

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: P561677

Luminaire Tested: **SQ4-PC3-125U-050D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P561677  
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-050D-92765-1D-UNV-STD-W-4 (4500K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7780.6 lumens  
Efficiency: N/A  
Efficacy: 125.3 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

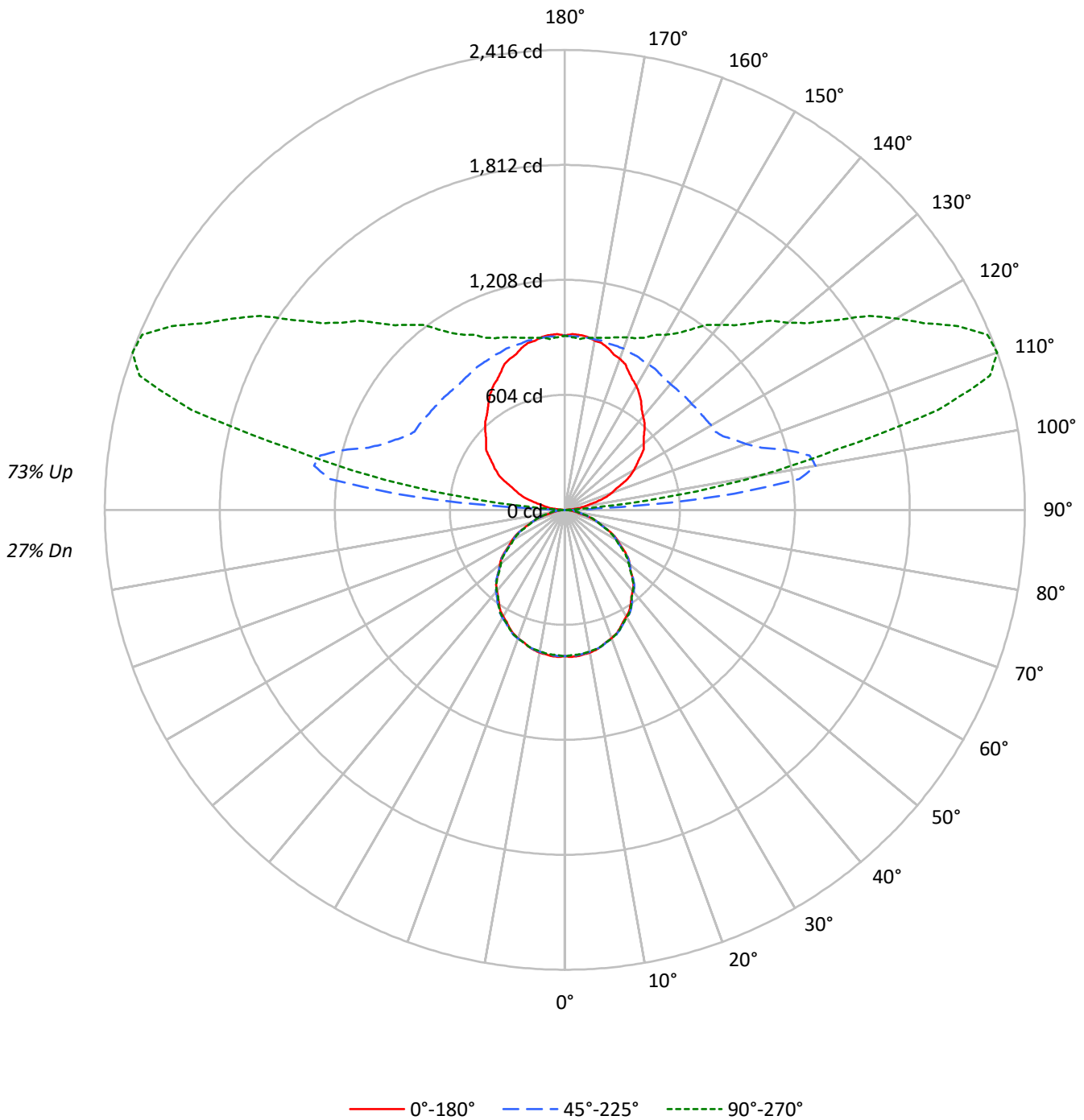
Input Watts (W): 62.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot





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**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	102	102	102	102	91	91	91	91	71	71	71	52	52	52	35	35	35	27		
1	93	89	85	81	83	79	76	73	62	60	58	46	44	43	31	30	30	23		
2	84	77	71	66	75	69	64	60	54	51	48	40	38	36	27	26	25	19		
3	77	68	61	55	68	61	55	50	48	43	40	35	33	30	24	22	21	16		
4	70	60	52	47	62	54	47	42	42	38	34	31	28	26	21	20	18	14		
5	64	53	45	40	57	48	41	36	38	33	29	28	25	22	19	17	16	12		
6	59	48	40	34	53	43	36	31	34	29	25	25	22	19	17	15	14	11		
7	55	43	35	30	49	38	32	27	30	26	22	23	20	17	16	14	12	9		
8	50	39	31	26	45	35	28	24	28	23	19	21	18	15	15	12	11	8		
9	47	35	28	23	42	32	25	21	25	21	17	19	16	14	13	11	10	7		
10	44	32	25	20	39	29	23	19	23	19	15	18	14	12	12	10	9	7		

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

	0°	45°	90°
0°	7093	7093	7093
5°	7146	7100	7074
10°	7129	7096	7075
15°	7091	7091	7084
20°	7045	7065	7065
25°	6978	7029	7007
30°	6893	6977	6946
35°	6791	6895	6847
40°	6678	6772	6704
45°	6557	6604	6502
50°	6386	6386	6284
55°	6183	6103	6011
60°	5884	5766	5674
65°	5438	5331	5283
70°	4761	4802	4780
75°	3832	4238	4263
80°	2726	3592	3629
85°	1662	3017	3017



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.8	0.9
10°-20°	208.8	2.7
20°-30°	316.2	4.1
30°-40°	379.1	4.9
40°-50°	386.5	5.0
50°-60°	337.4	4.3
60°-70°	241.5	3.1
70°-80°	124.4	1.6
80°-90°	31.5	0.4
90°-100°	416.8	5.4
100°-110°	1186.1	15.2
110°-120°	1136.4	14.6
120°-130°	899.4	11.6
130°-140°	721.9	9.3
140°-150°	565.2	7.3
150°-160°	413.5	5.3
160°-170°	256.2	3.3
170°-180°	86.9	1.1
0°-30°	597.7	7.7
0°-40°	976.8	12.6
0°-60°	1700.7	21.9
0°-90°	2098.1	27.0
90°-120°	2739.4	35.2
90°-150°	4925.9	63.3
90°-180°	5682.0	73.0
0°-180°	7780.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	769	769	769	769	769	
5°	772	764	767	764	764	73
15°	742	736	742	742	742	209
25°	686	681	690	688	688	315
35°	603	602	612	608	608	377
45°	502	501	506	500	498	387
55°	384	380	379	374	374	343
65°	249	244	244	242	242	246
75°	108	112	119	120	120	116
85°	16	24	28	29	28	21
90°	0	0	0	0	0	3
95°	45	180	807	279	172	52
105°	184	280	1209	2135	2030	195
115°	343	414	916	1942	2280	337
125°	484	536	875	1452	1736	433
135°	591	641	864	1226	1386	456
145°	697	733	871	1061	1157	436
155°	796	815	892	959	998	368
165°	880	883	903	922	936	247
175°	922	917	913	908	901	87
180°	915	915	915	915	915	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	768.8	768.8	768.8	768.8	768.8
2.5°	773.3	766.6	768.8	767.0	764.2
5°	771.6	764.0	766.6	764.5	763.8
7.5°	766.1	758.4	761.9	760.5	759.8
10°	760.9	753.3	757.4	755.9	755.2
12.5°	754.1	747.0	751.7	750.2	750.1
15°	742.4	736.2	742.4	742.4	741.7
17.5°	727.8	722.1	728.8	729.2	728.8
20°	717.5	711.2	719.6	718.9	719.6
22.5°	705.0	699.8	708.8	707.0	707.7
25°	685.5	680.6	690.5	688.3	688.3
27.5°	662.4	658.9	669.7	667.4	667.4
30°	647.0	643.6	654.9	652.0	652.0
32.5°	630.0	627.6	638.4	634.9	634.9
35°	602.9	601.5	612.2	607.9	607.9
37.5°	575.0	573.8	583.4	578.2	576.6
40°	554.5	553.8	562.3	556.6	556.6
42.5°	534.0	533.3	540.7	533.9	533.9
45°	502.5	501.1	506.1	499.7	498.3
47.5°	468.2	466.8	469.9	462.9	462.3
50°	444.9	443.5	444.9	438.5	437.8
52.5°	421.0	418.5	418.7	412.3	412.1
55°	384.4	379.5	379.4	373.7	373.7
57.5°	345.7	339.3	339.8	335.0	334.3
60°	318.9	311.9	312.5	308.2	307.5
62.5°	292.7	284.6	286.3	281.4	281.3
65°	249.1	243.6	244.2	242.0	242.0
67.5°	207.3	202.1	205.9	204.1	204.0
70°	176.5	173.0	178.0	177.9	177.2
72.5°	148.1	147.9	154.0	154.0	154.5
75°	107.5	112.4	118.9	119.6	119.6
77.5°	71.8	80.4	87.6	87.8	87.7
80°	51.3	61.0	67.6	69.0	68.3
82.5°	34.7	45.0	50.5	51.9	51.3
85°	15.7	24.0	28.5	29.2	28.5
87.5°	4.6	9.6	11.4	11.4	10.3
90°	0.0	0.0	0.0	0.0	0.0
92.5°	13.9	73.8	171.1	49.8	37.6
95°	45.2	179.6	807.0	279.3	172.2
97.5°	83.1	210.3	1242.8	889.3	609.4
100°	109.6	228.6	1337.4	1354.7	1043.5
102.5°	138.8	248.3	1316.6	1734.0	1462.3
105°	184.4	279.6	1208.7	2135.1	2029.6
107.5°	230.6	316.0	1082.8	2248.1	2342.0
110°	262.6	342.5	1010.5	2204.9	2415.7

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	293.2	369.1	961.8	2102.5	2403.2
115°	342.6	414.0	916.5	1941.7	2280.1
117.5°	386.1	453.1	889.8	1765.8	2124.2
120°	420.9	477.0	887.0	1665.2	2008.8
122.5°	448.7	504.8	880.0	1577.0	1896.1
125°	483.5	536.2	874.8	1451.7	1735.7
127.5°	521.4	570.7	872.0	1376.8	1610.8
130°	540.9	590.2	867.9	1324.7	1528.7
132.5°	561.8	609.7	867.9	1284.0	1471.7
135°	591.3	640.6	864.4	1226.3	1386.1
137.5°	619.1	667.1	864.0	1177.4	1315.5
140°	640.0	689.3	862.6	1137.0	1269.6
142.5°	663.7	704.8	866.8	1104.6	1223.7
145°	697.4	733.1	871.3	1061.3	1156.6
147.5°	726.3	761.0	879.0	1017.6	1099.9
150°	751.3	775.1	881.8	1003.1	1060.9
152.5°	770.8	796.0	884.5	983.5	1037.2
155°	796.5	815.2	892.2	959.2	998.3
157.5°	828.5	839.8	893.9	948.1	976.0
160°	845.2	853.7	900.9	939.7	963.5
162.5°	855.0	864.8	902.3	932.6	951.0
165°	880.0	883.4	902.6	922.1	935.7
167.5°	897.1	894.0	910.6	919.5	924.9
170°	902.6	900.9	907.9	909.7	916.5
172.5°	915.2	909.4	912.0	906.9	912.4
175°	921.8	916.7	913.1	907.7	900.9
177.5°	924.5	916.4	912.0	906.5	907.9
180°	914.8	914.8	914.8	914.8	914.8

(END OF REPORT)