

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: P523648

Luminaire Tested: **SQ4-PP3-025U-100D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/24/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P523648  
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-PP3-025U-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 250 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: 5998.7 lumens  
Efficiency: N/A  
Efficacy: 106.4 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

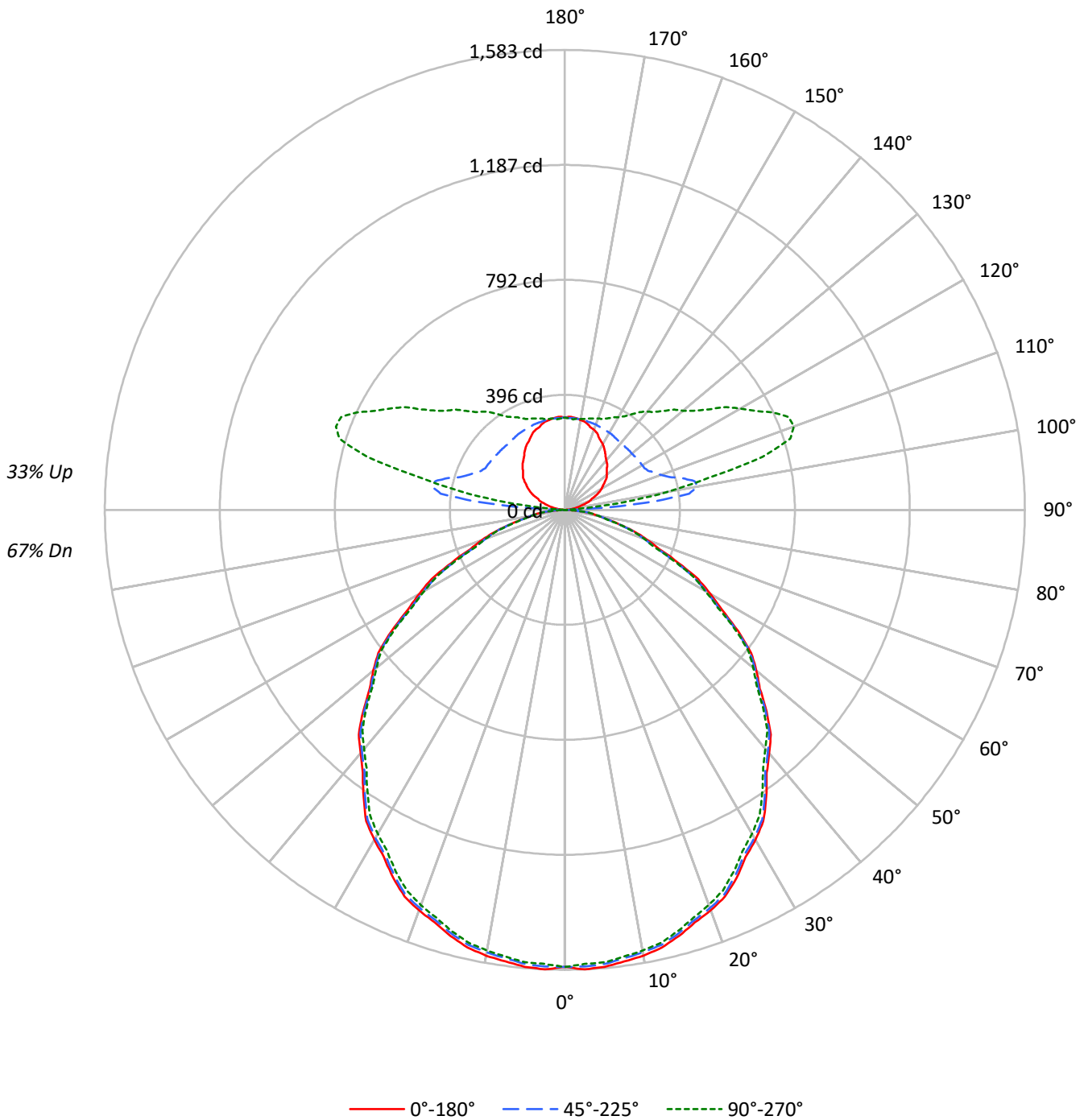
Input Watts (W): 56.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P523648

CATALOG NUMBER: SQ4-PP3-025U-100D-92765-1D-UNV-STD-W-4 (4000K)

### Luminous Intensity Polar Plot





TEST NUMBER: P523648

CATALOG NUMBER: SQ4-PP3-025U-100D-92765-1D-UNV-STD-W-4 (4000K)

**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	105	105	105	105	93	93	93	82	82	82	72	72	72	67
1	102	98	94	90	96	92	89	86	82	79	77	73	71	69	64	63	61	57
2	93	86	79	74	87	81	75	71	72	68	64	64	61	58	57	54	52	48
3	85	75	68	62	80	71	65	59	64	59	54	57	53	49	50	47	44	41
4	78	67	59	53	73	63	56	51	57	51	46	51	46	42	45	41	38	35
5	72	60	51	45	67	57	49	44	51	45	40	46	41	37	41	37	34	31
6	66	54	45	40	62	51	44	38	46	40	35	41	36	32	37	33	30	27
7	61	49	40	35	58	46	39	34	42	36	31	38	33	29	34	30	26	24
8	57	44	36	31	54	42	35	30	38	32	28	35	29	26	31	27	24	21
9	53	40	33	28	50	39	32	27	35	29	25	32	27	23	29	24	21	19
10	50	37	30	25	47	36	29	24	32	27	23	29	24	21	27	22	19	18

**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



TEST NUMBER: P523648

CATALOG NUMBER: SQ4-PP3-025U-100D-92765-1D-UNV-STD-W-4 (4000K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	148.8	2.5
10°-20°	424.8	7.1
20°-30°	636.2	10.6
30°-40°	746.3	12.4
40°-50°	748.6	12.5
50°-60°	638.6	10.6
60°-70°	416.5	6.9
70°-80°	209.0	3.5
80°-90°	57.8	1.0
90°-100°	144.7	2.4
100°-110°	411.6	6.9
110°-120°	394.4	6.6
120°-130°	312.1	5.2
130°-140°	250.5	4.2
140°-150°	196.1	3.3
150°-160°	143.5	2.4
160°-170°	88.9	1.5
170°-180°	30.2	0.5
0°-30°	1209.8	20.2
0°-40°	1956.0	32.6
0°-60°	3343.3	55.7
0°-90°	4026.5	67.1
90°-120°	950.7	15.8
90°-150°	1709.6	28.5
90°-180°	1972.0	32.9
0°-180°	5998.7	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°	16	62	280	97	60	18
105°	64	97	420	741	704	68
115°	119	144	318	674	791	117
125°	168	186	304	504	602	150
135°	205	222	300	426	481	158
145°	242	254	302	368	401	151
155°	276	283	310	333	346	128
165°	305	307	313	320	325	86
175°	320	318	317	315	313	30
180°	318	318	318	318	318	



TEST NUMBER: P523648

CATALOG NUMBER: SQ4-PP3-025U-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°	4.8	25.6	59.4	17.3	13.0
95°	15.7	62.3	280.1	96.9	59.8
97.5°	28.9	73.0	431.3	308.6	211.5
100°	38.0	79.3	464.2	470.2	362.2
102.5°	48.2	86.2	456.9	601.8	507.5
105°	64.0	97.0	419.5	741.0	704.4
107.5°	80.0	109.7	375.8	780.2	812.8
110°	91.1	118.9	350.7	765.2	838.4

TEST NUMBER: P523648

CATALOG NUMBER: SQ4-PP3-025U-100D-92765-1D-UNV-STD-W-4 (4000K)

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	101.8	128.1	333.8	729.7	834.1
115°	118.9	143.7	318.1	673.9	791.3
117.5°	134.0	157.3	308.8	612.8	737.2
120°	146.1	165.5	307.8	577.9	697.2
122.5°	155.7	175.2	305.4	547.3	658.0
125°	167.8	186.1	303.6	503.8	602.4
127.5°	181.0	198.1	302.6	477.8	559.1
130°	187.7	204.8	301.2	459.7	530.6
132.5°	195.0	211.6	301.2	445.6	510.8
135°	205.2	222.3	300.0	425.6	481.1
137.5°	214.9	231.5	299.9	408.6	456.6
140°	222.1	239.2	299.4	394.6	440.6
142.5°	230.3	244.6	300.8	383.4	424.7
145°	242.0	254.4	302.4	368.3	401.4
147.5°	252.1	264.1	305.1	353.2	381.7
150°	260.8	269.0	306.0	348.1	368.2
152.5°	267.5	276.2	307.0	341.3	360.0
155°	276.4	282.9	309.6	332.9	346.5
157.5°	287.6	291.4	310.2	329.1	338.7
160°	293.3	296.3	312.7	326.1	334.4
162.5°	296.7	300.2	313.1	323.7	330.0
165°	305.4	306.6	313.3	320.0	324.7
167.5°	311.3	310.3	316.0	319.1	321.0
170°	313.3	312.7	315.1	315.7	318.1
172.5°	317.6	315.6	316.5	314.8	316.6
175°	319.9	318.1	316.9	315.0	312.7
177.5°	320.9	318.0	316.5	314.6	315.1
180°	317.5	317.5	317.5	317.5	317.5

(END OF REPORT)