

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-PC3-050U-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 (G3-1910-536-21)
Test Lab: INNOVATION CENTER
Issue Date: 8/1/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-PC3-050U-075D-927-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

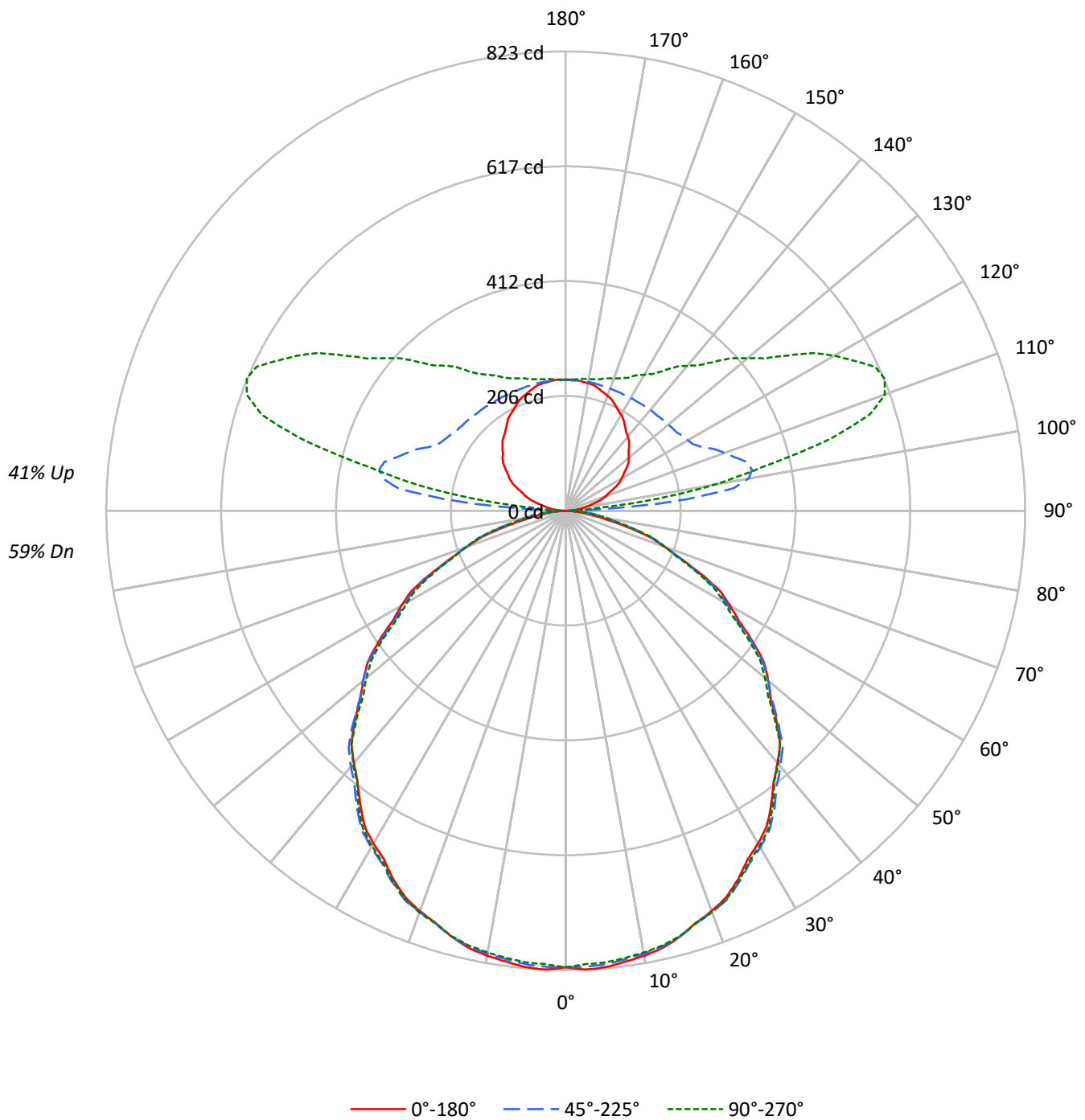
Lumens per Lamp: N/A
Luminaire Lumens: 3767.8 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 36.3
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	109	109	109	109	102	102	102	102	88	88	88	76	76	76	65	65	65
1	100	96	92	88	93	89	86	83	78	75	73	67	65	64	57	56	55
2	91	83	77	72	85	78	73	68	68	64	60	59	56	53	50	48	46
3	83	73	66	60	77	69	62	57	60	55	51	52	48	45	45	42	39
4	76	65	57	51	71	61	54	48	53	48	43	46	42	38	40	37	34
5	70	58	50	43	65	54	47	41	48	42	37	42	37	33	36	32	29
6	64	52	44	38	60	49	41	36	43	37	33	38	33	29	33	29	26
7	59	47	39	33	55	44	37	32	39	33	29	34	29	26	30	26	23
8	55	43	35	29	51	40	33	28	36	30	25	31	26	23	27	23	21
9	51	39	31	26	48	37	30	25	33	27	23	29	24	21	25	21	18
10	48	36	28	23	45	34	27	22	30	24	21	27	22	19	23	20	17

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	2.1
10°-20°	222.2	5.9
20°-30°	336.5	8.9
30°-40°	403.4	10.7
40°-50°	411.4	10.9
50°-60°	359.1	9.5
60°-70°	257.1	6.8
70°-80°	132.4	3.5
80°-90°	34.4	0.9
90°-100°	112.8	3.0
100°-110°	306.3	8.1
110°-120°	315.0	8.4
120°-130°	251.8	6.7
130°-140°	197.9	5.3
140°-150°	151.7	4.0
150°-160°	109.1	2.9
160°-170°	66.7	1.8
170°-180°	22.5	0.6
0°-30°	636.2	16.9
0°-40°	1039.6	27.6
0°-60°	1810.0	48.0
0°-90°	2233.9	59.3
90°-120°	734.1	19.5
90°-150°	1335.5	35.4
90°-180°	1534.0	40.7
0°-180°	3767.8	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°	17	62	196	86	57	18
105°	54	85	337	513	483	58
115°	97	117	270	536	611	95
125°	133	151	244	411	485	118
135°	160	178	237	335	378	124
145°	185	198	234	284	306	116
155°	209	217	233	256	263	96
165°	227	230	233	243	244	64
175°	235	236	234	237	236	22
180°	235	235	235	235	235	

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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	13.5	12.3
90°	0.8	3.0	5.3	6.8	6.8
92.5°	6.8	30.9	53.6	23.0	19.5
95°	16.6	61.7	196.4	85.5	57.4
97.5°	27.5	68.1	301.1	234.2	164.5
100°	34.7	72.4	333.1	337.7	272.7
102.5°	42.0	76.7	341.6	417.6	360.3
105°	54.4	84.7	336.9	512.9	482.7
107.5°	67.2	94.0	317.4	562.2	570.6
110°	76.3	100.7	302.9	571.8	608.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	84.1	107.3	288.4	563.8	618.3
115°	96.7	117.4	269.7	536.5	611.1
117.5°	108.5	128.3	257.7	497.7	581.8
120°	116.3	135.5	252.3	471.7	555.2
122.5°	123.0	142.2	248.7	445.7	526.2
125°	132.9	151.4	244.0	411.1	484.9
127.5°	141.9	160.2	241.4	384.8	448.2
130°	147.3	165.0	240.2	368.4	425.2
132.5°	152.7	170.5	239.0	354.3	404.7
135°	160.1	177.9	237.2	334.8	377.7
137.5°	168.1	184.2	236.3	317.6	353.6
140°	173.0	188.5	235.7	306.6	339.1
142.5°	177.8	192.1	235.1	298.1	325.2
145°	185.1	198.3	234.2	284.5	305.9
147.5°	193.2	204.6	233.4	273.8	290.6
150°	198.7	208.3	233.4	267.7	281.0
152.5°	202.9	211.3	232.8	262.2	273.1
155°	209.2	216.6	232.6	255.5	262.9
157.5°	215.4	221.2	232.6	250.9	256.5
160°	219.0	224.2	232.6	247.8	252.3
162.5°	222.7	226.7	233.2	245.4	248.7
165°	226.6	229.6	233.4	243.2	244.0
167.5°	230.7	232.2	234.2	240.7	241.3
170°	231.9	233.4	234.2	239.4	239.4
172.5°	233.1	234.0	234.2	238.2	238.2
175°	234.9	235.6	234.2	237.2	236.4
177.5°	235.5	235.5	233.7	236.1	234.9
180°	234.9	234.9	234.9	234.9	234.9

(END OF REPORT)