

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-PP3-050U-050D-927-1D-UNV-STD-W-6

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-PP3-050U-050D-927-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

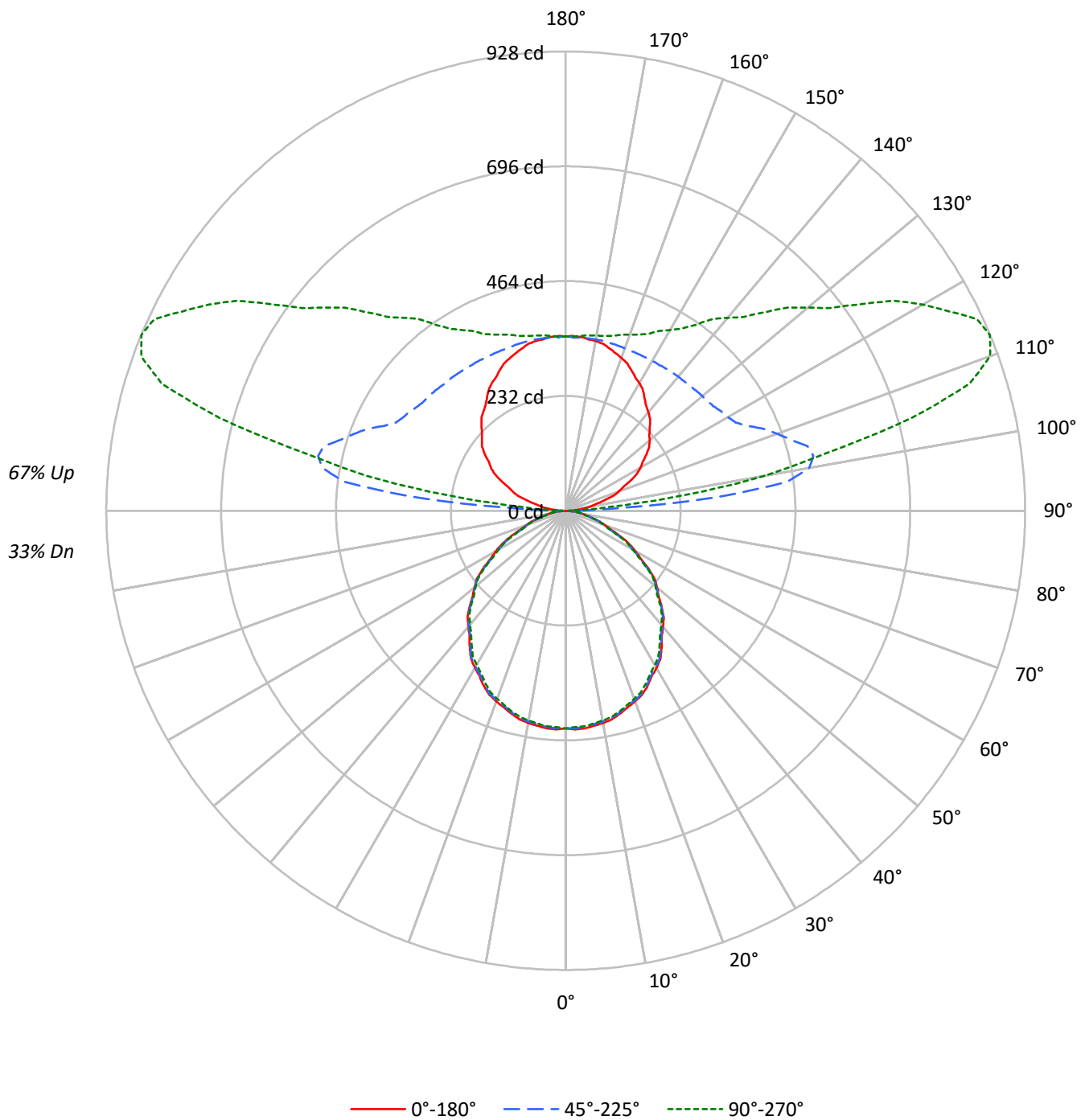
Lumens per Lamp: N/A
Luminaire Lumens: 3427.8 lumens
Efficiency: N/A
Efficacy: 76.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 44.8
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	103	103	103	103	93	93	93	93	74	74	74	56	56	56	40	40	40
1	94	90	86	83	85	81	78	75	65	63	61	50	48	47	36	35	34
2	86	79	73	68	77	71	66	62	57	53	50	44	42	39	32	30	29
3	78	69	62	56	70	63	57	52	50	46	42	39	36	33	28	26	25
4	72	61	54	48	64	55	49	44	45	40	36	35	31	29	25	23	21
5	66	54	47	41	59	49	43	37	40	35	31	31	28	25	23	20	19
6	60	49	41	35	54	44	37	32	36	31	27	28	24	22	21	18	16
7	56	44	36	31	50	40	33	28	32	27	24	25	22	19	19	16	15
8	52	40	32	27	46	36	30	25	29	24	21	23	20	17	17	15	13
9	48	36	29	24	43	33	27	22	27	22	19	21	18	15	16	13	12
10	45	33	26	21	40	30	24	20	25	20	17	20	16	14	15	12	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2706	2706	2706
5°	2725	2709	2699
10°	2721	2701	2689
15°	2702	2688	2673
20°	2685	2670	2650
25°	2653	2635	2608
30°	2604	2590	2558
35°	2536	2518	2486
40°	2455	2439	2411
45°	2388	2371	2348
50°	2302	2287	2265
55°	2182	2153	2137
60°	1987	1930	1920
65°	1751	1678	1672
70°	1511	1449	1449
75°	1300	1283	1264
80°	1148	1162	1133
85°	896	981	981

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2388 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.6	1.2
10°-20°	118.8	3.5
20°-30°	177.9	5.2
30°-40°	208.7	6.1
40°-50°	209.3	6.1
50°-60°	178.5	5.2
60°-70°	116.5	3.4
70°-80°	58.4	1.7
80°-90°	17.5	0.5
90°-100°	169.1	4.9
100°-110°	459.5	13.4
110°-120°	472.4	13.8
120°-130°	377.7	11.0
130°-140°	296.8	8.7
140°-150°	227.6	6.6
150°-160°	163.7	4.8
160°-170°	100.1	2.9
170°-180°	33.7	1.0
0°-30°	338.2	9.9
0°-40°	546.9	16.0
0°-60°	934.8	27.3
0°-90°	1127.2	32.9
90°-120°	1101.1	32.1
90°-150°	2003.2	58.4
90°-180°	2301.0	67.1
0°-180°	3427.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	440	440	440	440	440	
5°	441	437	439	437	437	42
15°	424	420	422	421	420	120
25°	391	386	388	385	384	180
35°	338	334	335	332	331	211
45°	274	273	273	270	270	211
55°	204	203	201	200	199	181
65°	120	118	115	114	115	120
75°	55	55	54	54	53	59
85°	13	14	14	14	14	15
90°	1	4	8	10	10	2
95°	25	92	295	128	86	26
105°	82	127	505	769	724	87
115°	145	176	404	805	917	143
125°	199	227	366	617	727	178
135°	240	267	356	502	566	186
145°	278	298	351	427	459	174
155°	314	325	349	383	394	145
165°	340	344	350	365	366	96
175°	352	354	351	356	355	33
180°	352	352	352	352	352	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	439.9	439.9	439.9	439.9	439.9
2.5°	442.6	439.0	439.9	439.2	437.4
5°	441.4	437.3	438.7	437.2	437.2
7.5°	438.4	433.9	435.3	433.8	433.7
10°	435.6	431.1	432.5	431.0	430.6
12.5°	431.6	427.1	428.8	427.0	426.9
15°	424.4	420.3	422.1	420.6	419.8
17.5°	416.3	411.8	414.0	411.9	411.6
20°	410.2	405.7	407.9	404.8	404.8
22.5°	402.8	398.2	400.8	396.8	396.8
25°	390.9	386.4	388.2	384.7	384.3
27.5°	376.8	372.3	374.2	370.3	370.2
30°	366.6	362.5	364.7	360.4	360.1
32.5°	355.5	351.7	353.3	349.0	348.6
35°	337.7	334.3	335.4	331.5	331.1
37.5°	319.0	315.5	316.7	313.4	313.3
40°	305.7	303.4	303.8	301.1	300.3
42.5°	293.4	290.8	291.1	288.4	288.3
45°	274.5	272.6	272.6	269.9	269.9
47.5°	254.4	253.0	252.6	250.3	250.3
50°	240.6	239.4	239.0	237.1	236.7
52.5°	226.1	225.5	224.2	222.6	222.5
55°	203.5	202.8	200.8	199.7	199.3
57.5°	179.1	177.6	175.4	173.7	174.0
60°	161.5	160.0	156.9	156.1	156.1
62.5°	144.6	142.8	139.6	138.6	139.2
65°	120.3	118.0	115.3	114.5	114.9
67.5°	98.2	96.2	93.2	93.2	92.9
70°	84.0	82.9	80.6	80.6	80.6
72.5°	71.4	70.9	69.2	69.2	68.9
75°	54.7	54.7	54.0	53.6	53.2
77.5°	41.0	41.2	40.8	40.4	39.7
80°	32.4	33.1	32.8	32.4	32.0
82.5°	24.4	25.1	25.1	24.4	24.3
85°	12.7	13.9	13.9	13.9	13.9
87.5°	3.6	5.5	6.5	7.0	7.3
90°	1.1	4.5	7.9	10.2	10.2
92.5°	10.2	46.3	80.4	34.5	29.2
95°	24.9	92.5	294.6	128.2	86.1
97.5°	41.2	102.2	451.6	351.3	246.8
100°	52.1	108.6	499.6	506.5	409.0
102.5°	63.0	115.1	512.3	626.4	540.4
105°	81.6	127.0	505.3	769.4	724.0
107.5°	100.8	140.9	476.1	843.2	855.9
110°	114.4	151.0	454.3	857.8	912.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	126.2	161.0	432.6	845.7	927.5
115°	145.0	176.0	404.5	804.7	916.6
117.5°	162.7	192.4	386.6	746.6	872.6
120°	174.5	203.3	378.4	707.6	832.7
122.5°	184.5	213.3	373.0	668.5	789.2
125°	199.4	227.1	366.0	616.6	727.4
127.5°	212.8	240.2	362.1	577.3	672.3
130°	220.9	247.5	360.3	552.6	637.9
132.5°	229.1	255.7	358.5	531.5	607.1
135°	240.2	266.8	355.8	502.2	566.5
137.5°	252.2	276.4	354.4	476.4	530.5
140°	259.5	282.7	353.5	460.0	508.7
142.5°	266.7	288.2	352.6	447.1	487.9
145°	277.6	297.5	351.2	426.7	458.9
147.5°	289.8	306.9	350.1	410.7	436.0
150°	298.0	312.4	350.1	401.5	421.5
152.5°	304.3	317.0	349.2	393.3	409.7
155°	313.8	324.9	349.0	383.2	394.3
157.5°	323.1	331.8	349.0	376.3	384.8
160°	328.6	336.3	349.0	371.8	378.4
162.5°	334.0	340.0	349.9	368.1	373.0
165°	339.9	344.3	350.1	364.8	366.0
167.5°	346.0	348.2	351.2	361.0	361.9
170°	347.8	350.0	351.2	359.2	359.2
172.5°	349.6	351.0	351.2	357.3	357.3
175°	352.4	353.5	351.2	355.7	354.6
177.5°	353.3	353.3	350.5	354.1	352.4
180°	352.4	352.4	352.4	352.4	352.4

(END OF REPORT)