

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: P561639

Luminaire Tested: **SQ4-PC3-100U-075D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P561639  
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-PC3-100U-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 1000 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: 7751.3 lumens  
Efficiency: N/A  
Efficacy: 120.9 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: General Diffuse

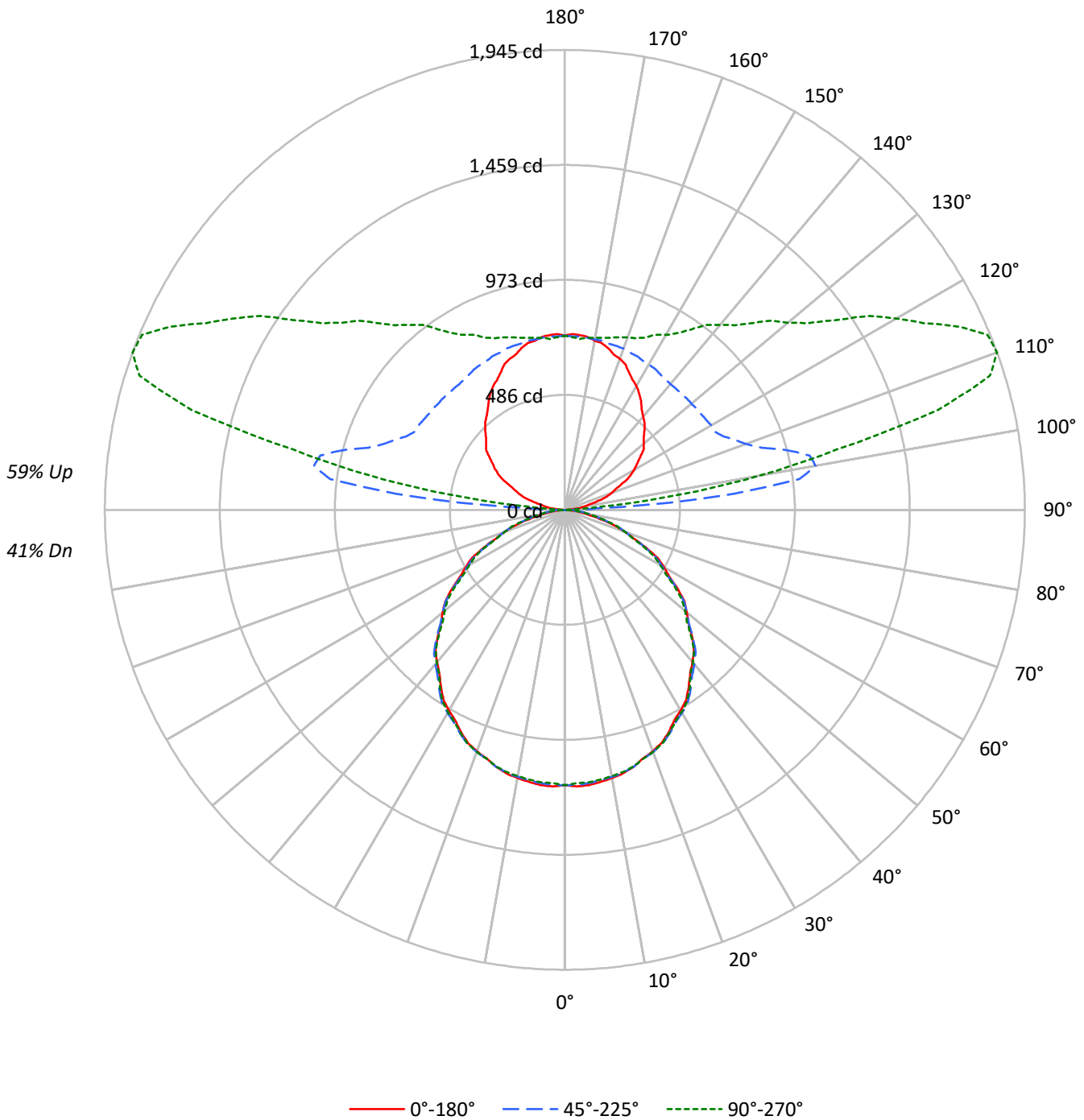
Input Watts (W): 64.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				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	105	105	105	105	96	96	96	96	78	78	78	62	62	62	48	48	48	41
1	96	92	88	84	87	84	80	77	69	66	64	55	53	52	42	41	40	35
2	87	80	74	69	79	73	68	64	60	56	53	48	46	43	37	36	34	29
3	80	70	63	57	72	64	58	53	53	48	45	43	39	37	33	31	29	25
4	73	62	54	48	66	57	50	45	47	42	38	38	34	31	29	27	25	21
5	67	55	47	41	61	51	44	38	42	37	33	34	30	27	26	24	22	18
6	61	49	41	36	56	45	38	33	38	32	28	31	27	24	24	21	19	16
7	57	45	37	31	51	41	34	29	34	29	25	28	24	21	22	19	17	14
8	52	40	33	27	48	37	30	26	31	26	22	25	21	19	20	17	15	13
9	49	37	29	24	44	34	27	23	28	23	20	23	19	17	18	16	14	11
10	46	34	27	22	42	31	25	20	26	21	18	21	18	15	17	14	12	10

**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



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.2	1.4
10°-20°	316.1	4.1
20°-30°	478.8	6.2
30°-40°	574.0	7.4
40°-50°	585.2	7.6
50°-60°	510.9	6.6
60°-70°	365.8	4.7
70°-80°	188.4	2.4
80°-90°	47.6	0.6
90°-100°	335.6	4.3
100°-110°	954.8	12.3
110°-120°	914.8	11.8
120°-130°	724.0	9.3
130°-140°	581.1	7.5
140°-150°	455.0	5.9
150°-160°	332.9	4.3
160°-170°	206.2	2.7
170°-180°	70.0	0.9
0°-30°	905.1	11.7
0°-40°	1479.0	19.1
0°-60°	2575.2	33.2
0°-90°	3177.0	41.0
90°-120°	2205.2	28.4
90°-150°	3965.3	51.2
90°-180°	4574.0	59.0
0°-180°	7751.3	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	2
95°	36	144	650	225	139	42
105°	148	225	973	1719	1634	157
115°	276	333	738	1563	1835	272
125°	389	432	704	1169	1397	348
135°	476	516	696	987	1116	367
145°	561	590	701	854	931	351
155°	641	656	718	772	804	296
165°	708	711	727	742	753	199
175°	742	738	735	731	725	70
180°	736	736	736	736	736	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1164.1	1164.1	1164.1	1164.1	1164.1
2.5°	1171.0	1160.8	1164.1	1161.4	1157.2
5°	1168.4	1156.8	1160.8	1157.6	1156.5
7.5°	1160.0	1148.4	1153.7	1151.5	1150.5
10°	1152.2	1140.6	1146.8	1144.6	1143.6
12.5°	1141.9	1131.1	1138.2	1136.0	1135.8
15°	1124.2	1114.7	1124.2	1124.2	1123.1
17.5°	1102.0	1093.3	1103.5	1104.1	1103.5
20°	1086.5	1077.0	1089.7	1088.6	1089.7
22.5°	1067.5	1059.7	1073.3	1070.5	1071.6
25°	1037.9	1030.6	1045.5	1042.3	1042.3
27.5°	1003.0	997.8	1014.0	1010.6	1010.6
30°	979.7	974.5	991.6	987.3	987.3
32.5°	953.9	950.3	966.6	961.4	961.4
35°	912.9	910.8	926.9	920.5	920.5
37.5°	870.7	868.8	883.4	875.6	873.0
40°	839.6	838.6	851.5	842.9	842.9
42.5°	808.6	807.5	818.7	808.4	808.4
45°	760.9	758.8	766.3	756.6	754.5
47.5°	709.0	706.9	711.6	701.0	699.9
50°	673.6	671.5	673.6	663.9	662.9
52.5°	637.4	633.6	634.0	624.3	624.1
55°	582.0	574.7	574.5	565.9	565.9
57.5°	523.4	513.7	514.6	507.2	506.1
60°	482.9	472.3	473.2	466.7	465.6
62.5°	443.2	431.0	433.5	426.2	426.0
65°	377.2	368.8	369.7	366.5	366.5
67.5°	313.9	306.1	311.7	309.1	308.9
70°	267.3	262.0	269.5	269.4	268.4
72.5°	224.2	224.0	233.2	233.3	233.9
75°	162.8	170.1	180.0	181.1	181.1
77.5°	108.6	121.7	132.6	133.0	132.8
80°	77.6	92.4	102.4	104.5	103.5
82.5°	52.6	68.2	76.5	78.7	77.6
85°	23.7	36.4	43.1	44.2	43.1
87.5°	6.9	14.5	17.2	17.2	15.5
90°	0.0	0.0	0.0	0.0	0.0
92.5°	11.2	59.4	137.8	40.1	30.2
95°	36.4	144.5	649.6	224.8	138.6
97.5°	66.9	169.3	1000.5	715.9	490.6
100°	88.2	184.0	1076.6	1090.5	840.0
102.5°	111.7	199.9	1059.8	1395.9	1177.1
105°	148.4	225.1	973.0	1718.7	1633.8
107.5°	185.6	254.4	871.7	1809.7	1885.3
110°	211.4	275.7	813.4	1774.9	1944.6

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	236.0	297.1	774.2	1692.5	1934.6
115°	275.8	333.3	737.8	1563.0	1835.4
117.5°	310.8	364.7	716.3	1421.4	1710.0
120°	338.8	384.0	714.0	1340.5	1617.0
122.5°	361.2	406.4	708.4	1269.5	1526.3
125°	389.2	431.6	704.2	1168.6	1397.2
127.5°	419.7	459.4	702.0	1108.3	1296.7
130°	435.4	475.1	698.6	1066.4	1230.6
132.5°	452.2	490.8	698.6	1033.6	1184.7
135°	476.0	515.7	695.8	987.1	1115.8
137.5°	498.4	537.0	695.5	947.8	1059.0
140°	515.2	554.9	694.4	915.2	1022.0
142.5°	534.3	567.4	697.8	889.2	985.1
145°	561.4	590.2	701.4	854.4	931.0
147.5°	584.7	612.6	707.6	819.1	885.4
150°	604.8	624.0	709.8	807.5	854.0
152.5°	620.5	640.8	712.1	791.7	835.0
155°	641.2	656.3	718.2	772.1	803.6
157.5°	667.0	676.0	719.6	763.2	785.7
160°	680.4	687.3	725.2	756.5	775.6
162.5°	688.3	696.2	726.3	750.8	765.5
165°	708.4	711.2	726.6	742.3	753.2
167.5°	722.1	719.7	733.1	740.2	744.5
170°	726.6	725.2	730.8	732.3	737.8
172.5°	736.7	732.0	734.2	730.1	734.5
175°	742.0	737.9	735.0	730.7	725.2
177.5°	744.3	737.7	734.2	729.7	730.8
180°	736.4	736.4	736.4	736.4	736.4

(END OF REPORT)