

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: P561704

Luminaire Tested: **SQ4-PC3-125U-100D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561704
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-PC3-125U-100D-92765-1D-UNV-STD-W-4 (5000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

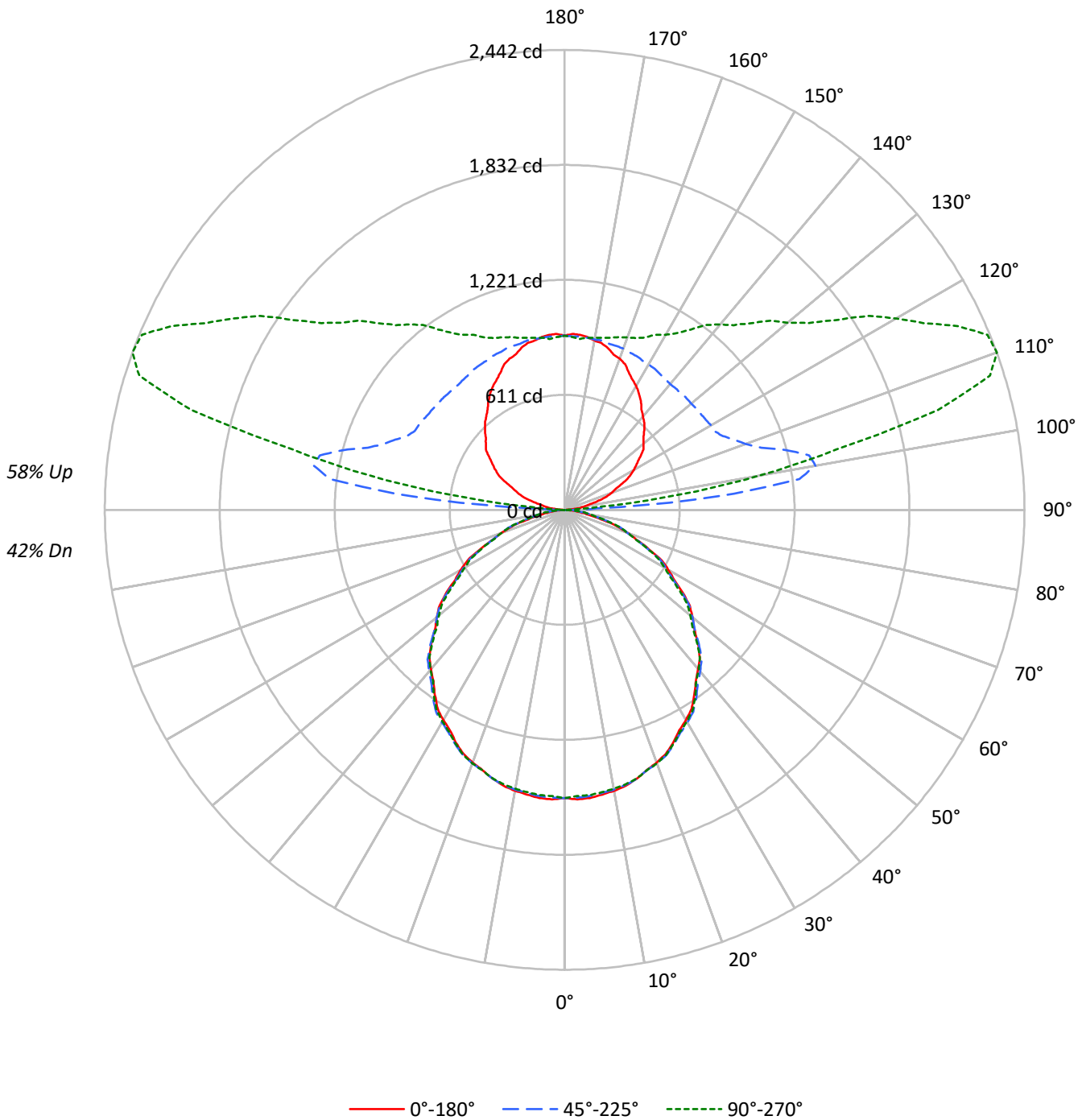
Lumens per Lamp: N/A
Luminaire Lumens: 9921.7 lumens
Efficiency: N/A
Efficacy: 118.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 83.7
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: P561704
CATALOG NUMBER: SQ4-PC3-125U-100D-92765-1D-UNV-STD-W-4 (5000K)

Luminous Intensity Polar Plot





TEST NUMBER: P561704

CATALOG NUMBER: SQ4-PC3-125U-100D-92765-1D-UNV-STD-W-4 (5000K)

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20				
RC	80					70					50					30				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	105	105	105	105	96	96	96	96	79	79	79	63	63	63	49	49	49	42		
1	96	92	88	85	88	84	81	78	69	67	65	56	54	53	43	42	41	36		
2	87	80	74	69	80	73	68	64	61	57	54	49	46	44	38	36	35	30		
3	80	70	63	57	73	65	58	53	53	49	45	43	40	37	34	32	30	25		
4	73	62	54	48	66	57	50	45	47	42	38	38	35	32	30	28	25	22		
5	67	55	47	41	61	51	44	39	42	37	33	34	31	27	27	24	22	19		
6	62	50	42	36	56	46	39	33	38	33	29	31	27	24	24	22	19	16		
7	57	45	37	31	52	41	34	29	34	29	25	28	24	21	22	19	17	15		
8	53	40	33	28	48	37	31	26	31	26	22	26	22	19	20	18	15	13		
9	49	37	29	24	45	34	27	23	29	24	20	24	20	17	19	16	14	12		
10	46	34	27	22	42	31	25	21	26	21	18	22	18	15	17	15	13	11		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14118	14118	14118
5°	14225	14133	14080
10°	14190	14124	14084
15°	14115	14115	14102
20°	14023	14065	14065
25°	13891	13991	13948
30°	13721	13887	13827
35°	13517	13724	13628
40°	13294	13481	13345
45°	13052	13144	12941
50°	12711	12711	12508
55°	12307	12148	11966
60°	11714	11477	11295
65°	10826	10610	10516
70°	9479	9555	9517
75°	7625	8434	8484
80°	5419	7152	7226
85°	3303	6002	6002



TEST NUMBER: P561704

CATALOG NUMBER: SQ4-PC3-125U-100D-92765-1D-UNV-STD-W-4 (5000K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.8	1.5
10°-20°	415.6	4.2
20°-30°	629.4	6.3
30°-40°	754.5	7.6
40°-50°	769.4	7.8
50°-60°	671.6	6.8
60°-70°	480.8	4.8
70°-80°	247.6	2.5
80°-90°	62.6	0.6
90°-100°	421.5	4.2
100°-110°	1199.2	12.1
110°-120°	1149.0	11.6
120°-130°	909.4	9.2
130°-140°	729.9	7.4
140°-150°	571.4	5.8
150°-160°	418.1	4.2
160°-170°	259.0	2.6
170°-180°	87.9	0.9
0°-30°	1189.8	12.0
0°-40°	1944.3	19.6
0°-60°	3385.3	34.1
0°-90°	4176.3	42.1
90°-120°	2769.7	27.9
90°-150°	4980.4	50.2
90°-180°	5745.0	57.9
0°-180°	9921.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1530	1530	1530	1530	1530	
5°	1536	1521	1526	1522	1520	146
15°	1478	1465	1478	1478	1476	417
25°	1364	1355	1374	1370	1370	628
35°	1200	1197	1218	1210	1210	751
45°	1000	998	1007	995	992	770
55°	765	755	755	744	744	682
65°	496	485	486	482	482	490
75°	214	224	237	238	238	231
85°	31	48	57	58	57	42
90°	0	0	0	0	0	3
95°	46	182	816	282	174	52
105°	186	283	1222	2159	2052	197
115°	346	419	927	1963	2305	341
125°	489	542	884	1468	1755	438
135°	598	648	874	1240	1402	461
145°	705	741	881	1073	1169	440
155°	805	824	902	970	1009	372
165°	890	893	913	932	946	250
175°	932	927	923	918	911	88
180°	925	925	925	925	925	

TEST NUMBER: P561704

CATALOG NUMBER: SQ4-PC3-125U-100D-92765-1D-UNV-STD-W-4 (5000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1530.2	1530.2	1530.2	1530.2	1530.2
2.5°	1539.3	1526.0	1530.2	1526.7	1521.2
5°	1535.9	1520.7	1526.0	1521.7	1520.3
7.5°	1524.8	1509.6	1516.6	1513.8	1512.4
10°	1514.6	1499.4	1507.6	1504.7	1503.3
12.5°	1501.0	1486.9	1496.2	1493.4	1493.1
15°	1477.8	1465.3	1477.8	1477.8	1476.4
17.5°	1448.6	1437.3	1450.6	1451.4	1450.6
20°	1428.2	1415.7	1432.5	1431.1	1432.5
22.5°	1403.3	1393.0	1410.9	1407.3	1408.7
25°	1364.5	1354.8	1374.4	1370.1	1370.1
27.5°	1318.6	1311.6	1333.0	1328.5	1328.5
30°	1287.9	1281.0	1303.5	1297.9	1297.9
32.5°	1253.9	1249.2	1270.7	1263.9	1263.9
35°	1200.1	1197.3	1218.5	1210.0	1210.0
37.5°	1144.6	1142.1	1161.3	1151.0	1147.7
40°	1103.8	1102.4	1119.3	1108.0	1108.0
42.5°	1062.9	1061.6	1076.3	1062.7	1062.7
45°	1000.3	997.5	1007.4	994.6	991.8
47.5°	932.0	929.3	935.4	921.5	920.1
50°	885.6	882.8	885.6	872.8	871.4
52.5°	837.9	833.0	833.4	820.7	820.4
55°	765.1	755.4	755.2	743.9	743.9
57.5°	688.0	675.3	676.4	666.8	665.4
60°	634.8	620.9	622.0	613.5	612.1
62.5°	582.6	566.6	569.9	560.2	560.0
65°	495.9	484.8	486.0	481.7	481.7
67.5°	412.6	402.3	409.8	406.4	406.1
70°	351.4	344.5	354.2	354.2	352.8
72.5°	294.7	294.4	306.6	306.6	307.5
75°	213.9	223.6	236.6	238.0	238.0
77.5°	142.8	160.0	174.3	174.8	174.6
80°	102.0	121.4	134.6	137.4	136.0
82.5°	69.1	89.6	100.6	103.4	102.0
85°	31.2	47.8	56.7	58.1	56.7
87.5°	9.1	19.0	22.7	22.6	20.4
90°	0.0	0.0	0.0	0.0	0.0
92.5°	14.1	74.6	173.0	50.4	38.0
95°	45.7	181.5	815.9	282.4	174.1
97.5°	84.1	212.7	1256.6	899.2	616.2
100°	110.8	231.1	1352.2	1369.7	1055.1
102.5°	140.3	251.0	1331.1	1753.2	1478.5
105°	186.4	282.7	1222.1	2158.7	2052.1
107.5°	233.2	319.5	1094.8	2273.0	2367.9
110°	265.5	346.3	1021.6	2229.2	2442.4

TEST NUMBER: P561704

CATALOG NUMBER: SQ4-PC3-125U-100D-92765-1D-UNV-STD-W-4 (5000K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	296.5	373.2	972.4	2125.8	2429.8
115°	346.4	418.6	926.7	1963.1	2305.3
117.5°	390.4	458.1	899.6	1785.3	2147.7
120°	425.5	482.3	896.8	1683.7	2031.0
122.5°	453.7	510.4	889.8	1594.5	1917.0
125°	488.8	542.1	884.5	1467.8	1754.9
127.5°	527.2	577.0	881.7	1392.1	1628.7
130°	546.9	596.7	877.5	1339.3	1545.7
132.5°	568.0	616.5	877.5	1298.2	1488.0
135°	597.9	647.7	873.9	1239.8	1401.5
137.5°	626.0	674.5	873.6	1190.5	1330.1
140°	647.1	697.0	872.2	1149.5	1283.6
142.5°	671.0	712.6	876.4	1116.9	1237.2
145°	705.1	741.2	881.0	1073.1	1169.4
147.5°	734.3	769.4	888.7	1028.8	1112.0
150°	759.6	783.7	891.5	1014.2	1072.6
152.5°	779.3	804.8	894.3	994.4	1048.7
155°	805.4	824.3	902.1	969.8	1009.3
157.5°	837.7	849.1	903.8	958.6	986.8
160°	854.6	863.2	910.9	950.1	974.2
162.5°	864.4	874.4	912.3	942.9	961.5
165°	889.8	893.2	912.6	932.3	946.0
167.5°	907.0	903.9	920.7	929.6	935.1
170°	912.6	910.9	917.9	919.8	926.7
172.5°	925.3	919.4	922.1	917.0	922.5
175°	932.0	926.8	923.2	917.7	910.9
177.5°	934.8	926.5	922.1	916.5	917.9
180°	924.9	924.9	924.9	924.9	924.9

(END OF REPORT)