

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: P561649

Luminaire Tested: **SQ4-PC3-100U-100D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P561649  
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-100D-92765-1D-UNV-STD-W-4 (3500K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

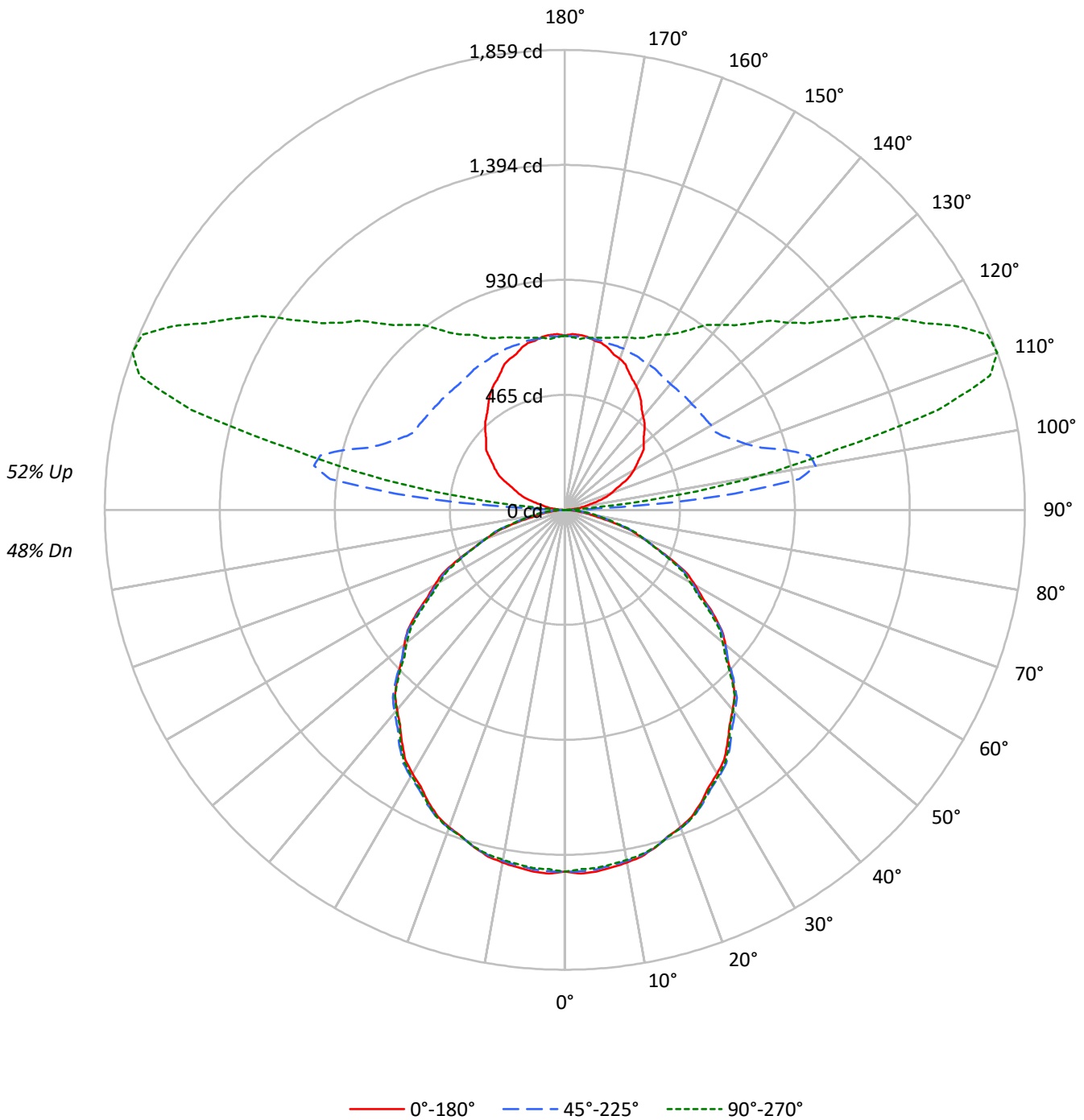
Lumens per Lamp: N/A  
Luminaire Lumens: 8364.5 lumens  
Efficiency: N/A  
Efficacy: 111.8 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 74.8  
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



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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	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54	48
1	97	93	89	86	89	86	82	79	72	70	68	59	58	56	48	47	46	40
2	89	81	75	70	81	75	70	65	63	59	56	52	49	47	42	40	39	34
3	81	71	64	58	74	66	60	54	56	51	47	46	43	40	37	35	33	29
4	74	63	55	49	68	58	51	46	49	44	40	41	37	34	33	30	28	24
5	68	56	48	42	62	52	45	40	44	39	34	37	33	29	30	27	25	21
6	62	50	42	36	57	47	39	34	40	34	30	33	29	26	27	24	22	19
7	58	45	37	32	53	42	35	30	36	30	26	30	26	23	25	22	19	16
8	53	41	33	28	49	38	31	27	33	27	23	28	23	20	23	19	17	15
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	15	13
10	46	34	27	22	43	32	26	21	28	22	19	23	19	16	19	16	14	12

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

	0°	45°	90°
0°	13495	13495	13495
5°	13597	13509	13459
10°	13564	13500	13463
15°	13493	13493	13479
20°	13404	13444	13444
25°	13277	13373	13333
30°	13116	13274	13217
35°	12920	13118	13027
40°	12706	12886	12756
45°	12476	12564	12369
50°	12150	12150	11955
55°	11765	11612	11437
60°	11197	10972	10797
65°	10348	10141	10053
70°	9061	9134	9096
75°	7290	8063	8110
80°	5180	6838	6907
85°	3155	5738	5738



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	138.4	1.7
10°-20°	397.3	4.7
20°-30°	601.6	7.2
30°-40°	721.2	8.6
40°-50°	735.4	8.8
50°-60°	642.0	7.7
60°-70°	459.6	5.5
70°-80°	236.7	2.8
80°-90°	59.9	0.7
90°-100°	320.7	3.8
100°-110°	912.7	10.9
110°-120°	874.4	10.5
120°-130°	692.1	8.3
130°-140°	555.5	6.6
140°-150°	434.9	5.2
150°-160°	318.2	3.8
160°-170°	197.1	2.4
170°-180°	66.9	0.8
0°-30°	1137.3	13.6
0°-40°	1858.5	22.2
0°-60°	3235.8	38.7
0°-90°	3992.0	47.7
90°-120°	2107.9	25.2
90°-150°	3790.4	45.3
90°-180°	4373.0	52.3
0°-180°	8364.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1463	1463	1463	1463	1463	
5°	1468	1454	1459	1454	1453	139
15°	1413	1401	1413	1413	1411	398
25°	1304	1295	1314	1310	1310	600
35°	1147	1144	1165	1157	1157	717
45°	956	954	963	951	948	736
55°	731	722	722	711	711	652
65°	474	463	464	460	460	469
75°	204	214	226	228	228	221
85°	30	46	54	56	54	40
90°	0	0	0	0	0	3
95°	35	138	621	215	132	40
105°	142	215	930	1643	1562	150
115°	264	319	705	1494	1754	260
125°	372	413	673	1117	1336	333
135°	455	493	665	944	1067	351
145°	537	564	670	817	890	335
155°	613	627	686	738	768	283
165°	677	680	695	710	720	190
175°	709	705	703	698	693	67
180°	704	704	704	704	704	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1462.7	1462.7	1462.7	1462.7	1462.7
2.5°	1471.4	1458.7	1462.7	1459.3	1454.0
5°	1468.1	1453.6	1458.6	1454.5	1453.2
7.5°	1457.6	1443.0	1449.7	1447.0	1445.6
10°	1447.8	1433.2	1441.0	1438.3	1437.0
12.5°	1434.8	1421.3	1430.2	1427.5	1427.2
15°	1412.6	1400.7	1412.6	1412.6	1411.2
17.5°	1384.7	1373.8	1386.6	1387.4	1386.6
20°	1365.2	1353.3	1369.3	1367.9	1369.3
22.5°	1341.4	1331.6	1348.7	1345.2	1346.5
25°	1304.2	1295.0	1313.7	1309.7	1309.7
27.5°	1260.4	1253.7	1274.2	1269.8	1269.8
30°	1231.1	1224.5	1246.0	1240.6	1240.6
32.5°	1198.6	1194.1	1214.6	1208.1	1208.1
35°	1147.1	1144.5	1164.7	1156.6	1156.6
37.5°	1094.0	1091.7	1110.0	1100.2	1097.0
40°	1055.0	1053.7	1069.9	1059.1	1059.1
42.5°	1016.0	1014.7	1028.8	1015.8	1015.8
45°	956.2	953.5	962.9	950.7	948.0
47.5°	890.9	888.2	894.1	880.8	879.5
50°	846.5	843.8	846.5	834.3	832.9
52.5°	801.0	796.2	796.6	784.4	784.2
55°	731.4	722.1	721.9	711.0	711.0
57.5°	657.7	645.5	646.6	637.3	636.0
60°	606.8	593.5	594.6	586.4	585.1
62.5°	556.9	541.5	544.7	535.5	535.2
65°	474.0	463.4	464.5	460.5	460.5
67.5°	394.4	384.6	391.7	388.4	388.2
70°	335.9	329.3	338.6	338.6	337.2
72.5°	281.7	281.4	293.1	293.1	293.9
75°	204.5	213.8	226.2	227.5	227.5
77.5°	136.5	152.9	166.6	167.1	166.9
80°	97.5	116.1	128.7	131.3	130.0
82.5°	66.1	85.7	96.2	98.8	97.5
85°	29.8	45.7	54.2	55.5	54.2
87.5°	8.7	18.2	21.7	21.6	19.5
90°	0.0	0.0	0.0	0.0	0.0
92.5°	10.7	56.8	131.7	38.3	28.9
95°	34.8	138.2	620.9	214.9	132.5
97.5°	64.0	161.8	956.3	684.3	468.9
100°	84.3	175.9	1029.1	1042.4	802.9
102.5°	106.8	191.1	1013.1	1334.3	1125.2
105°	141.9	215.1	930.1	1642.9	1561.7
107.5°	177.5	243.1	833.2	1729.9	1802.1
110°	202.1	263.6	777.5	1696.6	1858.8

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	225.6	284.0	740.1	1617.8	1849.2
115°	263.6	318.6	705.3	1494.1	1754.4
117.5°	297.1	348.6	684.6	1358.7	1634.5
120°	323.9	367.0	682.5	1281.4	1545.7
122.5°	345.3	388.4	677.2	1213.5	1459.0
125°	372.0	412.6	673.1	1117.1	1335.6
127.5°	401.2	439.2	671.0	1059.4	1239.5
130°	416.2	454.1	667.8	1019.3	1176.3
132.5°	432.3	469.2	667.8	988.0	1132.4
135°	455.0	493.0	665.1	943.6	1066.6
137.5°	476.4	513.3	664.8	906.0	1012.3
140°	492.5	530.4	663.8	874.9	976.9
142.5°	510.7	542.3	667.0	850.0	941.6
145°	536.6	564.1	670.5	816.7	889.9
147.5°	558.9	585.5	676.4	783.0	846.3
150°	578.1	596.4	678.5	771.8	816.3
152.5°	593.1	612.5	680.6	756.8	798.1
155°	612.9	627.3	686.5	738.1	768.2
157.5°	637.5	646.2	687.9	729.6	751.0
160°	650.4	656.9	693.2	723.1	741.4
162.5°	657.9	665.5	694.3	717.6	731.8
165°	677.2	679.8	694.6	709.5	720.0
167.5°	690.3	687.9	700.7	707.5	711.7
170°	694.6	693.2	698.6	700.0	705.3
172.5°	704.2	699.7	701.8	697.9	702.0
175°	709.3	705.3	702.6	698.4	693.2
177.5°	711.4	705.1	701.8	697.5	698.6
180°	703.9	703.9	703.9	703.9	703.9

(END OF REPORT)