

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: P561493

Luminaire Tested: **SQ4-PC3-050U-100D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P561493  
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-PC3-050U-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 500 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

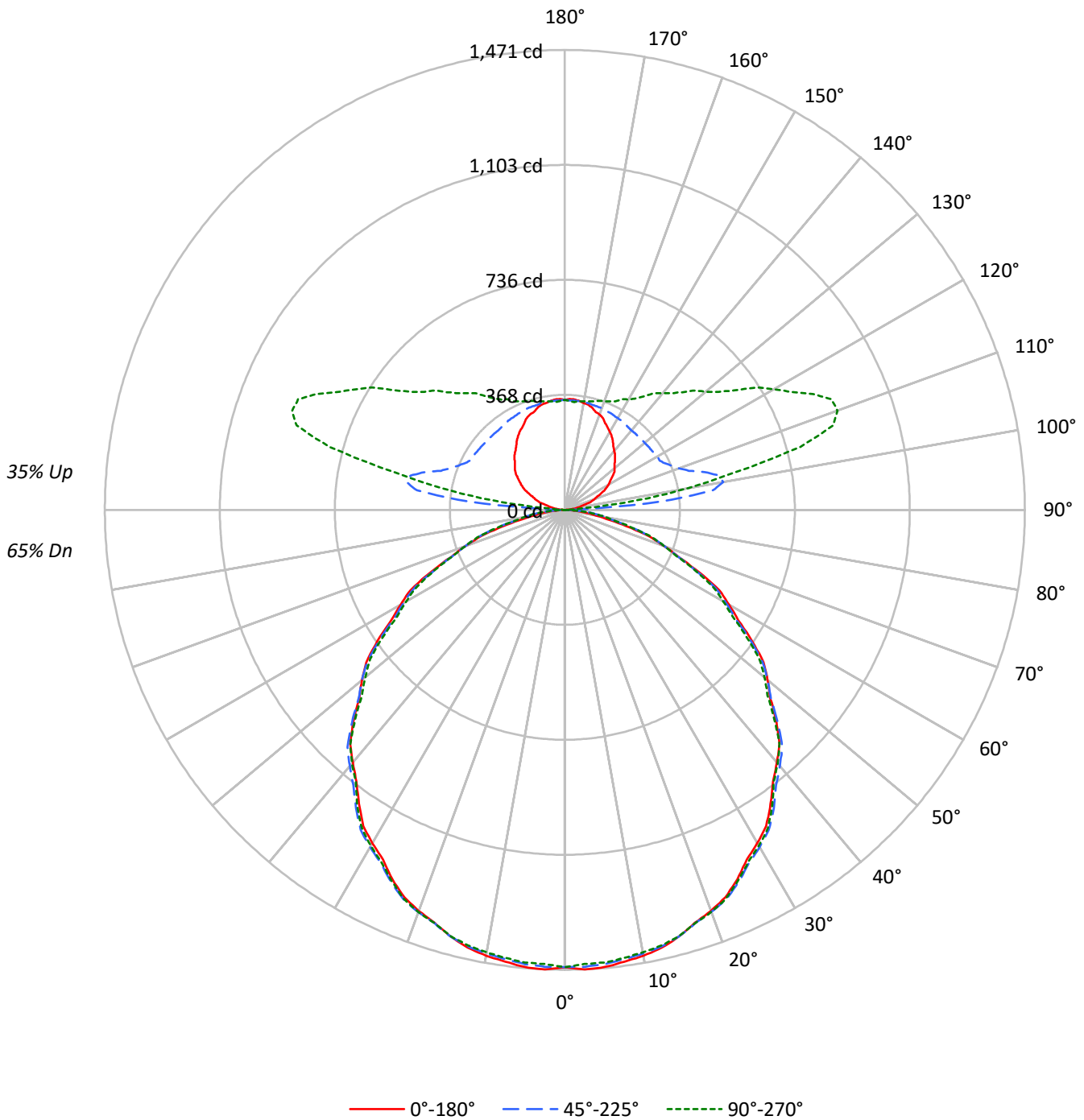
Lumens per Lamp: N/A  
Luminaire Lumens: 6174.7 lumens  
Efficiency: N/A  
Efficacy: 106.1 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 58.2  
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	111	111	111	111	104	104	104	104	91	91	91	80	80	80	70	70	70	65
1	101	97	93	89	95	91	88	85	80	78	75	71	69	67	62	60	59	55
2	92	85	78	73	86	80	74	69	71	66	63	62	59	56	54	52	50	46
3	84	74	67	61	79	70	63	58	62	57	53	55	51	47	48	45	42	39
4	77	66	58	51	72	62	55	49	55	49	45	49	44	41	43	39	36	33
5	71	59	50	44	66	55	48	42	49	43	39	44	39	35	39	35	32	29
6	65	53	44	38	61	50	42	37	45	38	34	40	35	31	35	31	28	25
7	60	48	39	34	56	45	38	32	40	34	30	36	31	27	32	28	25	22
8	56	43	35	30	52	41	34	29	37	31	26	33	28	24	29	25	22	20
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	27	23	20	18
10	49	36	29	24	46	35	28	23	31	25	21	28	23	20	25	21	18	16

**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	2.2
10°-20°	397.3	6.4
20°-30°	601.6	9.7
30°-40°	721.2	11.7
40°-50°	735.4	11.9
50°-60°	642.0	10.4
60°-70°	459.6	7.4
70°-80°	236.7	3.8
80°-90°	59.9	1.0
90°-100°	160.1	2.6
100°-110°	455.6	7.4
110°-120°	436.5	7.1
120°-130°	345.5	5.6
130°-140°	277.3	4.5
140°-150°	217.1	3.5
150°-160°	158.8	2.6
160°-170°	98.4	1.6
170°-180°	33.4	0.5
0°-30°	1137.3	18.4
0°-40°	1858.5	30.1
0°-60°	3235.8	52.4
0°-90°	3992.0	64.7
90°-120°	1052.2	17.0
90°-150°	1892.1	30.6
90°-180°	2183.0	35.4
0°-180°	6174.7	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	2
95°	17	69	310	107	66	20
105°	71	107	464	820	780	75
115°	132	159	352	746	876	130
125°	186	206	336	558	667	166
135°	227	246	332	471	532	175
145°	268	282	335	408	444	167
155°	306	313	343	368	384	141
165°	338	339	347	354	359	95
175°	354	352	351	349	346	34
180°	351	351	351	351	351	

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CATALOG NUMBER: SQ4-PC3-050U-100D-92765-1D-UNV-STD-W-4 (3500K)

**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°	5.3	28.3	65.7	19.1	14.4
95°	17.4	69.0	310.0	107.3	66.1
97.5°	31.9	80.8	477.4	341.6	234.1
100°	42.1	87.8	513.7	520.4	400.8
102.5°	53.3	95.4	505.7	666.1	561.7
105°	70.8	107.4	464.3	820.1	779.6
107.5°	88.6	121.4	415.9	863.5	899.6
110°	100.9	131.6	388.1	846.9	927.9

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	112.6	141.8	369.4	807.6	923.1
115°	131.6	159.0	352.1	745.8	875.8
117.5°	148.3	174.0	341.8	678.3	815.9
120°	161.7	183.2	340.7	639.6	771.6
122.5°	172.4	193.9	338.0	605.8	728.3
125°	185.7	206.0	336.0	557.6	666.7
127.5°	200.3	219.2	335.0	528.9	618.7
130°	207.8	226.7	333.4	508.8	587.2
132.5°	215.8	234.2	333.4	493.2	565.3
135°	227.1	246.1	332.0	471.0	532.4
137.5°	237.8	256.2	331.9	452.3	505.3
140°	245.8	264.8	331.3	436.7	487.7
142.5°	254.9	270.7	333.0	424.3	470.0
145°	267.9	281.6	334.7	407.7	444.2
147.5°	279.0	292.3	337.6	390.9	422.5
150°	288.6	297.7	338.7	385.3	407.5
152.5°	296.1	305.7	339.8	377.8	398.4
155°	306.0	313.1	342.7	368.4	383.5
157.5°	318.3	322.6	343.4	364.2	374.9
160°	324.7	327.9	346.0	361.0	370.1
162.5°	328.4	332.2	346.6	358.2	365.3
165°	338.0	339.3	346.7	354.2	359.4
167.5°	344.6	343.4	349.8	353.2	355.3
170°	346.7	346.1	348.7	349.4	352.1
172.5°	351.5	349.3	350.3	348.4	350.5
175°	354.1	352.1	350.7	348.7	346.0
177.5°	355.1	352.0	350.3	348.2	348.7
180°	351.4	351.4	351.4	351.4	351.4

(END OF REPORT)