

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-075D-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-075D-927-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

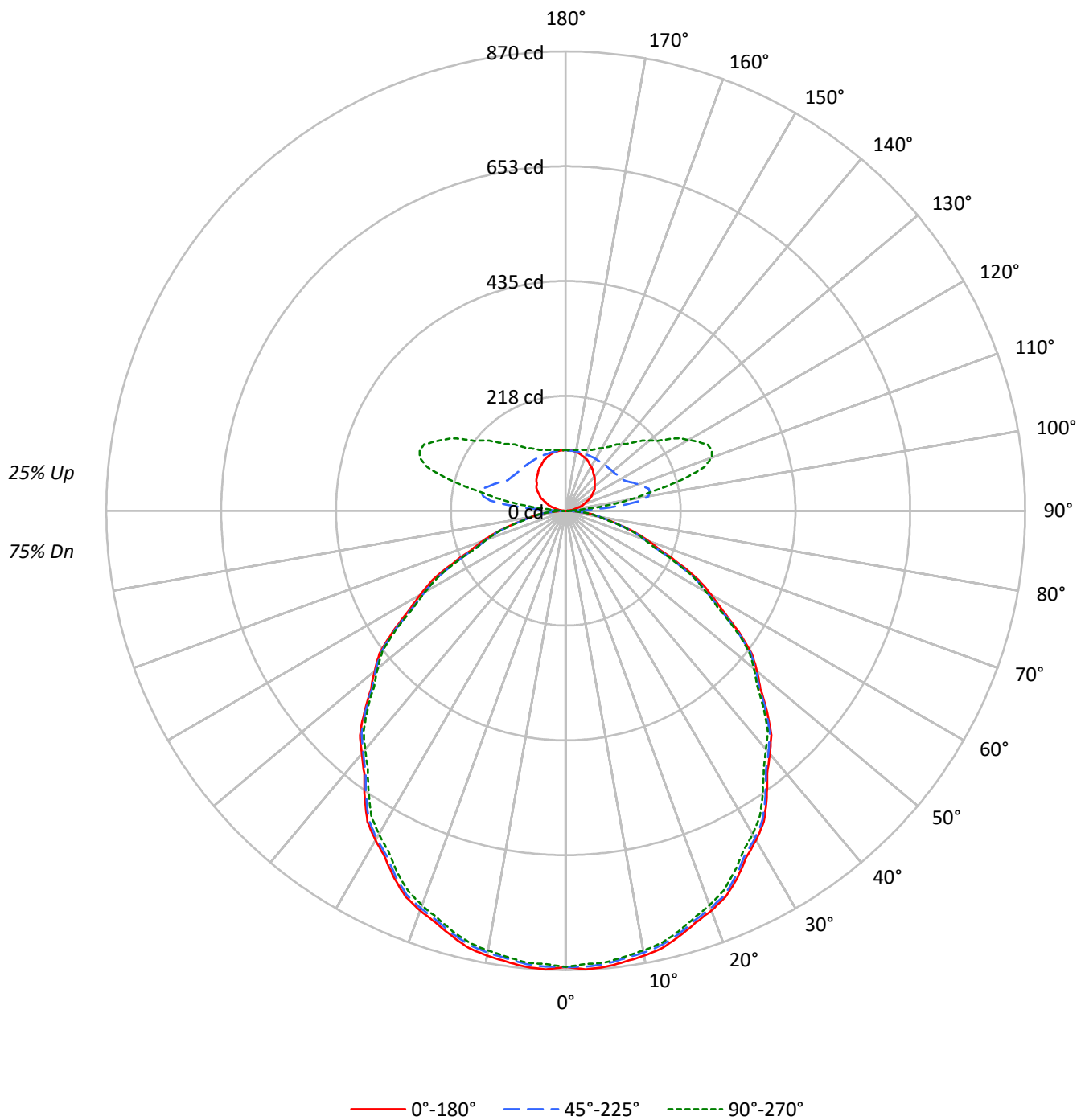
Lumens per Lamp: N/A
Luminaire Lumens: 2956.8 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 29.9
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				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	113	113	113	113	108	108	108	108	97	97	97	88	88	88	79	79	79
1	104	99	95	92	98	95	91	88	86	83	81	78	76	74	70	69	67
2	95	87	81	76	90	83	77	73	76	71	67	69	65	62	62	60	57
3	87	77	69	63	82	73	67	61	67	61	57	61	57	53	55	52	49
4	79	68	60	54	75	65	58	52	60	54	49	54	49	45	50	46	42
5	73	61	53	46	69	58	51	45	54	47	42	49	44	40	45	40	37
6	67	55	46	40	64	53	45	39	48	42	37	44	39	35	41	36	33
7	62	50	41	36	59	48	40	35	44	37	33	40	35	31	37	33	29
8	58	45	37	32	55	44	36	31	40	34	29	37	32	28	34	29	26
9	54	41	34	28	51	40	33	28	37	31	26	34	29	25	32	27	24
10	51	38	31	26	48	37	30	25	34	28	24	32	26	23	29	25	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7975	7975	7975
5°	8033	7984	7957
10°	8020	7963	7928
15°	7967	7924	7880
20°	7915	7869	7810
25°	7820	7766	7689
30°	7676	7635	7538
35°	7474	7424	7330
40°	7236	7190	7108
45°	7038	6988	6919
50°	6785	6742	6677
55°	6434	6349	6301
60°	5857	5689	5661
65°	5161	4945	4929
70°	4456	4270	4270
75°	3836	3782	3725
80°	3379	3422	3342
85°	2646	2890	2890

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7038 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.7	2.8
10°-20°	233.4	7.9
20°-30°	349.6	11.8
30°-40°	410.0	13.9
40°-50°	411.3	13.9
50°-60°	350.9	11.9
60°-70°	228.8	7.7
70°-80°	114.8	3.9
80°-90°	32.4	1.1
90°-100°	55.9	1.9
100°-110°	147.0	5.0
110°-120°	152.5	5.2
120°-130°	122.3	4.1
130°-140°	95.9	3.2
140°-150°	73.6	2.5
150°-160°	53.0	1.8
160°-170°	32.5	1.1
170°-180°	11.0	0.4
0°-30°	664.7	22.5
0°-40°	1074.7	36.3
0°-60°	1837.0	62.1
0°-90°	2213.0	74.8
90°-120°	355.4	12.0
90°-150°	647.3	21.9
90°-180°	744.0	25.2
0°-180°	2956.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	864	864	864	864	864	
5°	867	859	862	859	859	82
15°	834	826	830	826	825	235
25°	768	759	763	756	755	353
35°	664	657	659	652	651	415
45°	539	536	536	530	530	415
55°	400	398	395	392	392	355
65°	236	232	226	225	226	236
75°	108	108	106	105	104	117
85°	25	27	27	27	27	29
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	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	864.4	864.4	864.4	864.4	864.4
2.5°	869.9	862.7	864.4	863.1	859.6
5°	867.4	859.3	862.1	859.1	859.1
7.5°	861.5	852.6	855.5	852.4	852.3
10°	856.1	847.2	850.0	847.0	846.2
12.5°	848.2	839.3	842.7	839.1	838.9
15°	834.1	825.9	829.6	826.5	825.0
17.5°	818.2	809.3	813.6	809.4	808.8
20°	806.1	797.2	801.5	795.5	795.5
22.5°	791.5	782.6	787.6	779.7	779.7
25°	768.2	759.3	762.9	756.0	755.3
27.5°	740.5	731.7	735.5	727.7	727.6
30°	720.5	712.3	716.7	708.3	707.6
32.5°	698.6	691.1	694.2	685.9	685.2
35°	663.6	657.0	659.1	651.5	650.8
37.5°	626.8	620.0	622.4	615.9	615.6
40°	600.8	596.3	597.0	591.6	590.2
42.5°	576.5	571.5	572.1	566.8	566.5
45°	539.4	535.7	535.6	530.3	530.3
47.5°	500.0	497.2	496.4	492.0	491.8
50°	472.7	470.5	469.7	465.9	465.2
52.5°	444.2	443.2	440.6	437.4	437.3
55°	400.0	398.5	394.7	392.4	391.7
57.5°	352.0	349.0	344.7	341.4	342.0
60°	317.4	314.5	308.3	306.8	306.8
62.5°	284.1	280.5	274.4	272.3	273.5
65°	236.4	231.9	226.5	225.0	225.8
67.5°	193.0	189.0	183.2	183.2	182.6
70°	165.2	162.9	158.3	158.3	158.3
72.5°	140.3	139.3	135.9	135.9	135.3
75°	107.6	107.6	106.1	105.3	104.5
77.5°	80.6	80.9	80.2	79.4	78.0
80°	63.6	65.1	64.4	63.6	62.9
82.5°	47.9	49.4	49.2	47.9	47.7
85°	25.0	27.2	27.3	27.3	27.3
87.5°	6.8	9.5	10.9	10.3	10.9
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

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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)