	13795
30°	13571	13736	13676
35°	13369	13574	13480
40°	13148	13334	13199
45°	12910	13001	12800
50°	12572	12572	12370
55°	12172	12014	11834
60°	11584	11352	11171
65°	10708	10494	10402
70°	9374	9450	9412
75°	7543	8341	8391
80°	5361	7072	7146
85°	3260	5939	5939



TEST NUMBER: P561755

CATALOG NUMBER: SQ4-PC3-150U-100D-92765-1D-UNV-STD-W-4 (4500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.2	1.3
10°-20°	411.0	3.7
20°-30°	622.5	5.7
30°-40°	746.3	6.8
40°-50°	760.9	6.9
50°-60°	664.2	6.1
60°-70°	475.5	4.3
70°-80°	244.9	2.2
80°-90°	61.9	0.6
90°-100°	502.4	4.6
100°-110°	1429.4	13.0
110°-120°	1369.6	12.5
120°-130°	1083.9	9.9
130°-140°	870.0	7.9
140°-150°	681.1	6.2
150°-160°	498.4	4.5
160°-170°	308.7	2.8
170°-180°	104.8	1.0
0°-30°	1176.7	10.7
0°-40°	1923.0	17.5
0°-60°	3348.2	30.5
0°-90°	4130.6	37.6
90°-120°	3301.4	30.1
90°-150°	5936.5	54.1
90°-180°	6848.0	62.4
0°-180°	10978.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1514	1514	1514	1514	1514	
5°	1519	1504	1509	1505	1504	144
15°	1462	1449	1462	1462	1460	412
25°	1350	1340	1359	1355	1355	621
35°	1187	1184	1205	1197	1197	742
45°	989	987	996	984	981	762
55°	757	747	747	736	736	675
65°	490	480	481	476	476	485
75°	212	221	234	235	235	229
85°	31	47	56	57	56	42
90°	0	0	0	0	0	4
95°	54	216	972	337	208	62
105°	222	337	1457	2573	2446	235
115°	413	499	1105	2340	2748	407
125°	583	646	1054	1750	2092	522
135°	713	772	1042	1478	1670	550
145°	840	884	1050	1279	1394	525
155°	960	982	1075	1156	1203	444
165°	1061	1065	1088	1111	1128	298
175°	1111	1105	1100	1094	1086	105
180°	1102	1102	1102	1102	1102	

TEST NUMBER: P561755

CATALOG NUMBER: SQ4-PC3-150U-100D-92765-1D-UNV-STD-W-4 (4500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1513.5	1513.5	1513.5	1513.5	1513.5
2.5°	1522.5	1509.3	1513.5	1510.0	1504.5
5°	1519.1	1504.0	1509.3	1505.0	1503.7
7.5°	1508.2	1493.1	1500.0	1497.2	1495.8
10°	1498.1	1483.0	1491.1	1488.2	1486.9
12.5°	1484.6	1470.6	1479.9	1477.0	1476.8
15°	1461.6	1449.3	1461.6	1461.6	1460.2
17.5°	1432.8	1421.5	1434.7	1435.6	1434.7
20°	1412.6	1400.3	1416.8	1415.4	1416.8
22.5°	1387.9	1377.8	1395.5	1391.9	1393.2
25°	1349.5	1339.9	1359.3	1355.1	1355.1
27.5°	1304.1	1297.3	1318.4	1313.9	1313.9
30°	1273.9	1267.0	1289.3	1283.7	1283.7
32.5°	1240.2	1235.6	1256.8	1250.0	1250.0
35°	1187.0	1184.2	1205.2	1196.8	1196.8
37.5°	1132.0	1129.6	1148.6	1138.4	1135.1
40°	1091.7	1090.3	1107.1	1095.9	1095.9
42.5°	1051.3	1049.9	1064.5	1051.0	1051.0
45°	989.4	986.6	996.4	983.7	981.0
47.5°	921.8	919.1	925.2	911.4	910.1
50°	875.9	873.1	875.9	863.2	861.8
52.5°	828.8	823.8	824.3	811.7	811.4
55°	756.7	747.2	746.9	735.7	735.7
57.5°	680.5	667.9	669.0	659.5	658.1
60°	627.8	614.1	615.2	606.8	605.4
62.5°	576.2	560.4	563.6	554.1	553.8
65°	490.5	479.5	480.7	476.5	476.5
67.5°	408.1	397.9	405.3	401.9	401.6
70°	347.5	340.7	350.3	350.3	348.9
72.5°	291.5	291.2	303.3	303.3	304.1
75°	211.6	221.2	234.0	235.4	235.4
77.5°	141.3	158.2	172.4	172.9	172.6
80°	100.9	120.1	133.1	135.9	134.5
82.5°	68.4	88.7	99.5	102.3	100.9
85°	30.8	47.3	56.1	57.4	56.1
87.5°	9.0	18.8	22.4	22.4	20.2
90°	0.0	0.0	0.0	0.0	0.0
92.5°	16.8	88.9	206.2	60.0	45.3
95°	54.5	216.4	972.5	336.6	207.5
97.5°	100.2	253.5	1497.8	1071.8	734.4
100°	132.0	275.5	1611.8	1632.6	1257.6
102.5°	167.3	299.2	1586.6	2089.8	1762.3
105°	222.2	336.9	1456.7	2573.1	2446.0
107.5°	277.9	380.8	1305.0	2709.3	2822.4
110°	316.5	412.8	1217.8	2657.2	2911.3

TEST NUMBER: P561755

CATALOG NUMBER: SQ4-PC3-150U-100D-92765-1D-UNV-STD-W-4 (4500K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	353.4	444.8	1159.1	2533.9	2896.2
115°	412.9	499.0	1104.6	2340.0	2747.8
117.5°	465.3	546.1	1072.3	2128.0	2560.0
120°	507.2	574.9	1068.9	2006.9	2420.8
122.5°	540.8	608.4	1060.6	1900.6	2285.0
125°	582.7	646.2	1054.3	1749.5	2091.8
127.5°	628.4	687.8	1050.9	1659.3	1941.3
130°	651.8	711.3	1045.9	1596.4	1842.4
132.5°	677.0	734.8	1045.9	1547.4	1773.6
135°	712.6	772.1	1041.7	1477.8	1670.5
137.5°	746.2	804.0	1041.3	1419.0	1585.4
140°	771.3	830.7	1039.6	1370.2	1530.1
142.5°	799.8	849.4	1044.6	1331.3	1474.7
145°	840.5	883.5	1050.1	1279.1	1393.8
147.5°	875.3	917.1	1059.3	1226.3	1325.5
150°	905.5	934.2	1062.7	1208.9	1278.5
152.5°	928.9	959.3	1066.0	1185.3	1250.0
155°	960.0	982.5	1075.2	1156.0	1203.1
157.5°	998.5	1012.0	1077.3	1142.6	1176.3
160°	1018.6	1028.9	1085.7	1132.5	1161.2
162.5°	1030.4	1042.3	1087.4	1123.9	1146.1
165°	1060.6	1064.7	1087.8	1111.2	1127.6
167.5°	1081.1	1077.4	1097.4	1108.1	1114.6
170°	1087.8	1085.8	1094.1	1096.4	1104.6
172.5°	1102.9	1095.9	1099.1	1093.0	1099.5
175°	1110.9	1104.7	1100.4	1093.9	1085.7
177.5°	1114.2	1104.4	1099.1	1092.5	1094.1
180°	1102.5	1102.5	1102.5	1102.5	1102.5

(END OF REPORT)