

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-PP3-100U-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 (G3-1910-536-23)
Test Lab: INNOVATION CENTER
Issue Date: 8/1/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-PP3-100U-075D-927-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

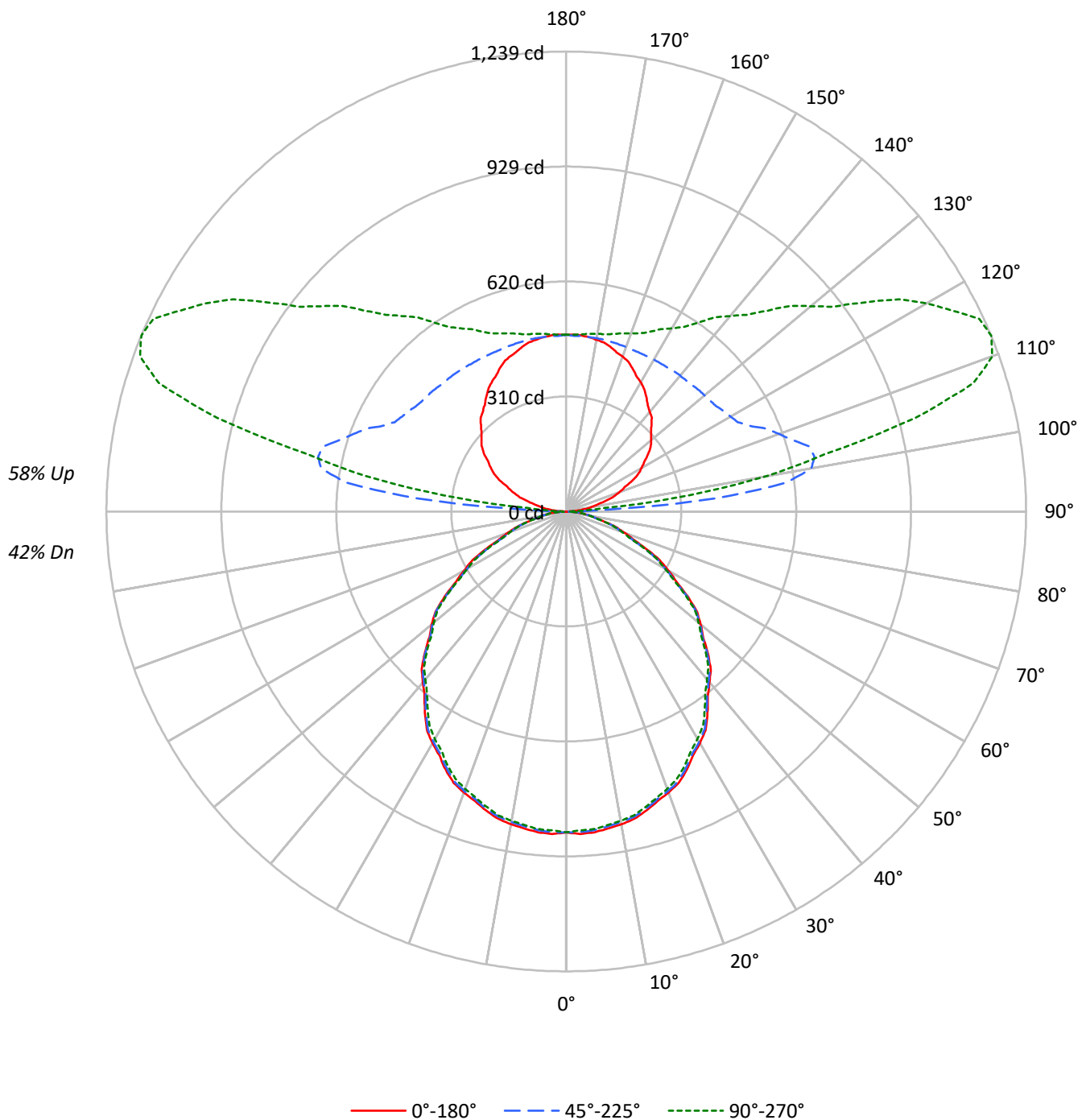
Lumens per Lamp: N/A
Luminaire Lumens: 5305.9 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 49.1
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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	105	105	105	105	96	96	96	96	79	79	79	63	63	63	49	49	49
1	96	92	88	85	88	84	81	78	69	67	65	56	54	53	43	42	41
2	88	80	74	69	80	74	68	64	61	57	54	49	46	44	38	36	35
3	80	71	64	58	73	65	59	54	54	49	45	43	40	38	34	32	30
4	73	63	55	49	67	57	51	46	48	43	39	39	35	32	30	28	26
5	67	56	48	42	61	51	44	39	43	37	33	35	31	28	27	25	23
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	25	22	20
7	57	45	37	32	52	42	35	30	35	29	26	29	25	22	23	20	18
8	53	41	33	28	48	38	31	26	32	26	23	26	22	19	21	18	16
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14
10	46	34	27	22	42	32	25	21	27	22	18	22	18	16	18	15	13

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	1.5
10°-20°	233.4	4.4
20°-30°	349.6	6.6
30°-40°	410.0	7.7
40°-50°	411.3	7.8
50°-60°	350.9	6.6
60°-70°	228.8	4.3
70°-80°	114.8	2.2
80°-90°	32.8	0.6
90°-100°	222.9	4.2
100°-110°	615.3	11.6
110°-120°	634.6	12.0
120°-130°	510.0	9.6
130°-140°	400.8	7.6
140°-150°	307.4	5.8
150°-160°	220.9	4.2
160°-170°	135.1	2.5
170°-180°	45.5	0.9
0°-30°	664.7	12.5
0°-40°	1074.7	20.3
0°-60°	1837.0	34.6
0°-90°	2213.4	41.7
90°-120°	1472.8	27.8
90°-150°	2691.0	50.7
90°-180°	3093.0	58.3
0°-180°	5305.9	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°	2	3	6	7	8	3
95°	33	121	404	166	108	35
105°	110	169	677	1034	973	117
115°	196	237	545	1079	1228	193
125°	270	307	494	836	982	240
135°	324	359	480	677	764	251
145°	376	402	474	577	621	236
155°	424	438	471	518	534	195
165°	459	465	473	491	495	129
175°	476	477	474	480	479	45
180°	476	476	476	476	476	

TEST NUMBER:

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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°	7.0	9.6	10.9	11.1	11.8
90°	1.5	3.0	6.1	6.9	7.6
92.5°	13.7	56.9	101.7	37.1	28.9
95°	32.7	120.6	404.4	166.2	108.1
97.5°	54.2	135.1	599.0	461.2	334.0
100°	70.1	143.8	670.9	675.7	549.1
102.5°	85.3	153.6	684.9	834.8	714.8
105°	109.7	169.2	677.0	1033.6	973.2
107.5°	135.6	188.6	639.2	1129.4	1151.4
110°	153.8	201.5	610.0	1150.0	1221.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	170.3	216.1	582.6	1133.7	1239.2
115°	196.5	237.4	545.3	1079.4	1227.6
117.5°	219.3	260.1	520.7	1003.0	1171.6
120°	234.6	274.8	511.0	951.2	1121.0
122.5°	249.2	287.6	503.1	902.9	1063.7
125°	269.6	306.8	494.2	836.4	981.6
127.5°	286.9	324.2	489.1	780.2	905.5
130°	298.5	335.8	486.6	745.9	859.8
132.5°	309.5	344.9	484.2	717.0	820.2
135°	324.4	359.4	480.5	677.4	763.8
137.5°	341.2	373.0	478.7	644.3	718.0
140°	350.3	381.6	477.5	622.1	686.9
142.5°	360.7	389.6	476.3	602.5	659.5
145°	376.2	402.3	474.4	576.7	620.7
147.5°	391.1	413.9	472.8	555.0	589.1
150°	402.1	420.7	472.2	542.1	569.6
152.5°	410.6	428.0	471.5	531.0	553.8
155°	424.2	438.3	470.6	517.5	533.8
157.5°	436.7	447.5	470.8	507.6	518.8
160°	444.0	453.7	471.4	502.0	510.2
162.5°	450.1	458.6	472.0	497.1	503.5
165°	459.2	465.2	472.9	491.3	495.0
167.5°	466.2	469.8	473.7	487.7	488.9
170°	469.9	472.8	473.7	485.9	485.9
172.5°	472.9	474.7	473.7	483.4	482.8
175°	476.0	476.7	473.7	480.5	479.0
177.5°	477.2	476.6	473.5	477.8	476.6
180°	476.0	476.0	476.0	476.0	476.0

(END OF REPORT)