

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: P561691

Luminaire Tested: **SQ4-PC3-125U-075D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561691
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-075D-92765-1D-UNV-STD-W-4 (5000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS
DOWNLIGHT 750 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

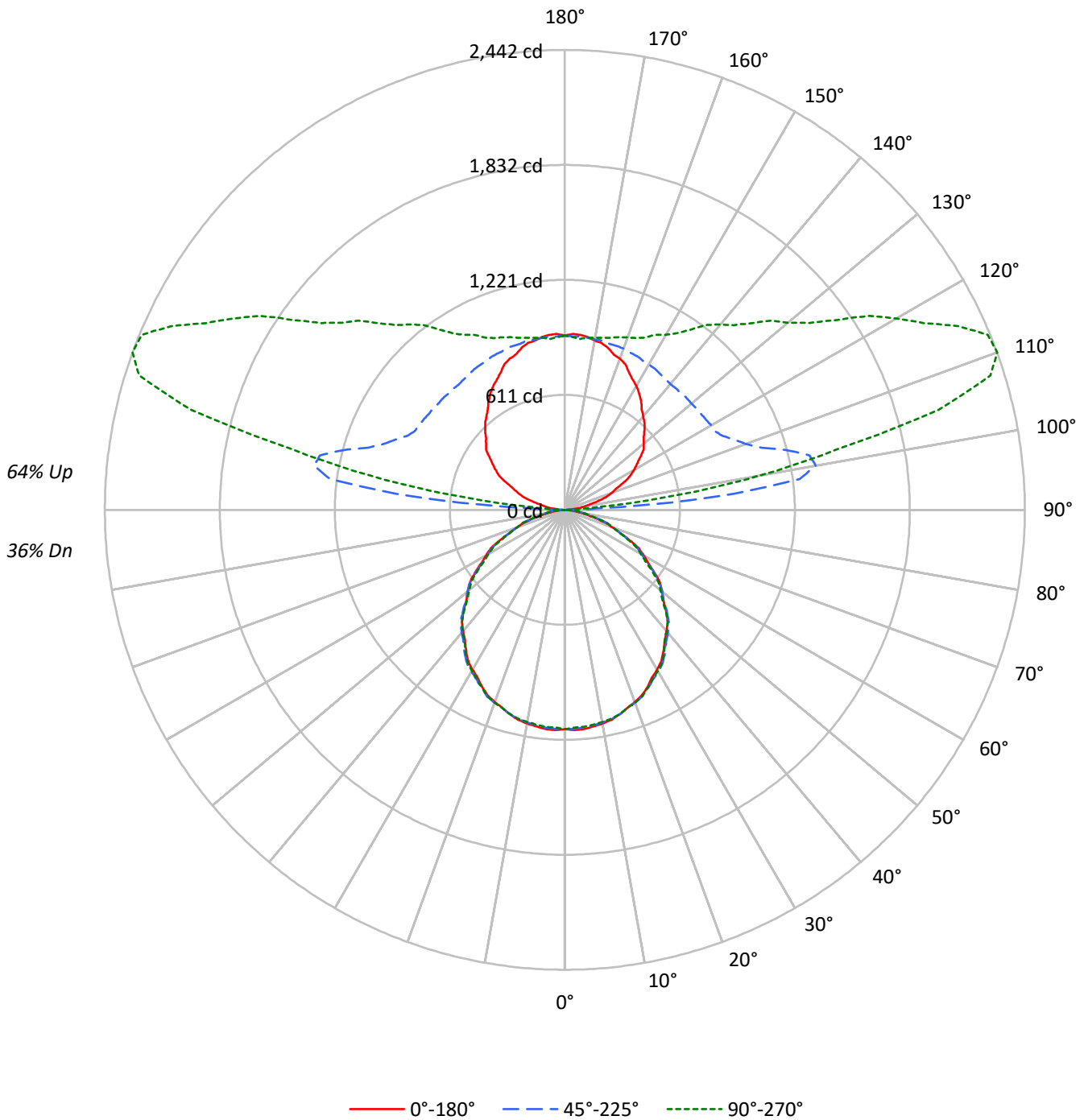
Lumens per Lamp: N/A
Luminaire Lumens: 8922.4 lumens
Efficiency: N/A
Efficacy: 121.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 73.2
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: P561691
CATALOG NUMBER: SQ4-PC3-125U-075D-92765-1D-UNV-STD-W-4 (5000K)

Luminous Intensity Polar Plot





TEST NUMBER: P561691

CATALOG NUMBER: SQ4-PC3-125U-075D-92765-1D-UNV-STD-W-4 (5000K)

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	94	94	94	94	75	75	75	58	58	58	43	43	43	36
1	95	90	87	83	85	82	79	76	66	64	62	51	50	49	38	37	36	30
2	86	79	73	68	78	72	67	62	58	54	51	45	43	41	33	32	31	25
3	79	69	62	56	71	63	57	52	51	47	43	40	37	34	30	28	26	21
4	72	61	54	48	65	56	49	44	45	40	36	35	32	29	26	24	22	18
5	66	54	46	41	59	50	43	38	40	35	31	32	28	25	24	21	19	16
6	60	49	41	35	55	44	37	32	36	31	27	29	25	22	21	19	17	14
7	56	44	36	31	50	40	33	28	33	28	24	26	22	19	20	17	15	12
8	52	40	32	27	47	36	30	25	30	25	21	24	20	17	18	15	13	11
9	48	36	29	24	43	33	27	22	27	22	19	22	18	15	17	14	12	10
10	45	33	26	21	41	30	24	20	25	20	17	20	16	14	15	13	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10740	10740	10740
5°	10821	10751	10711
10°	10794	10744	10714
15°	10738	10738	10727
20°	10668	10699	10699
25°	10566	10643	10611
30°	10437	10564	10518
35°	10282	10440	10368
40°	10112	10255	10152
45°	9928	9999	9845
50°	9668	9668	9515
55°	9362	9241	9103
60°	8911	8732	8591
65°	8235	8071	8001
70°	7211	7270	7240
75°	5803	6417	6456
80°	4123	5441	5499
85°	2509	4563	4563



TEST NUMBER: P561691

CATALOG NUMBER: SQ4-PC3-125U-075D-92765-1D-UNV-STD-W-4 (5000K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.2	1.2
10°-20°	316.1	3.5
20°-30°	478.8	5.4
30°-40°	574.0	6.4
40°-50°	585.2	6.6
50°-60°	510.9	5.7
60°-70°	365.8	4.1
70°-80°	188.4	2.1
80°-90°	47.6	0.5
90°-100°	421.5	4.7
100°-110°	1199.2	13.4
110°-120°	1149.0	12.9
120°-130°	909.4	10.2
130°-140°	729.9	8.2
140°-150°	571.4	6.4
150°-160°	418.1	4.7
160°-170°	259.0	2.9
170°-180°	87.9	1.0
0°-30°	905.1	10.1
0°-40°	1479.0	16.6
0°-60°	2575.2	28.9
0°-90°	3177.0	35.6
90°-120°	2769.7	31.0
90°-150°	4980.4	55.8
90°-180°	5745.0	64.4
0°-180°	8922.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1164	1164	1164	1164	1164	
5°	1168	1157	1161	1158	1156	111
15°	1124	1115	1124	1124	1123	317
25°	1038	1031	1046	1042	1042	478
35°	913	911	927	920	920	571
45°	761	759	766	757	754	586
55°	582	575	574	566	566	519
65°	377	369	370	366	366	373
75°	163	170	180	181	181	176
85°	24	36	43	44	43	32
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: P561691

CATALOG NUMBER: SQ4-PC3-125U-075D-92765-1D-UNV-STD-W-4 (5000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1164.1	1164.1	1164.1	1164.1	<i>1164.1</i>
2.5°	1171.0	1160.8	1164.1	1161.4	<i>1157.2</i>
5°	1168.4	1156.8	1160.8	1157.6	<i>1156.5</i>
7.5°	1160.0	1148.4	1153.7	1151.5	<i>1150.5</i>
10°	1152.2	1140.6	1146.8	1144.6	<i>1143.6</i>
12.5°	1141.9	1131.1	1138.2	1136.0	<i>1135.8</i>
15°	1124.2	1114.7	1124.2	1124.2	<i>1123.1</i>
17.5°	1102.0	1093.3	1103.5	1104.1	<i>1103.5</i>
20°	1086.5	1077.0	1089.7	1088.6	<i>1089.7</i>
22.5°	1067.5	1059.7	1073.3	1070.5	<i>1071.6</i>
25°	1037.9	1030.6	1045.5	1042.3	<i>1042.3</i>
27.5°	1003.0	997.8	1014.0	1010.6	<i>1010.6</i>
30°	979.7	974.5	991.6	987.3	<i>987.3</i>
32.5°	953.9	950.3	966.6	961.4	<i>961.4</i>
35°	912.9	910.8	926.9	920.5	<i>920.5</i>
37.5°	870.7	868.8	883.4	875.6	<i>873.0</i>
40°	839.6	838.6	851.5	842.9	<i>842.9</i>
42.5°	808.6	807.5	818.7	808.4	<i>808.4</i>
45°	760.9	758.8	766.3	756.6	<i>754.5</i>
47.5°	709.0	706.9	711.6	701.0	<i>699.9</i>
50°	673.6	671.5	673.6	663.9	<i>662.9</i>
52.5°	637.4	633.6	634.0	624.3	<i>624.1</i>
55°	582.0	574.7	574.5	565.9	<i>565.9</i>
57.5°	523.4	513.7	514.6	507.2	<i>506.1</i>
60°	482.9	472.3	473.2	466.7	<i>465.6</i>
62.5°	443.2	431.0	433.5	426.2	<i>426.0</i>
65°	377.2	368.8	369.7	366.5	<i>366.5</i>
67.5°	313.9	306.1	311.7	309.1	<i>308.9</i>
70°	267.3	262.0	269.5	269.4	<i>268.4</i>
72.5°	224.2	224.0	233.2	233.3	<i>233.9</i>
75°	162.8	170.1	180.0	181.1	<i>181.1</i>
77.5°	108.6	121.7	132.6	133.0	<i>132.8</i>
80°	77.6	92.4	102.4	104.5	<i>103.5</i>
82.5°	52.6	68.2	76.5	78.7	<i>77.6</i>
85°	23.7	36.4	43.1	44.2	<i>43.1</i>
87.5°	6.9	14.5	17.2	17.2	<i>15.5</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>
92.5°	14.1	74.6	173.0	50.4	<i>38.0</i>
95°	45.7	181.5	815.9	282.4	<i>174.1</i>
97.5°	84.1	212.7	1256.6	899.2	<i>616.2</i>
100°	110.8	231.1	1352.2	1369.7	<i>1055.1</i>
102.5°	140.3	251.0	1331.1	1753.2	<i>1478.5</i>
105°	186.4	282.7	1222.1	2158.7	<i>2052.1</i>
107.5°	233.2	319.5	1094.8	2273.0	<i>2367.9</i>
110°	<i>265.5</i>	<i>346.3</i>	<i>1021.6</i>	<i>2229.2</i>	<i>2442.4</i>



TEST NUMBER: P561691

CATALOG NUMBER: SQ4-PC3-125U-075D-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)