

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: P523700

Luminaire Tested: **SQ4-PP3-050U-100D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/24/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P523700  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2103-172-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/24/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PP3-050U-100D-92765-1D-UNV-STD-W-4 (4000K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6249.2 lumens  
Efficiency: N/A  
Efficacy: 107.4 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

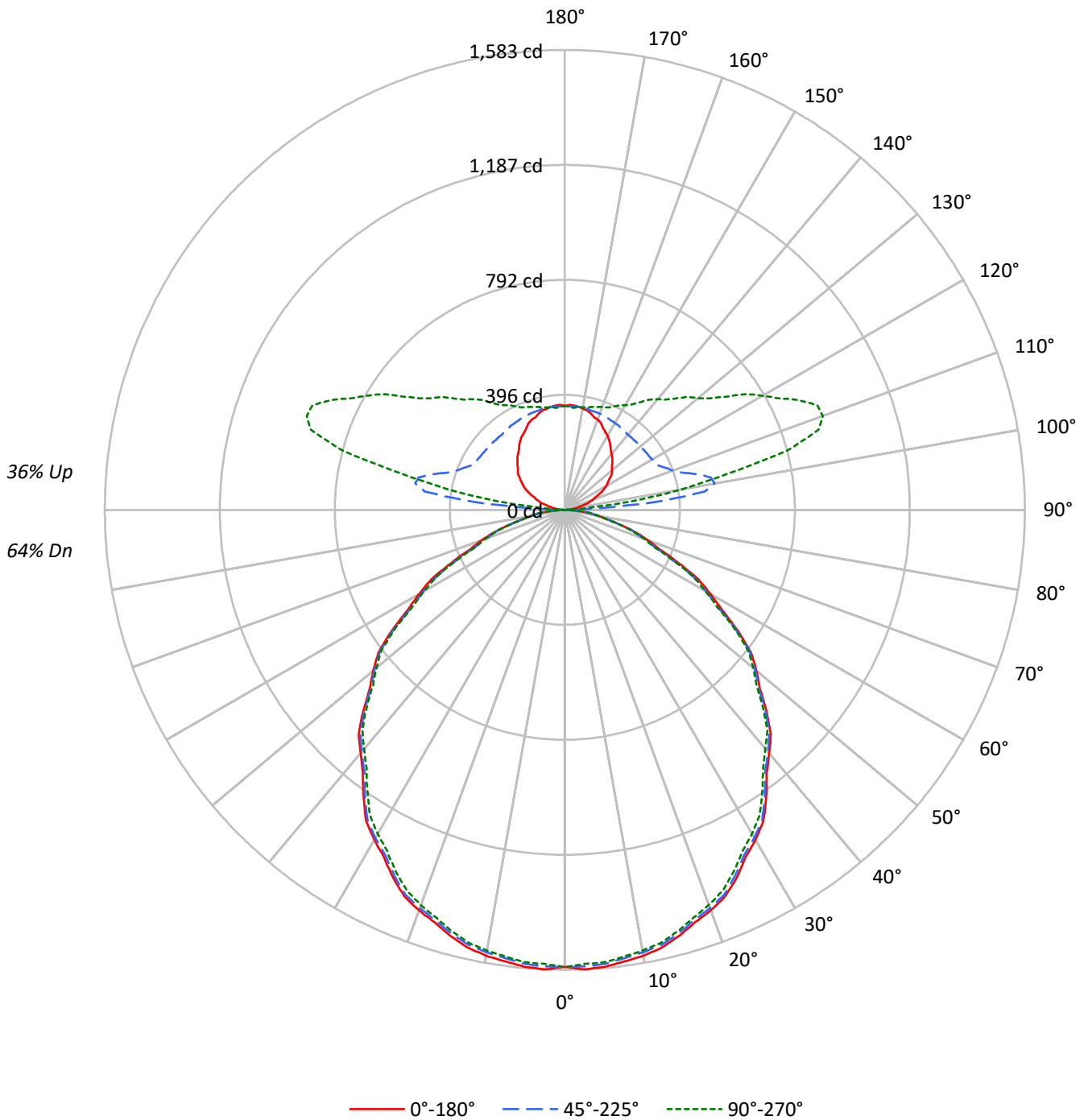
Input Watts (W): 58.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	69	69	69	64
1	101	97	93	90	95	91	88	85	81	78	76	71	69	67	62	60	59	55
2	92	85	79	74	87	80	75	70	71	67	63	62	59	57	55	52	50	46
3	84	75	67	62	79	71	64	59	63	58	53	55	51	48	49	46	43	39
4	77	66	58	52	72	63	56	50	56	50	46	49	45	41	44	40	37	34
5	71	59	51	45	67	56	49	43	50	44	39	44	40	36	39	35	32	30
6	66	53	45	39	61	51	43	38	45	39	35	40	35	32	36	32	29	26
7	61	48	40	34	57	46	38	33	41	35	31	37	32	28	33	29	25	23
8	56	44	36	31	53	42	34	29	38	32	27	34	29	25	30	26	23	21
9	53	40	33	27	49	38	31	26	34	29	24	31	26	23	28	24	21	19
10	49	37	30	25	46	35	28	24	32	26	22	29	24	20	26	22	19	17

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

	0°	45°	90°
0°	14515	14515	14515
5°	14621	14532	14481
10°	14596	14493	14428
15°	14500	14421	14342
20°	14403	14323	14214
25°	14233	14135	13994
30°	13969	13895	13720
35°	13604	13511	13340
40°	13169	13086	12936
45°	12809	12719	12594
50°	12350	12271	12152
55°	11710	11556	11466
60°	10660	10355	10304
65°	9392	9001	8970
70°	8109	7774	7774
75°	6980	6880	6784
80°	6153	6227	6078
85°	4817	5251	5251



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	148.8	2.4
10°-20°	424.8	6.8
20°-30°	636.2	10.2
30°-40°	746.3	11.9
40°-50°	748.6	12.0
50°-60°	638.6	10.2
60°-70°	416.5	6.7
70°-80°	209.0	3.3
80°-90°	57.8	0.9
90°-100°	163.0	2.6
100°-110°	463.9	7.4
110°-120°	444.5	7.1
120°-130°	351.8	5.6
130°-140°	282.4	4.5
140°-150°	221.1	3.5
150°-160°	161.8	2.6
160°-170°	100.2	1.6
170°-180°	34.0	0.5
0°-30°	1209.8	19.4
0°-40°	1956.0	31.3
0°-60°	3343.3	53.5
0°-90°	4026.5	64.4
90°-120°	1071.5	17.1
90°-150°	1926.7	30.8
90°-180°	2223.0	35.6
0°-180°	6249.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1573	1573	1573	1573	1573	
5°	1579	1564	1569	1564	1564	150
15°	1518	1503	1510	1504	1502	428
25°	1398	1382	1388	1376	1375	643
35°	1208	1196	1200	1186	1184	754
45°	982	975	975	965	965	756
55°	728	725	718	714	713	647
65°	430	422	412	410	411	429
75°	196	196	193	192	190	212
85°	46	50	50	50	50	53
90°	0	0	0	0	0	2
95°	18	70	316	109	67	20
105°	72	109	473	835	794	76
115°	134	162	358	760	892	132
125°	189	210	342	568	679	169
135°	231	251	338	480	542	178
145°	273	287	341	415	452	170
155°	312	319	349	375	390	144
165°	344	346	353	361	366	97
175°	360	358	357	355	352	34
180°	358	358	358	358	358	

TEST NUMBER: P523700

CATALOG NUMBER: SQ4-PP3-050U-100D-92765-1D-UNV-STD-W-4 (4000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1573.2	1573.2	1573.2	1573.2	1573.2
2.5°	1583.1	1570.2	1573.2	1570.9	1564.4
5°	1578.7	1563.9	1569.1	1563.6	1563.6
7.5°	1568.0	1551.8	1556.9	1551.4	1551.2
10°	1558.0	1541.9	1547.0	1541.5	1540.1
12.5°	1543.7	1527.5	1533.8	1527.2	1526.9
15°	1518.1	1503.2	1509.8	1504.2	1501.5
17.5°	1489.1	1472.9	1480.8	1473.1	1472.0
20°	1467.0	1450.9	1458.8	1447.7	1447.7
22.5°	1440.6	1424.4	1433.4	1419.1	1419.1
25°	1398.1	1381.9	1388.5	1376.0	1374.7
27.5°	1347.6	1331.7	1338.5	1324.5	1324.2
30°	1311.2	1296.4	1304.3	1289.2	1287.8
32.5°	1271.5	1257.8	1263.5	1248.3	1247.0
35°	1207.8	1195.7	1199.6	1185.7	1184.4
37.5°	1140.8	1128.4	1132.8	1121.0	1120.4
40°	1093.4	1085.3	1086.5	1076.8	1074.1
42.5°	1049.3	1040.1	1041.3	1031.6	1031.1
45°	981.7	975.0	974.8	965.2	965.2
47.5°	910.0	904.9	903.4	895.4	895.1
50°	860.4	856.3	854.9	847.9	846.6
52.5°	808.5	806.6	801.9	796.1	795.8
55°	728.0	725.3	718.4	714.2	712.8
57.5°	640.6	635.2	627.4	621.3	622.4
60°	577.7	572.3	561.2	558.4	558.4
62.5°	517.1	510.6	499.4	495.6	497.7
65°	430.2	422.1	412.3	409.5	410.9
67.5°	351.3	344.0	333.4	333.4	332.3
70°	300.6	296.5	288.2	288.2	288.2
72.5°	255.4	253.5	247.4	247.3	246.3
75°	195.8	195.8	193.0	191.6	190.3
77.5°	146.7	147.2	145.9	144.4	142.0
80°	115.8	118.5	117.2	115.8	114.4
82.5°	87.1	89.8	89.6	87.1	86.9
85°	45.5	49.5	49.6	49.6	49.6
87.5°	12.1	16.4	17.6	17.7	18.8
90°	0.0	0.0	0.0	0.0	0.0
92.5°	5.4	28.9	66.9	19.5	14.7
95°	17.7	70.2	315.6	109.3	67.3
97.5°	32.5	82.3	486.1	347.8	238.4
100°	42.9	89.4	523.1	529.9	408.2
102.5°	54.3	97.1	515.0	678.3	572.0
105°	72.1	109.4	472.8	835.1	793.9
107.5°	90.2	123.6	423.5	879.3	916.0
110°	102.7	134.0	395.2	862.4	944.9

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	<i>114.7</i>	144.4	376.2	822.4	940.0
115°	<i>134.0</i>	161.9	358.5	759.5	891.8
117.5°	<i>151.0</i>	177.2	348.0	690.7	830.9
120°	<i>164.6</i>	186.6	346.9	651.3	785.7
122.5°	<i>175.5</i>	197.5	344.2	616.8	741.6
125°	<i>189.1</i>	209.7	342.2	567.8	678.9
127.5°	<i>203.9</i>	223.2	341.1	538.5	630.1
130°	<i>211.6</i>	230.9	339.5	518.1	598.0
132.5°	<i>219.7</i>	238.5	339.5	502.2	575.6
135°	<i>231.3</i>	250.6	338.1	479.6	542.2
137.5°	<i>242.2</i>	260.9	338.0	460.5	514.6
140°	<i>250.3</i>	269.6	337.4	444.7	496.6
142.5°	<i>259.6</i>	275.7	339.0	432.1	478.6
145°	<i>272.8</i>	286.8	340.8	415.1	452.4
147.5°	<i>284.1</i>	297.6	343.8	398.0	430.2
150°	<i>293.9</i>	303.2	344.9	392.3	415.0
152.5°	<i>301.5</i>	311.3	346.0	384.7	405.7
155°	<i>311.6</i>	318.9	349.0	375.2	390.5
157.5°	<i>324.1</i>	328.5	349.7	370.9	381.8
160°	<i>330.6</i>	333.9	352.4	367.6	376.9
162.5°	<i>334.4</i>	338.3	352.9	364.8	372.0
165°	<i>344.2</i>	345.5	353.1	360.7	366.0
167.5°	<i>350.9</i>	349.7	356.2	359.6	361.8
170°	<i>353.1</i>	352.4	355.1	355.8	358.5
172.5°	<i>358.0</i>	355.7	356.7	354.7	356.9
175°	<i>360.5</i>	358.5	357.1	355.0	352.4
177.5°	<i>361.6</i>	358.4	356.7	354.6	355.1
180°	<i>357.8</i>	357.8	357.8	357.8	357.8

(END OF REPORT)