

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-PC3-075U-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-PC3-075U-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

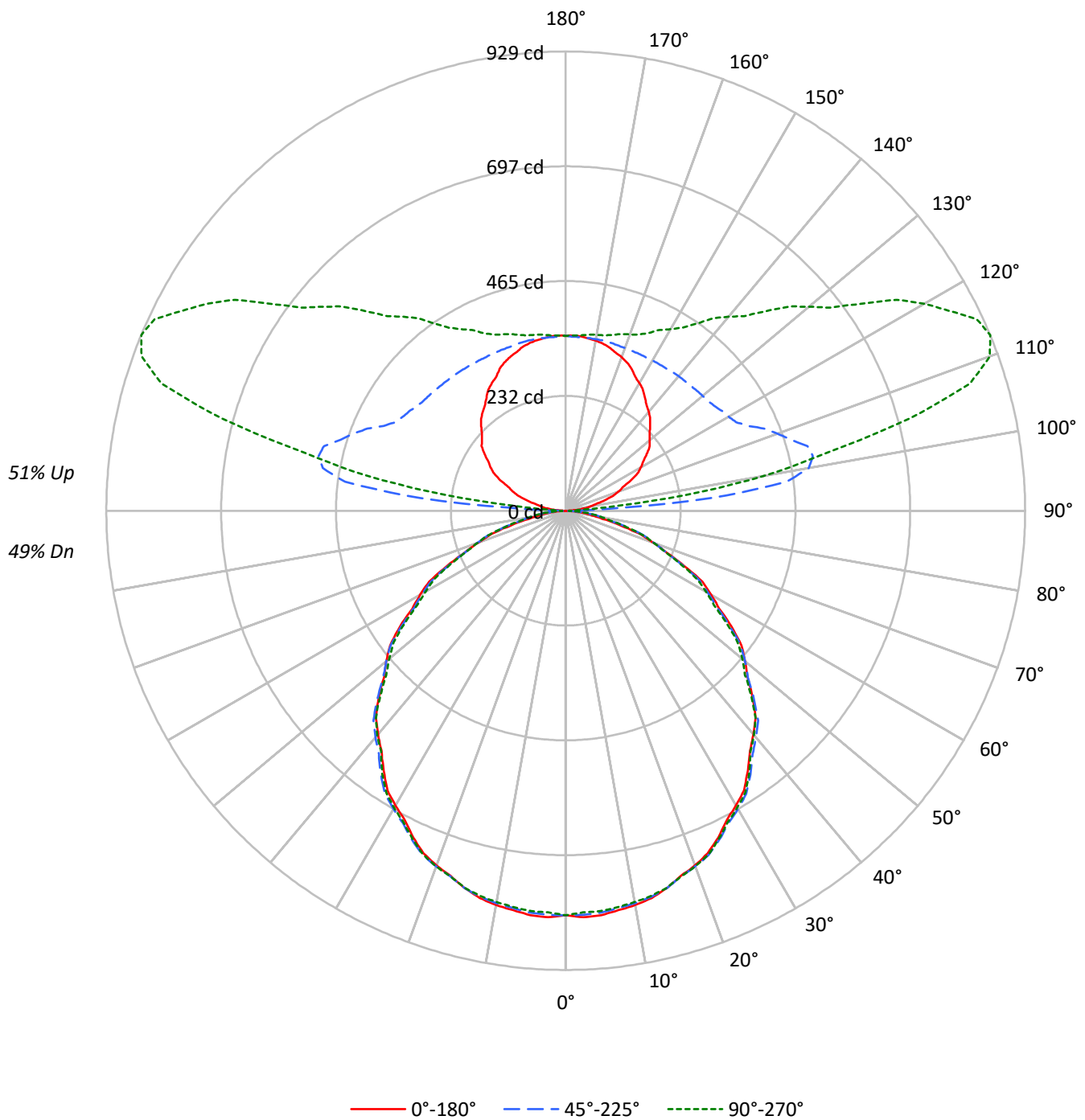
Lumens per Lamp: N/A
Luminaire Lumens: 4539.1 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

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				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	55	55	55
1	98	93	90	86	90	86	83	80	73	70	68	60	59	57	49	48	47
2	89	82	75	70	82	75	70	66	64	60	56	53	50	48	43	41	40
3	81	72	64	58	74	66	60	55	56	51	47	47	43	40	38	36	34
4	74	63	55	49	68	59	52	46	50	45	40	42	38	35	34	31	29
5	68	56	48	42	62	52	45	40	45	39	35	37	33	30	31	28	25
6	63	51	42	37	58	47	40	34	40	34	30	34	29	26	28	25	22
7	58	46	38	32	53	42	35	30	36	31	27	31	26	23	25	22	20
8	54	41	34	28	49	39	32	27	33	28	24	28	24	21	23	20	18
9	50	38	30	25	46	35	28	24	30	25	21	26	21	18	21	18	16
10	47	35	27	23	43	32	26	21	28	23	19	24	20	17	20	17	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7549	7549	7549
5°	7605	7556	7529
10°	7588	7552	7530
15°	7548	7548	7540
20°	7498	7520	7520
25°	7427	7481	7458
30°	7336	7425	7394
35°	7228	7338	7287
40°	7108	7208	7135
45°	6979	7028	6919
50°	6796	6796	6687
55°	6581	6495	6397
60°	6263	6137	6039
65°	5790	5674	5624
70°	5069	5109	5088
75°	4078	4509	4538
80°	2896	3825	3863
85°	1768	3208	3208

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 7028 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.4	1.7
10°-20°	222.2	4.9
20°-30°	336.5	7.4
30°-40°	403.4	8.9
40°-50°	411.4	9.1
50°-60°	359.1	7.9
60°-70°	257.1	5.7
70°-80°	132.4	2.9
80°-90°	34.4	0.8
90°-100°	166.9	3.7
100°-110°	459.2	10.1
110°-120°	473.9	10.4
120°-130°	379.7	8.4
130°-140°	298.2	6.6
140°-150°	228.6	5.0
150°-160°	164.3	3.6
160°-170°	100.5	2.2
170°-180°	33.9	0.7
0°-30°	636.2	14.0
0°-40°	1039.6	22.9
0°-60°	1810.0	39.9
0°-90°	2233.9	49.2
90°-120°	1100.0	24.2
90°-150°	2006.5	44.2
90°-180°	2305.0	50.8
0°-180°	4539.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	818	818	818	818	818	
5°	821	813	816	814	813	78
15°	790	784	790	790	789	223
25°	730	724	735	733	733	336
35°	642	640	652	647	647	401
45°	535	533	539	532	530	412
55°	409	404	404	398	398	365
65°	265	259	260	258	258	262
75°	114	120	126	127	127	124
85°	17	26	30	31	30	23
90°	1	3	5	7	7	2
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°	818.2	818.2	818.2	818.2	818.2
2.5°	823.0	815.9	818.2	816.3	813.3
5°	821.2	813.1	815.9	813.6	812.9
7.5°	815.3	807.2	810.9	809.4	808.7
10°	809.9	801.7	806.1	804.5	803.8
12.5°	802.6	795.0	800.0	798.5	798.3
15°	790.2	783.5	790.2	790.1	789.4
17.5°	774.6	768.5	775.6	776.1	775.6
20°	763.7	757.0	765.9	765.2	765.9
22.5°	750.3	744.8	754.4	752.5	753.2
25°	729.6	724.4	734.9	732.6	732.6
27.5°	705.0	701.3	712.7	710.3	710.3
30°	688.6	684.9	697.0	694.0	694.0
32.5°	670.5	667.9	679.4	675.8	675.8
35°	641.7	640.2	651.5	647.0	647.0
37.5°	612.0	610.6	620.9	615.4	613.6
40°	590.2	589.4	598.5	592.4	592.4
42.5°	568.3	567.6	575.5	568.2	568.2
45°	534.9	533.4	538.6	531.8	530.3
47.5°	498.3	496.9	500.2	492.7	492.0
50°	473.5	472.0	473.5	466.7	465.9
52.5°	448.0	445.4	445.6	438.8	438.6
55°	409.1	403.9	403.8	397.7	397.7
57.5°	367.9	361.1	361.7	356.5	355.8
60°	339.4	332.0	332.6	328.0	327.3
62.5°	311.5	302.9	304.7	299.5	299.4
65°	265.2	259.2	259.9	257.6	257.6
67.5°	220.6	215.1	219.1	217.3	217.1
70°	187.9	184.2	189.4	189.4	188.6
72.5°	157.6	157.4	163.9	164.0	164.4
75°	114.4	119.6	126.5	127.3	127.3
77.5°	76.4	85.6	93.2	93.5	93.3
80°	54.5	64.9	72.0	73.5	72.7
82.5°	37.0	47.9	53.8	55.3	54.5
85°	16.7	25.6	30.3	31.0	30.3
87.5°	5.0	10.8	13.2	13.4	12.3
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)