

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: P563000

Luminaire Tested: **SQ4-PC3-125U-050D-930-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563000  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, 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-050D-930-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

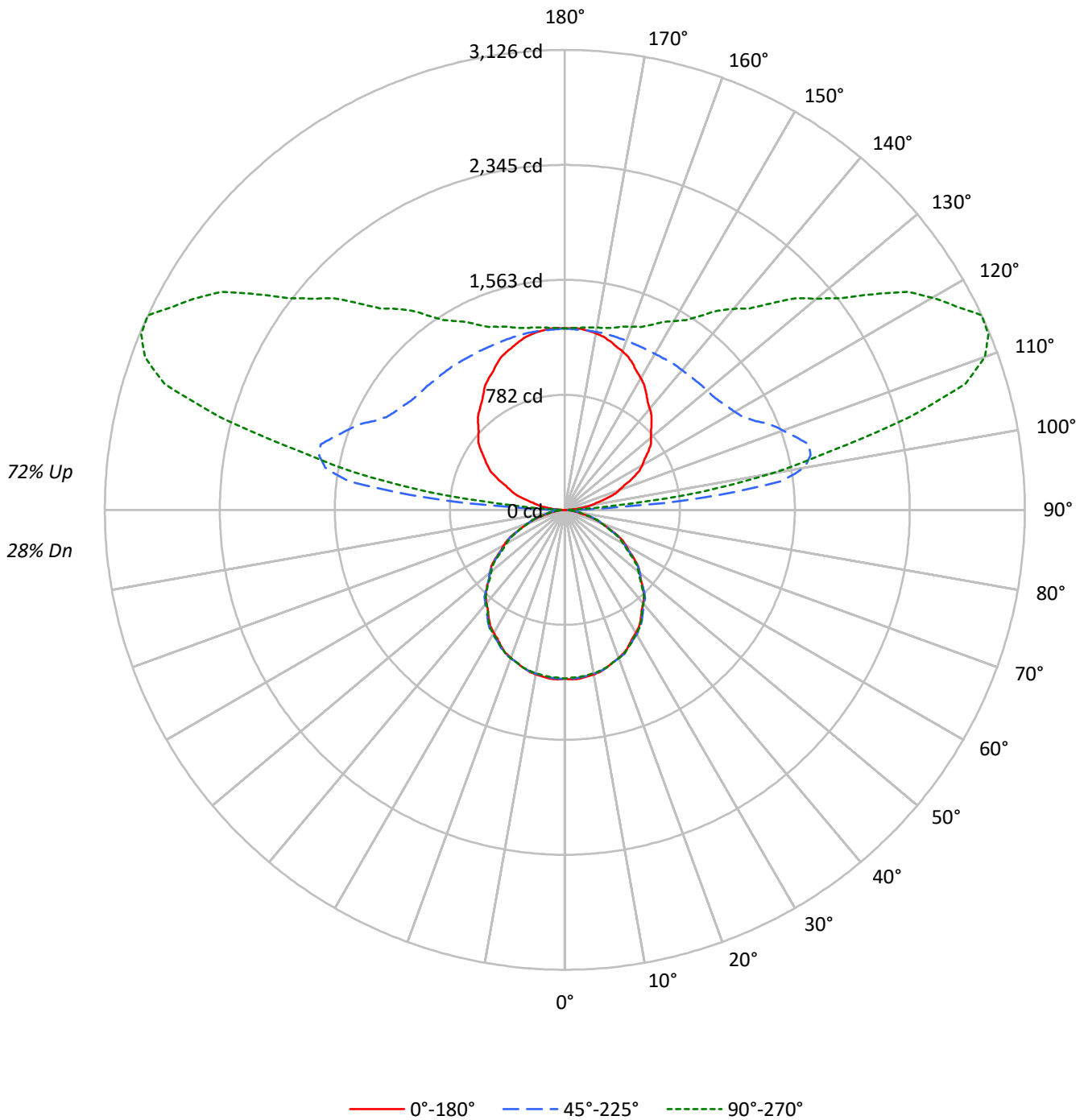
Lumens per Lamp: N/A  
Luminaire Lumens: 11091.3 lumens  
Efficiency: N/A  
Efficacy: 114.6 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 96.8  
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: P563000  
CATALOG NUMBER: SQ4-PC3-125U-050D-930-1D-UNV-STD-W-8

### Luminous Intensity Polar Plot





TEST NUMBER: P563000

CATALOG NUMBER: SQ4-PC3-125U-050D-930-1D-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	0
RCR																		
0	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36	28
1	93	89	85	82	83	80	76	74	62	60	58	47	45	44	32	31	31	24
2	85	77	72	67	75	70	65	60	55	51	48	41	39	37	28	27	26	20
3	77	68	61	55	69	61	55	50	48	44	40	36	33	31	25	23	22	17
4	70	60	52	47	63	54	48	43	43	38	34	32	29	26	22	20	19	14
5	65	53	46	40	57	48	41	36	38	33	29	29	25	23	20	18	16	13
6	59	48	40	34	53	43	36	31	34	29	26	26	22	20	18	16	14	11
7	55	43	35	30	49	39	32	27	31	26	22	23	20	17	16	14	13	10
8	51	39	31	26	45	35	29	24	28	23	20	21	18	15	15	13	11	9
9	47	35	28	23	42	32	26	21	26	21	17	20	16	14	14	12	10	8
10	44	32	25	21	39	29	23	19	23	19	16	18	15	12	13	11	9	7

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	5294	5294	5294
5°	5334	5299	5280
10°	5321	5296	5281
15°	5293	5293	5288
20°	5258	5274	5274
25°	5209	5246	5230
30°	5145	5207	5185
35°	5068	5146	5111
40°	4985	5055	5004
45°	4894	4929	4852
50°	4766	4766	4690
55°	4615	4555	4487
60°	4392	4304	4235
65°	4059	3979	3944
70°	3554	3582	3569
75°	2861	3164	3182
80°	2032	2680	2710
85°	1239	2249	2249



TEST NUMBER: P563000

CATALOG NUMBER: SQ4-PC3-125U-050D-930-1D-UNV-STD-W-8

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	108.6	1.0
10°-20°	311.7	2.8
20°-30°	472.0	4.3
30°-40°	565.9	5.1
40°-50°	577.0	5.2
50°-60°	503.7	4.5
60°-70°	360.6	3.3
70°-80°	185.7	1.7
80°-90°	49.8	0.4
90°-100°	576.6	5.2
100°-110°	1553.1	14.0
110°-120°	1629.9	14.7
120°-130°	1322.7	11.9
130°-140°	1037.3	9.4
140°-150°	796.4	7.2
150°-160°	572.6	5.2
160°-170°	349.8	3.2
170°-180°	118.0	1.1
0°-30°	892.3	8.0
0°-40°	1458.1	13.1
0°-60°	2538.8	22.9
0°-90°	3134.9	28.3
90°-120°	3759.6	33.9
90°-150°	6916.0	62.4
90°-180°	7956.0	71.7
0°-180°	11091.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1148	1148	1148	1148	1148	
5°	1152	1140	1144	1141	1140	109
15°	1108	1099	1108	1108	1107	312
25°	1023	1016	1031	1028	1028	471
35°	900	898	914	908	908	563
45°	750	748	756	746	744	577
55°	574	566	566	558	558	511
65°	372	364	364	361	361	368
75°	160	168	178	178	178	173
85°	23	36	42	44	42	32
90°	3	9	19	20	20	7
95°	88	314	945	483	334	92
105°	287	447	1718	2570	2412	302
115°	507	621	1430	2764	3126	499
125°	692	795	1284	2171	2554	618
135°	834	930	1248	1751	1983	643
145°	964	1039	1232	1497	1608	605
155°	1094	1134	1222	1343	1386	504
165°	1187	1201	1226	1275	1281	335
175°	1234	1232	1228	1245	1242	117
180°	1232	1232	1232	1232	1232	

TEST NUMBER: P563000

CATALOG NUMBER: SQ4-PC3-125U-050D-930-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1147.6	1147.6	1147.6	1147.6	1147.6
2.5°	1154.4	1144.4	1147.6	1145.0	1140.8
5°	1151.9	1140.4	1144.4	1141.2	1140.2
7.5°	1143.6	1132.1	1137.4	1135.3	1134.2
10°	1135.9	1124.5	1130.6	1128.5	1127.4
12.5°	1125.7	1115.1	1122.1	1120.0	1119.8
15°	1108.3	1098.9	1108.3	1108.3	1107.2
17.5°	1086.4	1077.9	1087.9	1088.5	1087.9
20°	1071.1	1061.7	1074.3	1073.2	1074.3
22.5°	1052.4	1044.7	1058.1	1055.4	1056.4
25°	1023.3	1016.0	1030.7	1027.5	1027.5
27.5°	988.9	983.7	999.7	996.3	996.3
30°	965.9	960.7	977.6	973.3	973.3
32.5°	940.4	936.9	952.9	947.8	947.8
35°	900.0	897.9	913.8	907.5	907.5
37.5°	858.4	856.5	870.9	863.2	860.7
40°	827.8	826.7	839.5	831.0	831.0
42.5°	797.2	796.1	807.1	796.9	796.9
45°	750.2	748.1	755.5	745.9	743.8
47.5°	699.0	696.9	701.5	691.1	690.1
50°	664.1	662.0	664.1	654.5	653.5
52.5°	628.4	624.7	625.0	615.5	615.2
55°	573.8	566.5	566.4	557.9	557.9
57.5°	516.0	506.4	507.3	500.0	499.0
60°	476.0	465.7	466.5	460.1	459.0
62.5°	436.9	424.9	427.4	420.1	419.9
65°	371.9	363.6	364.5	361.3	361.3
67.5°	309.4	301.7	307.3	304.7	304.5
70°	263.5	258.3	265.6	265.6	264.6
72.5°	221.0	220.8	229.9	230.0	230.6
75°	160.5	167.7	177.5	178.5	178.5
77.5°	107.1	120.0	130.7	131.1	130.9
80°	76.5	91.1	100.9	103.0	102.0
82.5°	51.9	67.2	75.4	77.5	76.5
85°	23.4	35.8	42.5	43.5	42.5
87.5°	7.4	16.1	20.8	21.0	19.4
90°	3.1	9.3	18.8	20.4	20.4
92.5°	38.3	135.3	267.5	128.8	89.5
95°	87.9	313.6	945.2	483.3	334.4
97.5°	140.4	359.0	1482.4	1238.4	933.9
100°	180.6	377.1	1653.3	1729.8	1435.0
102.5°	219.5	402.5	1709.8	2097.7	1855.8
105°	287.3	447.0	1717.6	2569.7	2411.6
107.5°	351.4	493.8	1644.5	2812.3	2853.1
110°	394.1	529.2	1577.9	2887.6	3036.5



TEST NUMBER: P563000

CATALOG NUMBER: SQ4-PC3-125U-050D-930-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	439.3	564.6	1513.8	2870.9	<i>3115.6</i>
115°	<i>507.1</i>	<i>620.7</i>	<i>1430.3</i>	<i>2763.7</i>	<i>3126.0</i>
117.5°	569.0	675.5	1365.6	2592.5	<i>2996.0</i>
120°	609.2	712.0	1333.0	2469.7	<i>2884.2</i>
122.5°	644.4	746.0	1309.1	2344.1	<i>2757.3</i>
125°	692.4	795.3	1284.3	2170.7	<i>2554.5</i>
127.5°	738.6	839.9	1268.6	2017.8	<i>2360.4</i>
130°	766.2	867.5	1262.3	1930.2	<i>2231.1</i>
132.5°	793.8	893.9	1256.0	1853.0	<i>2129.3</i>
135°	833.7	930.4	1248.2	1751.2	<i>1983.0</i>
137.5°	871.7	964.4	1244.1	1664.8	<i>1855.2</i>
140°	898.1	987.1	1240.3	1611.6	<i>1783.6</i>
142.5°	925.7	1008.6	1237.8	1562.0	<i>1707.0</i>
145°	964.0	1039.2	1232.5	1497.2	<i>1607.7</i>
147.5°	1005.5	1070.9	1227.2	1442.7	<i>1529.5</i>
150°	1033.1	1089.9	1224.6	1408.4	<i>1480.6</i>
152.5°	1058.2	1107.7	1223.4	1380.5	<i>1439.1</i>
155°	1094.3	1134.2	1221.5	1343.4	<i>1386.4</i>
157.5°	1126.0	1157.1	1221.8	1317.3	<i>1346.2</i>
160°	1146.1	1172.2	1223.1	1302.1	<i>1323.6</i>
162.5°	1163.7	1184.9	1224.3	1289.4	<i>1304.7</i>
165°	1187.0	1200.8	1226.2	1275.0	<i>1281.2</i>
167.5°	1205.8	1213.8	1227.8	1264.0	<i>1266.4</i>
170°	1218.4	1221.4	1227.8	1257.6	<i>1257.6</i>
172.5°	1225.9	1226.5	1229.0	1251.3	<i>1251.3</i>
175°	1234.1	1232.5	1227.8	1245.0	<i>1241.9</i>
177.5°	1237.5	1235.1	1228.7	1238.7	<i>1236.3</i>
180°	1232.5	1232.5	1232.5	1232.5	<i>1232.5</i>

(END OF REPORT)