

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: P563014

Luminaire Tested: **SQ4-PC3-125U-075D-835-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563014  
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-075D-835-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

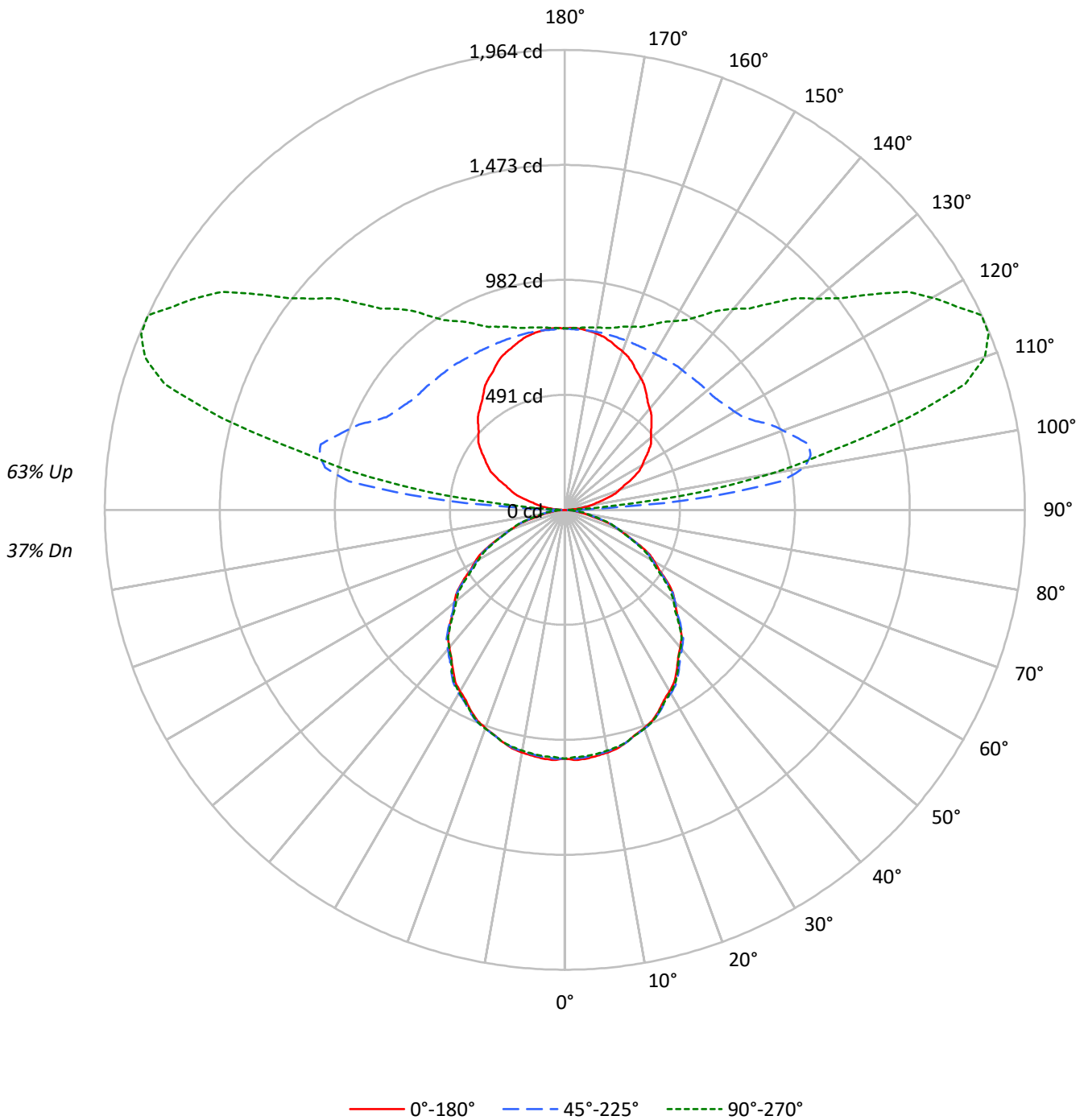
Lumens per Lamp: N/A  
Luminaire Lumens: 7901.7 lumens  
Efficiency: N/A  
Efficacy: 141.9 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 55.7  
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: P563014  
CATALOG NUMBER: SQ4-PC3-125U-075D-835-1D-UNV-STD-W-4

### Luminous Intensity Polar Plot





TEST NUMBER: P563014

CATALOG NUMBER: SQ4-PC3-125U-075D-835-1D-UNV-STD-W-4

**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	76	76	76	59	59	59	44	44	44	37
1	95	91	87	83	86	82	79	76	67	64	62	52	51	49	39	38	37	31
2	86	79	73	68	78	72	67	62	58	55	52	46	43	41	34	33	31	26
3	79	69	62	57	71	63	57	52	51	47	43	40	37	35	30	28	27	22
4	72	61	54	48	65	56	49	44	46	41	37	36	33	30	27	25	23	19
5	66	55	47	41	59	50	43	38	41	36	32	32	29	26	24	22	20	16
6	61	49	41	35	55	45	38	33	37	31	27	29	25	22	22	19	17	14
7	56	44	36	31	51	40	33	28	33	28	24	26	23	20	20	17	15	13
8	52	40	32	27	47	36	30	25	30	25	21	24	20	18	18	16	14	11
9	48	36	29	24	44	33	27	22	27	22	19	22	18	16	17	14	12	10
10	45	33	26	21	41	30	24	20	25	20	17	20	17	14	16	13	11	9

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

	0°	45°	90°
0°	9806	9806	9806
5°	9879	9815	9779
10°	9856	9809	9782
15°	9804	9804	9794
20°	9739	9768	9768
25°	9648	9717	9687
30°	9530	9645	9603
35°	9388	9532	9466
40°	9233	9363	9268
45°	9064	9130	8987
50°	8827	8827	8687
55°	8548	8437	8310
60°	8136	7971	7844
65°	7519	7368	7305
70°	6582	6636	6609
75°	5297	5857	5893
80°	3767	4968	5021
85°	2287	4171	4171



TEST NUMBER: P563014

CATALOG NUMBER: SQ4-PC3-125U-075D-835-1D-UNV-STD-W-4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.6	1.3
10°-20°	288.6	3.7
20°-30°	437.1	5.5
30°-40°	524.0	6.6
40°-50°	534.3	6.8
50°-60°	466.4	5.9
60°-70°	333.9	4.2
70°-80°	172.0	2.2
80°-90°	45.3	0.6
90°-100°	362.3	4.6
100°-110°	975.9	12.4
110°-120°	1024.2	13.0
120°-130°	831.1	10.5
130°-140°	651.8	8.2
140°-150°	500.4	6.3
150°-160°	359.8	4.6
160°-170°	219.8	2.8
170°-180°	74.1	0.9
0°-30°	826.3	10.5
0°-40°	1350.4	17.1
0°-60°	2351.1	29.8
0°-90°	2902.3	36.7
90°-120°	2362.3	29.9
90°-150°	4345.6	55.0
90°-180°	4999.0	63.3
0°-180°	7901.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1063	1063	1063	1063	1063	
5°	1067	1056	1060	1057	1056	101
15°	1026	1018	1026	1026	1025	289
25°	948	941	954	952	952	436
35°	834	832	846	840	840	521
45°	695	693	700	691	689	535
55°	531	525	524	517	517	474
65°	344	337	338	335	335	341
75°	149	155	164	165	165	161
85°	22	33	39	40	39	29
90°	2	6	12	13	13	5
95°	55	197	594	304	210	58
105°	180	281	1079	1615	1515	190
115°	319	390	899	1736	1964	314
125°	435	500	807	1364	1605	389
135°	524	585	784	1100	1246	404
145°	606	653	774	941	1010	380
155°	688	713	768	844	871	317
165°	746	754	770	801	805	210
175°	775	774	772	782	780	74
180°	774	774	774	774	774	

TEST NUMBER: P563014

CATALOG NUMBER: SQ4-PC3-125U-075D-835-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1062.8	1062.8	1062.8	1062.8	1062.8
2.5°	1069.1	1059.8	1062.8	1060.3	1056.5
5°	1066.7	1056.1	1059.8	1056.9	1055.9
7.5°	1059.0	1048.5	1053.3	1051.4	1050.4
10°	1052.0	1041.4	1047.0	1045.1	1044.1
12.5°	1042.5	1032.7	1039.2	1037.2	1037.0
15°	1026.4	1017.7	1026.4	1026.4	1025.4
17.5°	1006.1	998.2	1007.5	1008.1	1007.5
20°	991.9	983.3	994.9	993.9	994.9
22.5°	974.6	967.5	979.9	977.4	978.4
25°	947.7	940.9	954.5	951.6	951.6
27.5°	915.8	911.0	925.8	922.7	922.7
30°	894.5	889.7	905.3	901.4	901.4
32.5°	870.9	867.6	882.5	877.8	877.8
35°	833.5	831.6	846.3	840.4	840.4
37.5°	794.9	793.2	806.5	799.4	797.1
40°	766.6	765.6	777.4	769.5	769.5
42.5°	738.2	737.3	747.5	738.0	738.0
45°	694.7	692.8	699.7	690.8	688.8
47.5°	647.3	645.4	649.7	640.0	639.0
50°	615.0	613.1	615.0	606.2	605.2
52.5°	582.0	578.5	578.8	570.0	569.8
55°	531.4	524.7	524.5	516.6	516.6
57.5°	477.9	469.0	469.8	463.1	462.1
60°	440.9	431.2	432.0	426.1	425.1
62.5°	404.6	393.5	395.8	389.1	388.9
65°	344.4	336.7	337.5	334.6	334.6
67.5°	286.6	279.4	284.6	282.2	282.0
70°	244.0	239.2	246.0	246.0	245.0
72.5°	204.7	204.5	213.0	213.0	213.5
75°	148.6	155.3	164.3	165.3	165.3
77.5°	99.2	111.1	121.0	121.4	121.2
80°	70.9	84.3	93.5	95.4	94.5
82.5°	48.0	62.3	69.9	71.8	70.9
85°	21.6	33.2	39.4	40.3	39.4
87.5°	6.7	14.4	18.1	18.3	16.7
90°	2.0	5.8	11.8	12.8	12.8
92.5°	24.1	85.0	168.1	80.9	56.2
95°	55.2	197.0	593.9	303.7	210.1
97.5°	88.2	225.6	931.5	778.2	586.8
100°	113.4	236.9	1038.8	1086.9	901.7
102.5°	137.9	252.9	1074.3	1318.1	1166.1
105°	180.5	280.9	1079.3	1614.6	1515.3
107.5°	220.8	310.3	1033.3	1767.0	1792.7
110°	247.6	332.5	991.5	1814.4	1907.9



TEST NUMBER: P563014

CATALOG NUMBER: SQ4-PC3-125U-075D-835-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	276.0	354.7	951.2	1803.9	1957.7
115°	318.6	390.0	898.7	1736.5	1964.2
117.5°	357.5	424.5	858.1	1629.0	1882.5
120°	382.8	447.4	837.6	1551.8	1812.2
122.5°	404.9	468.7	822.6	1472.9	1732.5
125°	435.1	499.7	807.0	1363.9	1605.1
127.5°	464.1	527.7	797.1	1267.8	1483.1
130°	481.4	545.1	793.2	1212.8	1401.8
132.5°	498.8	561.7	789.2	1164.3	1337.9
135°	523.8	584.6	784.3	1100.3	1246.0
137.5°	547.7	606.0	781.7	1046.1	1165.7
140°	564.3	620.2	779.4	1012.7	1120.7
142.5°	581.7	633.7	777.8	981.5	1072.5
145°	605.7	653.0	774.4	940.7	1010.2
147.5°	631.8	672.9	771.1	906.5	961.1
150°	649.1	684.8	769.5	885.0	930.3
152.5°	664.9	696.0	768.7	867.4	904.2
155°	687.6	712.7	767.5	844.1	871.1
157.5°	707.5	727.0	767.7	827.7	845.8
160°	720.2	736.6	768.5	818.1	831.6
162.5°	731.2	744.5	769.3	810.2	819.8
165°	745.8	754.5	770.5	801.1	805.0
167.5°	757.6	762.7	771.5	794.2	795.7
170°	765.5	767.5	771.5	790.2	790.2
172.5°	770.3	770.7	772.2	786.3	786.3
175°	775.4	774.4	771.5	782.3	780.3
177.5°	777.6	776.0	772.1	778.3	776.8
180°	774.4	774.4	774.4	774.4	774.4

(END OF REPORT)