

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-PP3-075U-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 (G3-1910-536-22)
Test Lab: INNOVATION CENTER
Issue Date: 8/1/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-PP3-075U-075D-927-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

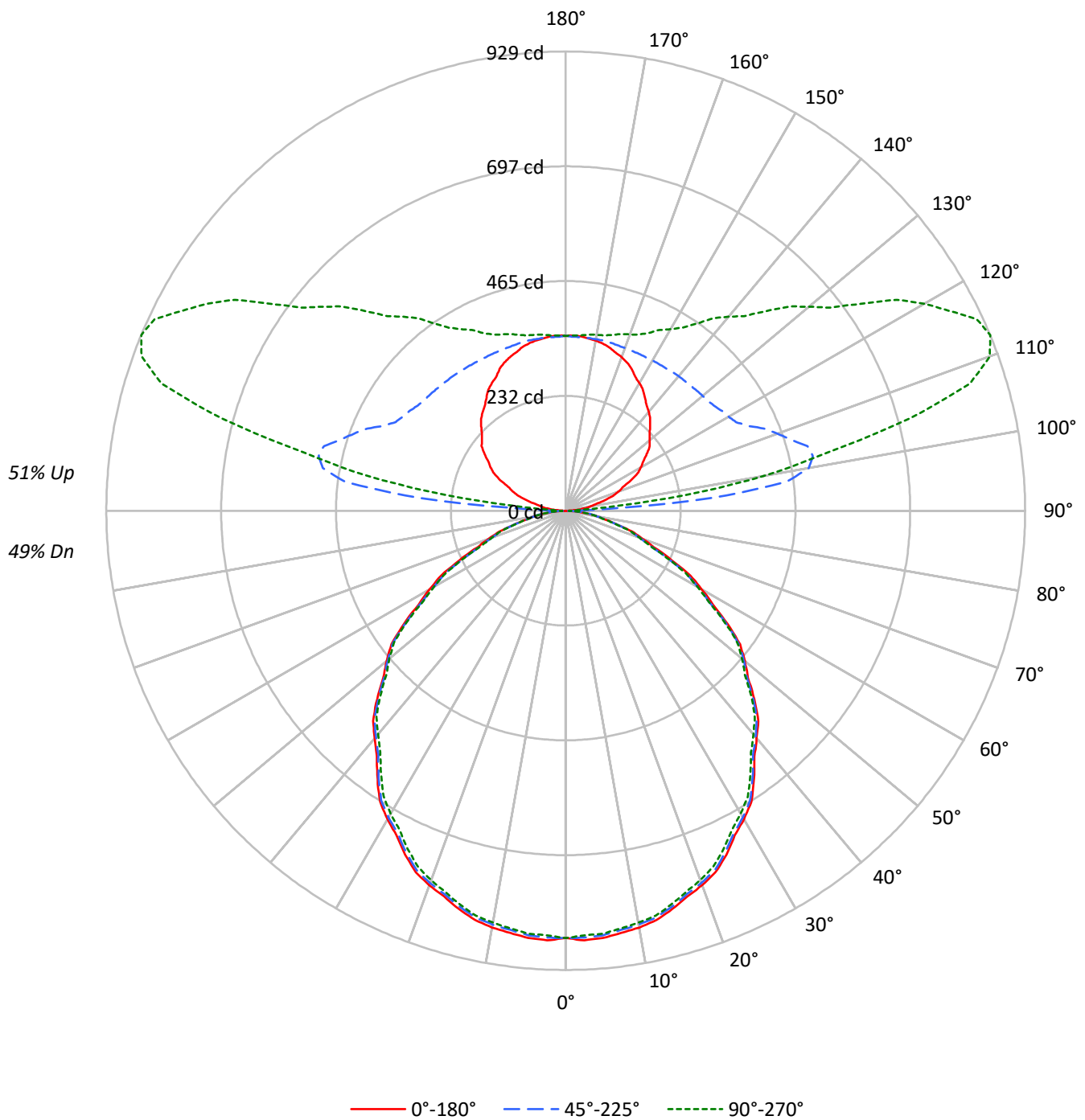
Lumens per Lamp: N/A
Luminaire Lumens: 4518.5 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 42.5
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	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55
1	98	94	90	86	90	86	83	80	73	71	68	61	59	57	49	48	47
2	89	82	76	71	82	76	70	66	64	60	57	53	51	48	43	42	40
3	81	72	65	59	75	67	60	55	57	52	48	47	44	41	39	36	34
4	75	64	56	50	68	59	52	47	50	45	41	42	38	35	35	32	29
5	68	57	49	43	63	53	46	40	45	40	35	38	34	30	31	28	26
6	63	51	43	37	58	47	40	35	41	35	31	34	30	27	28	25	23
7	58	46	38	33	54	43	36	31	37	31	27	31	27	24	26	23	20
8	54	42	34	29	50	39	32	27	34	28	24	28	24	21	24	20	18
9	50	38	31	26	46	36	29	24	31	25	22	26	22	19	22	19	16
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15

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	1.8
10°-20°	233.4	5.2
20°-30°	349.6	7.7
30°-40°	410.0	9.1
40°-50°	411.3	9.1
50°-60°	350.9	7.8
60°-70°	228.8	5.1
70°-80°	114.8	2.5
80°-90°	32.7	0.7
90°-100°	166.9	3.7
100°-110°	459.2	10.2
110°-120°	473.9	10.5
120°-130°	379.7	8.4
130°-140°	298.2	6.6
140°-150°	228.6	5.1
150°-160°	164.3	3.6
160°-170°	100.5	2.2
170°-180°	33.9	0.7
0°-30°	664.7	14.7
0°-40°	1074.7	23.8
0°-60°	1837.0	40.7
0°-90°	2213.3	49.0
90°-120°	1100.0	24.3
90°-150°	2006.5	44.4
90°-180°	2305.0	51.0
0°-180°	4518.5	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	3	5	7	7	3
95°	25	91	295	126	81	26
105°	82	126	506	770	719	87
115°	145	177	406	808	917	143
125°	200	228	368	623	730	179
135°	242	268	358	504	570	186
145°	279	298	352	429	462	175
155°	316	326	350	386	397	145
165°	342	346	352	366	368	96
175°	354	355	352	357	356	34
180°	354	354	354	354	354	

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°	6.8	9.6	10.8	11.1	11.7
90°	0.8	3.0	5.3	6.8	6.8
92.5°	10.4	44.4	76.9	29.5	24.2
95°	24.8	91.1	295.1	126.2	80.6
97.5°	40.5	101.0	450.4	347.0	244.8
100°	51.9	107.2	499.2	503.8	411.1
102.5°	62.8	114.5	511.8	625.1	540.0
105°	82.1	126.2	505.9	770.5	719.0
107.5°	100.4	140.8	477.2	841.8	857.1
110°	113.7	150.5	455.5	859.5	912.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	125.7	161.4	433.8	848.1	928.8
115°	145.3	177.0	405.8	808.1	917.0
117.5°	164.0	193.1	388.0	751.9	875.1
120°	175.4	203.4	380.2	709.8	837.2
122.5°	185.7	213.6	374.8	673.0	793.8
125°	200.3	228.2	368.2	622.8	729.5
127.5°	214.1	240.8	363.8	580.9	674.6
130°	221.3	248.6	361.4	556.1	641.5
132.5°	229.8	257.0	359.6	534.2	611.3
135°	241.7	268.2	357.6	503.7	569.9
137.5°	252.8	277.4	356.0	479.0	533.6
140°	261.2	284.1	355.4	462.6	512.0
142.5°	268.5	289.5	354.2	448.0	490.3
145°	279.3	298.5	352.3	429.1	462.3
147.5°	290.9	307.4	351.4	412.4	438.9
150°	298.1	312.9	350.8	403.3	423.9
152.5°	304.8	318.3	350.2	395.3	412.4
155°	316.2	326.5	350.1	385.7	396.8
157.5°	324.5	332.9	350.1	377.8	385.5
160°	330.5	337.1	350.1	373.6	379.5
162.5°	335.3	340.8	350.7	369.9	374.6
165°	341.8	346.2	351.6	365.9	368.2
167.5°	346.3	349.7	352.3	362.6	363.2
170°	349.3	351.5	352.3	361.4	361.4
172.5°	351.7	352.8	352.3	359.6	359.0
175°	353.9	354.6	352.3	356.8	356.1
177.5°	354.5	354.5	352.0	355.6	354.5
180°	353.9	353.9	353.9	353.9	353.9

(END OF REPORT)