

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

Brand: CORELITE

Report Number:

Luminaire Tested: SQ4-PP3-025U-100D-927-1D-UNV-STD-W-4

Issue Date: 8/1/2024

Test Information

Test Method: LM-79-2019
Report Number:
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32)
Test Lab: INNOVATION CENTER
Issue Date: 8/1/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-PP3-025U-100D-927-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

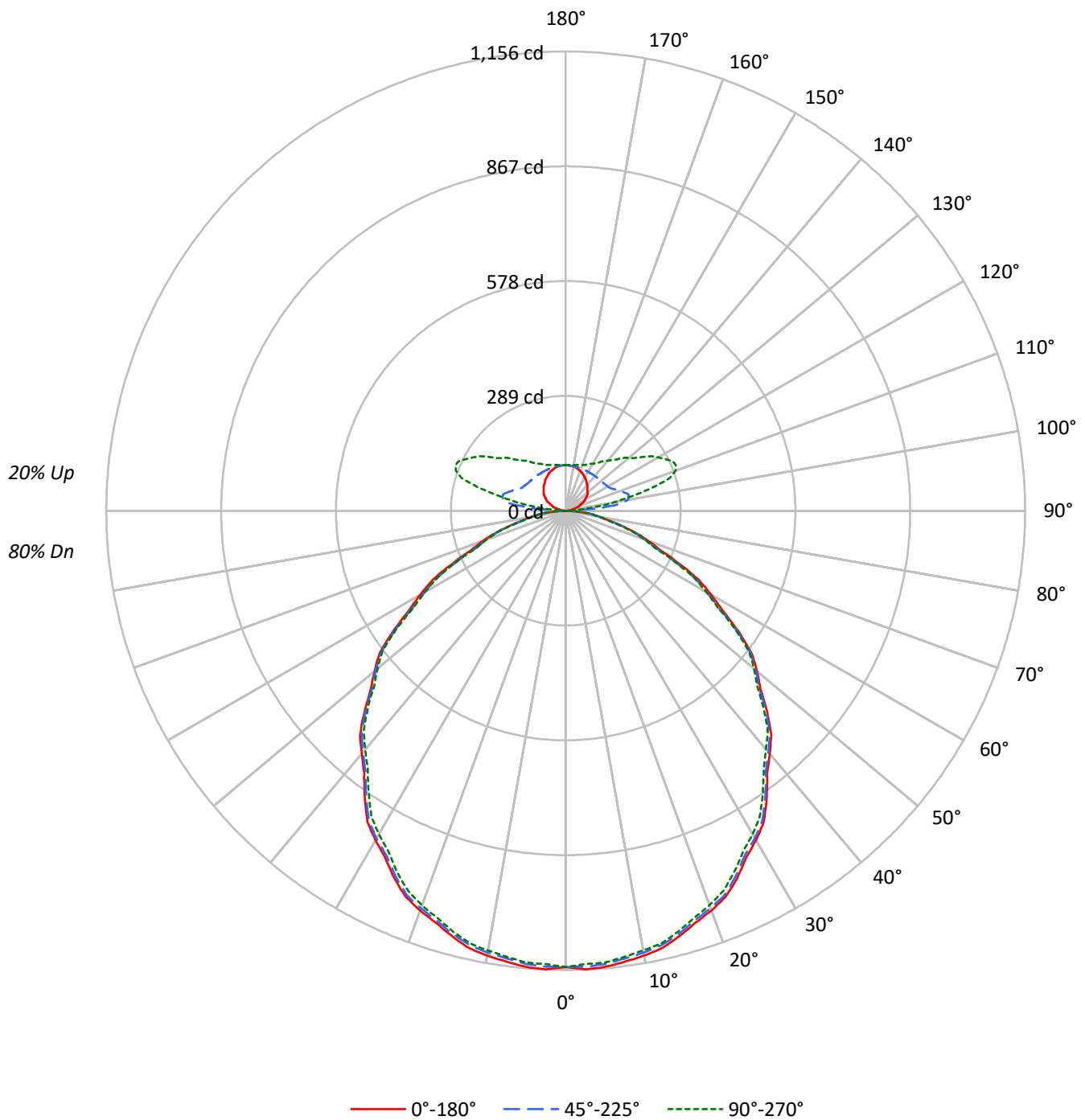
Lumens per Lamp: N/A
Luminaire Lumens: 3684.0 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 38.7
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:

CATALOG NUMBER: SQ4-PP3-025U-100D-927-1D-UNV-STD-W-4

Luminous Intensity Polar Plot



TEST NUMBER:

CATALOG NUMBER: SQ4-PP3-025U-100D-927-1D-UNV-STD-W-4

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	114	114	114	114	109	109	109	109	100	100	100	91	91	91	83	83	83
1	105	100	96	93	100	96	93	90	88	86	83	81	79	77	74	73	71
2	96	88	82	76	91	85	79	74	78	73	69	72	68	65	66	63	60
3	88	78	70	64	83	75	68	62	69	63	59	64	59	55	59	55	52
4	80	69	61	55	76	66	59	53	61	55	50	57	52	47	52	48	45
5	74	62	53	47	70	59	52	46	55	49	44	51	46	41	47	43	39
6	68	56	47	41	65	54	46	40	50	43	38	46	41	36	43	38	35
7	63	50	42	36	60	49	41	35	45	39	34	42	37	32	39	34	31
8	59	46	38	32	56	44	37	32	41	35	30	39	33	29	36	31	28
9	55	42	34	29	52	41	33	28	38	32	27	36	30	26	33	29	25
10	51	39	31	26	49	38	30	26	35	29	25	33	28	24	31	26	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10596	10596	10596
5°	10675	10609	10572
10°	10657	10581	10534
15°	10586	10528	10471
20°	10515	10457	10377
25°	10391	10318	10217
30°	10199	10144	10016
35°	9932	9863	9739
40°	9613	9553	9444
45°	9351	9286	9193
50°	9015	8958	8872
55°	8549	8435	8371
60°	7783	7560	7523
65°	6857	6571	6549
70°	5918	5676	5676
75°	5094	5023	4951
80°	4495	4548	4436
85°	3515	3832	3832

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9351 cd/sqm

TEST NUMBER:

CATALOG NUMBER: SQ4-PP3-025U-100D-927-1D-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.6	2.9
10°-20°	310.1	8.4
20°-30°	464.5	12.6
30°-40°	544.8	14.8
40°-50°	546.5	14.8
50°-60°	466.2	12.7
60°-70°	304.1	8.3
70°-80°	152.5	4.1
80°-90°	42.8	1.2
90°-100°	55.9	1.5
100°-110°	147.0	4.0
110°-120°	152.5	4.1
120°-130°	122.3	3.3
130°-140°	95.9	2.6
140°-150°	73.6	2.0
150°-160°	53.0	1.4
160°-170°	32.5	0.9
170°-180°	11.0	0.3
0°-30°	883.2	24.0
0°-40°	1428.0	38.8
0°-60°	2440.8	66.3
0°-90°	2940.2	79.8
90°-120°	355.4	9.6
90°-150°	647.3	17.6
90°-180°	744.0	20.2
0°-180°	3684.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1148	1148	1148	1148	1148	
5°	1153	1142	1146	1142	1142	109
15°	1108	1097	1102	1098	1096	313
25°	1021	1009	1014	1005	1004	469
35°	882	873	876	866	865	551
45°	717	712	712	705	705	552
55°	532	530	524	521	520	472
65°	314	308	301	299	300	313
75°	143	143	141	140	139	155
85°	33	36	36	36	36	39
90°	1	2	6	3	3	2
95°	7	29	96	50	34	8
105°	26	40	163	247	230	28
115°	47	57	130	260	296	46
125°	66	73	118	200	236	58
135°	78	86	115	162	183	60
145°	90	96	113	138	149	57
155°	102	105	113	124	128	47
165°	110	112	113	118	119	31
175°	115	115	114	116	116	11
180°	115	115	115	115	115	

TEST NUMBER:

CATALOG NUMBER: SQ4-PP3-025U-100D-927-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1148.5	1148.5	1148.5	1148.5	1148.5
2.5°	1155.8	1146.3	1148.5	1146.8	1142.1
5°	1152.6	1141.7	1145.5	1141.5	1141.5
7.5°	1144.7	1132.9	1136.7	1132.6	1132.4
10°	1137.5	1125.6	1129.4	1125.4	1124.4
12.5°	1127.0	1115.2	1119.7	1114.9	1114.7
15°	1108.3	1097.4	1102.2	1098.2	1096.2
17.5°	1087.1	1075.3	1081.1	1075.4	1074.6
20°	1071.0	1059.2	1065.0	1056.9	1056.9
22.5°	1051.7	1039.9	1046.5	1036.0	1036.0
25°	1020.7	1008.9	1013.6	1004.6	1003.6
27.5°	983.9	972.2	977.2	966.9	966.7
30°	957.3	946.5	952.2	941.1	940.2
32.5°	928.3	918.2	922.4	911.4	910.4
35°	881.8	872.9	875.7	865.7	864.7
37.5°	832.9	823.8	827.0	818.4	818.0
40°	798.2	792.3	793.2	786.1	784.1
42.5°	766.0	759.3	760.2	753.1	752.7
45°	716.7	711.8	711.7	704.6	704.6
47.5°	664.4	660.6	659.5	653.7	653.5
50°	628.1	625.2	624.1	619.0	618.1
52.5°	590.3	588.9	585.4	581.2	581.0
55°	531.5	529.5	524.4	521.4	520.4
57.5°	467.7	463.7	458.0	453.6	454.4
60°	421.8	417.8	409.7	407.7	407.7
62.5°	377.5	372.8	364.6	361.8	363.4
65°	314.1	308.2	301.0	299.0	300.0
67.5°	256.5	251.2	243.4	243.4	242.6
70°	219.4	216.5	210.4	210.4	210.4
72.5°	186.4	185.0	180.6	180.6	179.8
75°	142.9	142.9	140.9	139.9	138.9
77.5°	107.1	107.5	106.5	105.5	103.7
80°	84.6	86.5	85.6	84.5	83.5
82.5°	63.6	65.6	65.4	63.6	63.4
85°	33.2	36.2	36.2	36.2	36.2
87.5°	9.0	12.4	14.1	13.5	14.3
90°	0.7	2.2	5.9	2.9	2.9
92.5°	3.1	14.9	33.0	14.6	9.4
95°	7.4	28.9	96.4	49.7	33.8
97.5°	12.8	31.8	144.2	114.7	84.4
100°	16.9	34.2	158.9	161.0	125.0
102.5°	20.4	36.6	163.0	200.6	169.8
105°	26.5	40.1	162.6	246.8	230.2
107.5°	32.7	45.3	153.3	270.8	274.8
110°	36.8	48.3	145.6	277.0	294.2

TEST NUMBER:

CATALOG NUMBER: SQ4-PP3-025U-100D-927-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	40.9	51.8	138.6	273.1	299.5
115°	47.1	57.1	130.2	259.8	296.4
117.5°	53.1	62.3	124.5	241.3	282.0
120°	56.6	65.3	122.1	228.9	268.5
122.5°	60.2	68.8	120.3	216.6	255.5
125°	65.5	73.4	118.4	200.2	236.1
127.5°	69.7	77.8	116.8	186.9	217.3
130°	72.1	80.7	116.2	178.6	206.7
132.5°	74.4	83.1	115.6	171.5	196.7
135°	78.0	85.9	114.7	161.6	183.2
137.5°	81.6	89.4	114.6	154.1	171.8
140°	84.6	91.8	114.0	148.2	164.8
142.5°	86.9	93.6	114.0	144.1	158.3
145°	90.5	96.2	113.3	137.8	148.6
147.5°	94.0	99.6	113.3	132.6	141.5
150°	96.4	101.4	113.3	129.6	136.8
152.5°	98.7	102.6	113.3	127.2	132.7
155°	102.2	105.1	113.3	124.4	128.0
157.5°	104.9	107.6	113.3	121.9	124.5
160°	106.7	108.8	113.3	120.7	122.1
162.5°	108.4	110.0	113.3	119.5	120.9
165°	110.3	111.8	113.3	117.7	119.2
167.5°	112.1	112.8	114.0	117.0	117.5
170°	113.3	114.0	114.0	117.0	117.0
172.5°	113.9	114.0	114.0	116.4	115.8
175°	114.7	114.7	114.0	115.5	115.5
177.5°	114.7	114.7	114.2	115.3	114.7
180°	114.7	114.7	114.7	114.7	114.7

(END OF REPORT)