

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: P523698

Luminaire Tested: **SQ4-PP3-050U-100D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/24/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P523698  
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 (3000K)  
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 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5993.2 lumens  
Efficiency: N/A  
Efficacy: 103.0 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

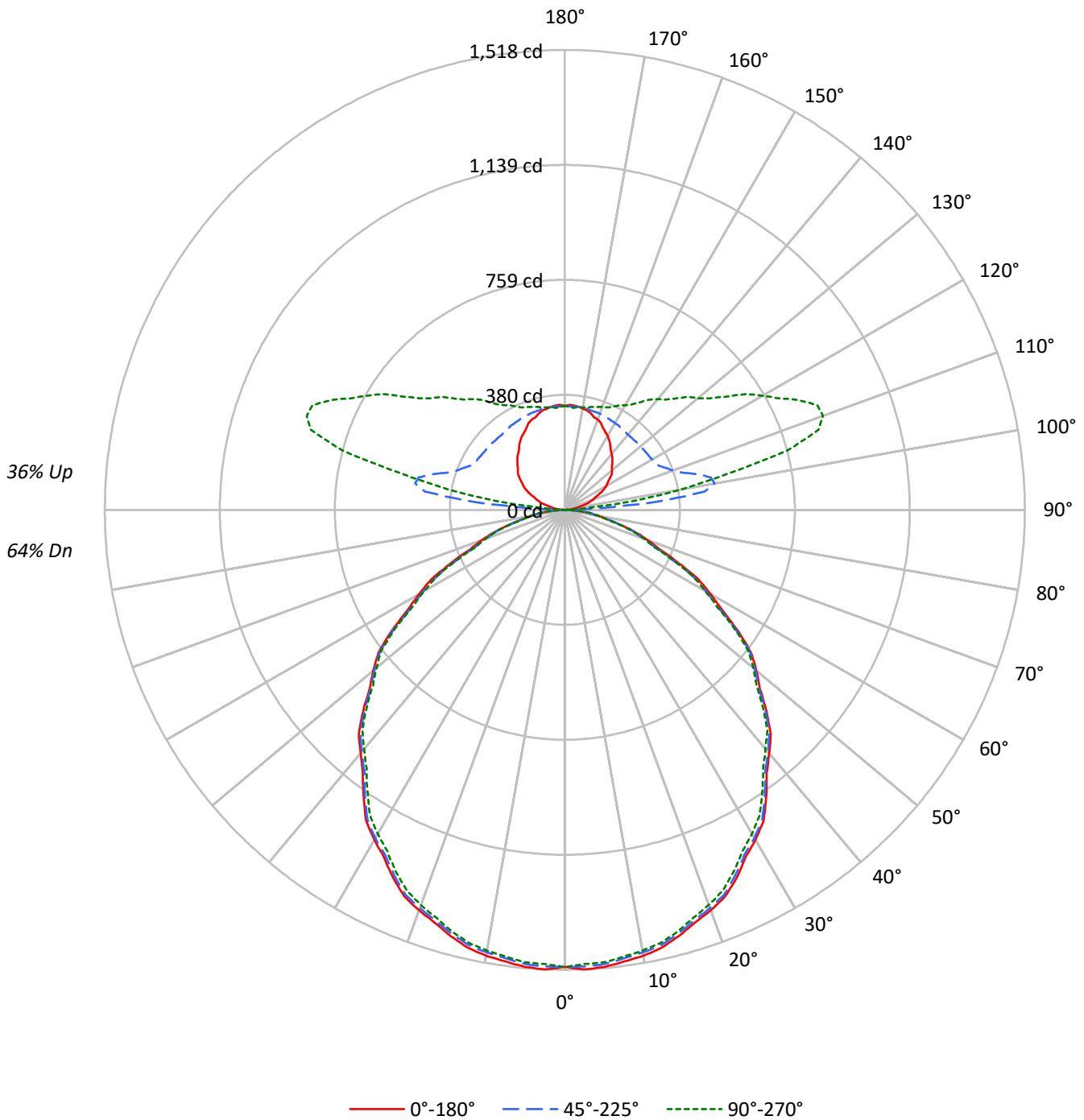
Input Watts (W): 58.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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°	13920	13920	13920
5°	14022	13937	13888
10°	13998	13899	13837
15°	13906	13830	13754
20°	13813	13736	13632
25°	13649	13556	13420
30°	13397	13326	13157
35°	13046	12957	12794
40°	12629	12550	12406
45°	12285	12198	12077
50°	11843	11767	11654
55°	11231	11081	10996
60°	10223	9931	9881
65°	9007	8632	8601
70°	7777	7456	7456
75°	6695	6598	6506
80°	5903	5972	5834
85°	4615	5039	5039



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	142.7	2.4
10°-20°	407.4	6.8
20°-30°	610.2	10.2
30°-40°	715.7	11.9
40°-50°	717.9	12.0
50°-60°	612.5	10.2
60°-70°	399.4	6.7
70°-80°	200.4	3.3
80°-90°	55.5	0.9
90°-100°	156.4	2.6
100°-110°	444.9	7.4
110°-120°	426.3	7.1
120°-130°	337.4	5.6
130°-140°	270.8	4.5
140°-150°	212.0	3.5
150°-160°	155.1	2.6
160°-170°	96.1	1.6
170°-180°	32.6	0.5
0°-30°	1160.2	19.4
0°-40°	1875.9	31.3
0°-60°	3206.3	53.5
0°-90°	3861.6	64.4
90°-120°	1027.6	17.1
90°-150°	1847.8	30.8
90°-180°	2132.0	35.6
0°-180°	5993.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1509	1509	1509	1509	1509	
5°	1514	1500	1505	1500	1500	144
15°	1456	1442	1448	1443	1440	411
25°	1341	1325	1332	1320	1318	617
35°	1158	1147	1150	1137	1136	724
45°	942	935	935	926	926	725
55°	698	696	689	685	684	620
65°	413	405	395	393	394	412
75°	188	188	185	184	182	204
85°	44	48	48	48	48	51
90°	0	0	0	0	0	2
95°	17	67	303	105	65	19
105°	69	105	453	801	761	73
115°	128	155	344	728	855	127
125°	181	201	328	545	651	162
135°	222	240	324	460	520	171
145°	262	275	327	398	434	163
155°	299	306	335	360	374	138
165°	330	331	339	346	351	93
175°	346	344	342	340	338	33
180°	343	343	343	343	343	

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CATALOG NUMBER: SQ4-PP3-050U-100D-92765-1D-UNV-STD-W-4 (3000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1508.7	1508.7	1508.7	1508.7	1508.7
2.5°	1518.3	1505.9	1508.7	1506.5	1500.3
5°	1514.0	1499.8	1504.8	1499.5	1499.5
7.5°	1503.7	1488.2	1493.1	1487.8	1487.6
10°	1494.2	1478.7	1483.6	1478.3	1477.0
12.5°	1480.4	1464.9	1470.9	1464.6	1464.3
15°	1455.9	1441.6	1447.9	1442.6	1440.0
17.5°	1428.1	1412.6	1420.2	1412.7	1411.7
20°	1406.9	1391.4	1399.0	1388.4	1388.4
22.5°	1381.5	1366.0	1374.7	1360.9	1360.9
25°	1340.8	1325.3	1331.6	1319.6	1318.3
27.5°	1292.4	1277.2	1283.7	1270.2	1269.9
30°	1257.5	1243.3	1250.9	1236.3	1235.0
32.5°	1219.4	1206.2	1211.8	1197.2	1195.9
35°	1158.3	1146.7	1150.4	1137.2	1135.9
37.5°	1094.1	1082.2	1086.4	1075.0	1074.5
40°	1048.6	1040.8	1042.0	1032.7	1030.1
42.5°	1006.3	997.5	998.6	989.3	988.8
45°	941.5	935.0	934.9	925.6	925.6
47.5°	872.7	867.8	866.4	858.7	858.4
50°	825.1	821.2	819.8	813.2	811.9
52.5°	775.4	773.6	769.1	763.5	763.2
55°	698.2	695.6	688.9	684.9	683.6
57.5°	614.3	609.2	601.6	595.9	596.9
60°	554.0	548.9	538.2	535.5	535.5
62.5°	495.9	489.7	478.9	475.3	477.4
65°	412.6	404.8	395.4	392.8	394.0
67.5°	336.9	329.9	319.7	319.7	318.7
70°	288.3	284.4	276.4	276.4	276.4
72.5°	244.9	243.1	237.2	237.2	236.2
75°	187.8	187.8	185.1	183.8	182.5
77.5°	140.7	141.2	139.9	138.5	136.2
80°	111.1	113.7	112.4	111.0	109.8
82.5°	83.6	86.2	85.9	83.6	83.3
85°	43.6	47.5	47.6	47.6	47.6
87.5°	11.6	15.8	16.9	16.9	18.0
90°	0.0	0.0	0.0	0.0	0.0
92.5°	5.2	27.7	64.2	18.7	14.1
95°	17.0	67.4	302.7	104.8	64.6
97.5°	31.2	78.9	466.2	333.6	228.6
100°	41.1	85.8	501.7	508.2	391.4
102.5°	52.1	93.1	493.9	650.5	548.5
105°	69.2	104.9	453.4	800.9	761.3
107.5°	86.5	118.5	406.2	843.3	878.5
110°	98.5	128.5	379.0	827.1	906.2

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	<i>110.0</i>	138.4	360.8	788.7	901.5
115°	<i>128.5</i>	155.3	343.8	728.3	855.3
117.5°	<i>144.8</i>	170.0	333.8	662.4	796.8
120°	<i>157.9</i>	178.9	332.7	624.7	753.5
122.5°	<i>168.3</i>	189.4	330.1	591.6	711.2
125°	<i>181.4</i>	201.1	328.2	544.6	651.1
127.5°	<i>195.6</i>	214.1	327.1	516.5	604.2
130°	<i>202.9</i>	221.4	325.5	496.9	573.4
132.5°	<i>210.7</i>	228.7	325.5	481.6	552.1
135°	<i>221.8</i>	240.3	324.2	460.0	520.0
137.5°	<i>232.3</i>	250.2	324.1	441.7	493.5
140°	<i>240.1</i>	258.6	323.6	426.5	476.2
142.5°	<i>249.0</i>	264.4	325.2	414.4	459.0
145°	<i>261.6</i>	275.0	326.8	398.1	433.8
147.5°	<i>272.4</i>	285.5	329.7	381.7	412.6
150°	<i>281.8</i>	290.8	330.8	376.3	398.0
152.5°	<i>289.1</i>	298.6	331.8	368.9	389.1
155°	<i>298.8</i>	305.8	334.7	359.8	374.5
157.5°	<i>310.8</i>	315.0	335.3	355.7	366.1
160°	<i>317.1</i>	320.3	337.9	352.5	361.4
162.5°	<i>320.7</i>	324.4	338.5	349.8	356.7
165°	<i>330.1</i>	331.4	338.6	345.9	351.0
167.5°	<i>336.5</i>	335.4	341.6	344.9	346.9
170°	<i>338.6</i>	338.0	340.5	341.3	343.8
172.5°	<i>343.3</i>	341.1	342.1	340.2	342.2
175°	<i>345.8</i>	343.9	342.5	340.5	337.9
177.5°	<i>346.8</i>	343.7	342.1	340.0	340.5
180°	<i>343.2</i>	343.2	343.2	343.2	343.2

(END OF REPORT)