

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: P561650

Luminaire Tested: **SQ4-PC3-100U-100D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561650
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-PC3-100U-100D-92765-1D-UNV-STD-W-4 (4000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

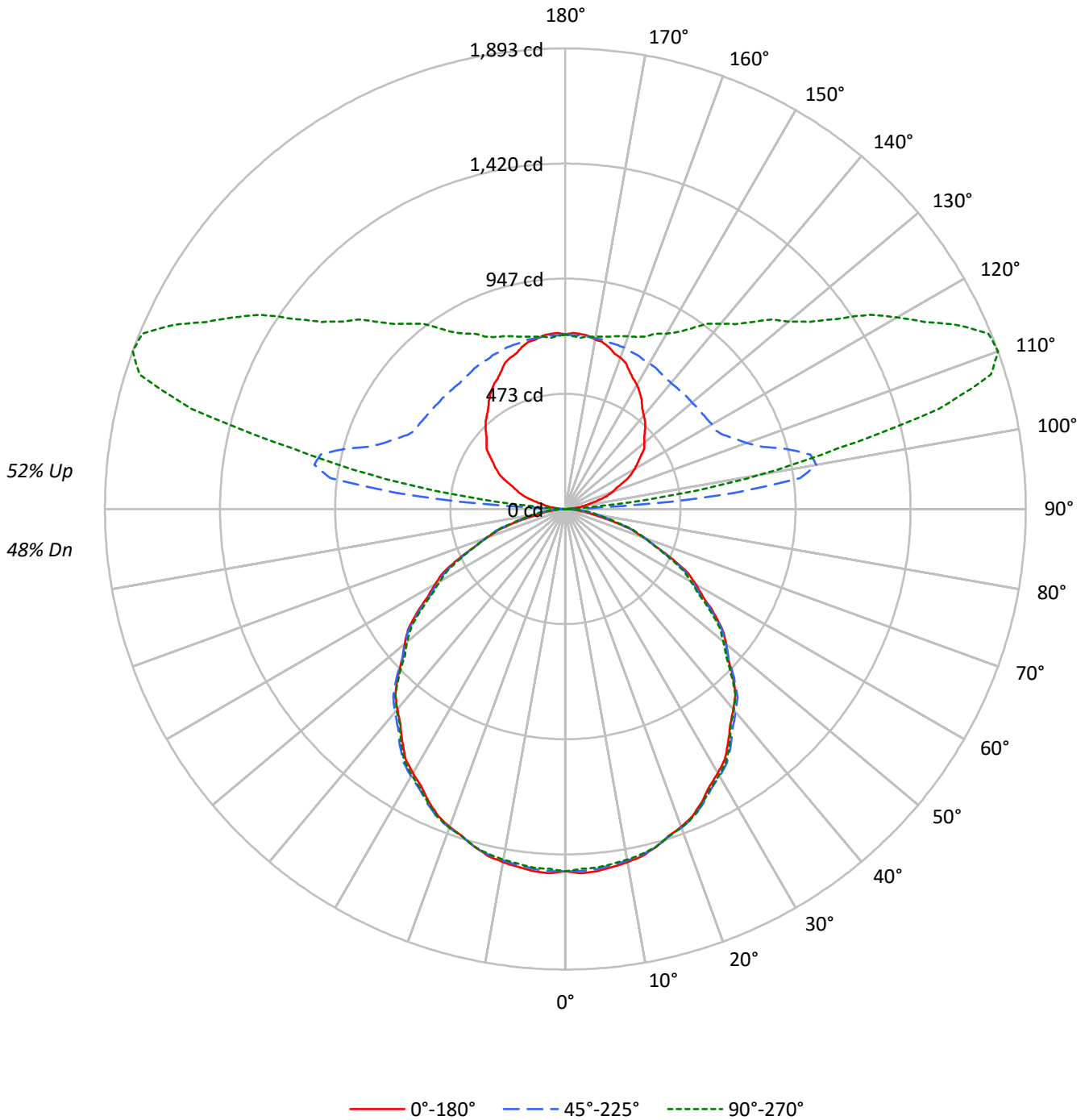
Lumens per Lamp: N/A
Luminaire Lumens: 8517.5 lumens
Efficiency: N/A
Efficacy: 113.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 74.8
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: P561650
CATALOG NUMBER: SQ4-PC3-100U-100D-92765-1D-UNV-STD-W-4 (4000K)

Luminous Intensity Polar Plot





TEST NUMBER: P561650

CATALOG NUMBER: SQ4-PC3-100U-100D-92765-1D-UNV-STD-W-4 (4000K)

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	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54	48
1	97	93	89	86	89	86	82	79	72	70	68	59	58	56	48	47	46	40
2	89	81	75	70	81	75	70	65	63	59	56	52	49	47	42	40	39	34
3	81	71	64	58	74	66	60	54	56	51	47	46	43	40	37	35	33	29
4	74	63	55	49	68	58	51	46	49	44	40	41	37	34	33	30	28	24
5	68	56	48	42	62	52	45	40	44	39	34	37	33	29	30	27	25	21
6	62	50	42	36	57	47	39	34	40	34	30	33	29	26	27	24	22	19
7	58	45	37	32	53	42	35	30	36	30	26	30	26	23	25	22	19	16
8	53	41	33	28	49	38	31	27	33	27	23	28	23	20	23	19	17	15
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	15	13
10	46	34	27	22	43	32	26	21	28	22	19	23	19	16	19	16	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13742	13742	13742
5°	13846	13756	13705
10°	13812	13747	13709
15°	13739	13739	13727
20°	13649	13690	13690
25°	13520	13619	13576
30°	13355	13517	13459
35°	13156	13359	13266
40°	12939	13122	12989
45°	12705	12795	12596
50°	12373	12373	12175
55°	11979	11824	11646
60°	11402	11171	10994
65°	10538	10326	10237
70°	9226	9301	9263
75°	7422	8210	8259
80°	5276	6960	7035
85°	3208	5843	5843



TEST NUMBER: P561650

CATALOG NUMBER: SQ4-PC3-100U-100D-92765-1D-UNV-STD-W-4 (4000K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.0	1.7
10°-20°	404.5	4.7
20°-30°	612.6	7.2
30°-40°	734.4	8.6
40°-50°	748.9	8.8
50°-60°	653.7	7.7
60°-70°	468.0	5.5
70°-80°	241.0	2.8
80°-90°	60.9	0.7
90°-100°	326.6	3.8
100°-110°	929.4	10.9
110°-120°	890.4	10.5
120°-130°	704.7	8.3
130°-140°	565.7	6.6
140°-150°	442.8	5.2
150°-160°	324.0	3.8
160°-170°	200.7	2.4
170°-180°	68.1	0.8
0°-30°	1158.1	13.6
0°-40°	1892.5	22.2
0°-60°	3295.0	38.7
0°-90°	4065.0	47.7
90°-120°	2146.4	25.2
90°-150°	3859.7	45.3
90°-180°	4453.0	52.3
0°-180°	8517.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1490	1490	1490	1490	1490	
5°	1495	1480	1485	1481	1480	142
15°	1438	1426	1438	1438	1437	406
25°	1328	1319	1338	1334	1334	611
35°	1168	1165	1186	1178	1178	731
45°	974	971	981	968	965	749
55°	745	735	735	724	724	664
65°	483	472	473	469	469	477
75°	208	218	230	232	232	225
85°	30	46	55	56	55	41
90°	0	0	0	0	0	3
95°	35	141	632	219	135	40
105°	144	219	947	1673	1590	153
115°	268	324	718	1521	1786	264
125°	379	420	686	1138	1360	339
135°	463	502	677	961	1086	358
145°	546	574	683	832	906	341
155°	624	639	699	752	782	289
165°	690	692	707	722	733	194
175°	722	718	715	711	706	68
180°	717	717	717	717	717	

TEST NUMBER: P561650

CATALOG NUMBER: SQ4-PC3-100U-100D-92765-1D-UNV-STD-W-4 (4000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1489.5	1489.5	1489.5	1489.5	1489.5
2.5°	1498.3	1485.3	1489.5	1486.0	1480.6
5°	1495.0	1480.1	1485.3	1481.2	1479.8
7.5°	1484.2	1469.4	1476.2	1473.4	1472.1
10°	1474.3	1459.5	1467.4	1464.6	1463.3
12.5°	1461.1	1447.3	1456.4	1453.6	1453.3
15°	1438.4	1426.3	1438.4	1438.4	1437.1
17.5°	1410.0	1399.0	1412.0	1412.8	1412.0
20°	1390.2	1378.0	1394.3	1393.0	1394.3
22.5°	1365.9	1355.9	1373.3	1369.8	1371.1
25°	1328.1	1318.7	1337.8	1333.6	1333.6
27.5°	1283.4	1276.7	1297.5	1293.1	1293.1
30°	1253.6	1246.9	1268.8	1263.3	1263.3
32.5°	1220.5	1215.9	1236.8	1230.2	1230.2
35°	1168.1	1165.4	1186.1	1177.8	1177.8
37.5°	1114.1	1111.6	1130.3	1120.3	1117.1
40°	1074.3	1073.0	1089.5	1078.5	1078.5
42.5°	1034.6	1033.3	1047.6	1034.3	1034.3
45°	973.7	971.0	980.6	968.1	965.4
47.5°	907.2	904.5	910.5	897.0	895.6
50°	862.0	859.3	862.0	849.5	848.2
52.5°	815.6	810.8	811.2	798.8	798.5
55°	744.7	735.3	735.1	724.0	724.0
57.5°	669.7	657.3	658.4	649.0	647.6
60°	617.9	604.4	605.4	597.1	595.8
62.5°	567.1	551.5	554.7	545.3	545.0
65°	482.7	471.9	473.0	468.9	468.9
67.5°	401.6	391.6	398.8	395.5	395.3
70°	342.0	335.3	344.8	344.8	343.4
72.5°	286.9	286.6	298.4	298.5	299.3
75°	208.2	217.7	230.3	231.7	231.7
77.5°	139.0	155.7	169.6	170.2	169.9
80°	99.3	118.2	131.0	133.7	132.4
82.5°	67.3	87.3	97.9	100.6	99.3
85°	30.3	46.5	55.2	56.5	55.2
87.5°	8.8	18.5	22.1	22.0	19.9
90°	0.0	0.0	0.0	0.0	0.0
92.5°	10.9	57.8	134.1	39.0	29.4
95°	35.4	140.7	632.3	218.9	134.9
97.5°	65.1	164.8	973.8	696.8	477.5
100°	85.9	179.1	1047.9	1061.5	817.6
102.5°	108.7	194.6	1031.6	1358.7	1145.8
105°	144.4	219.1	947.1	1672.9	1590.3
107.5°	180.7	247.6	848.4	1761.5	1835.1
110°	205.8	268.4	791.7	1727.6	1892.8

TEST NUMBER: P561650

CATALOG NUMBER: SQ4-PC3-100U-100D-92765-1D-UNV-STD-W-4 (4000K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	229.8	289.2	753.6	1647.4	1883.0
115°	268.5	324.4	718.2	1521.4	1786.5
117.5°	302.5	355.0	697.2	1383.6	1664.4
120°	329.8	373.8	695.0	1304.8	1574.0
122.5°	351.6	395.6	689.5	1235.7	1485.7
125°	378.8	420.1	685.5	1137.5	1360.0
127.5°	408.5	447.2	683.3	1078.8	1262.2
130°	423.8	462.5	680.0	1037.9	1197.8
132.5°	440.2	477.7	680.0	1006.0	1153.1
135°	463.3	502.0	677.3	960.8	1086.1
137.5°	485.1	522.7	677.0	922.6	1030.8
140°	501.5	540.1	675.9	890.9	994.8
142.5°	520.0	552.3	679.2	865.5	958.8
145°	546.5	574.4	682.7	831.6	906.2
147.5°	569.1	596.3	688.7	797.3	861.8
150°	588.7	607.4	690.9	786.0	831.3
152.5°	604.0	623.7	693.1	770.6	812.7
155°	624.1	638.8	699.1	751.6	782.2
157.5°	649.2	658.0	700.4	742.9	764.8
160°	662.3	668.9	705.9	736.3	755.0
162.5°	669.9	677.6	707.0	730.8	745.1
165°	689.5	692.2	707.3	722.5	733.1
167.5°	702.9	700.5	713.5	720.4	724.7
170°	707.3	705.9	711.3	712.8	718.2
172.5°	717.1	712.5	714.6	710.6	714.9
175°	722.2	718.3	715.4	711.2	705.9
177.5°	724.4	718.0	714.6	710.3	711.3
180°	716.8	716.8	716.8	716.8	716.8

(END OF REPORT)