

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-PP3-025U-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 (G3-1910-536-32)
Test Lab: INNOVATION CENTER
Issue Date: 8/1/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-PP3-025U-050D-927-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

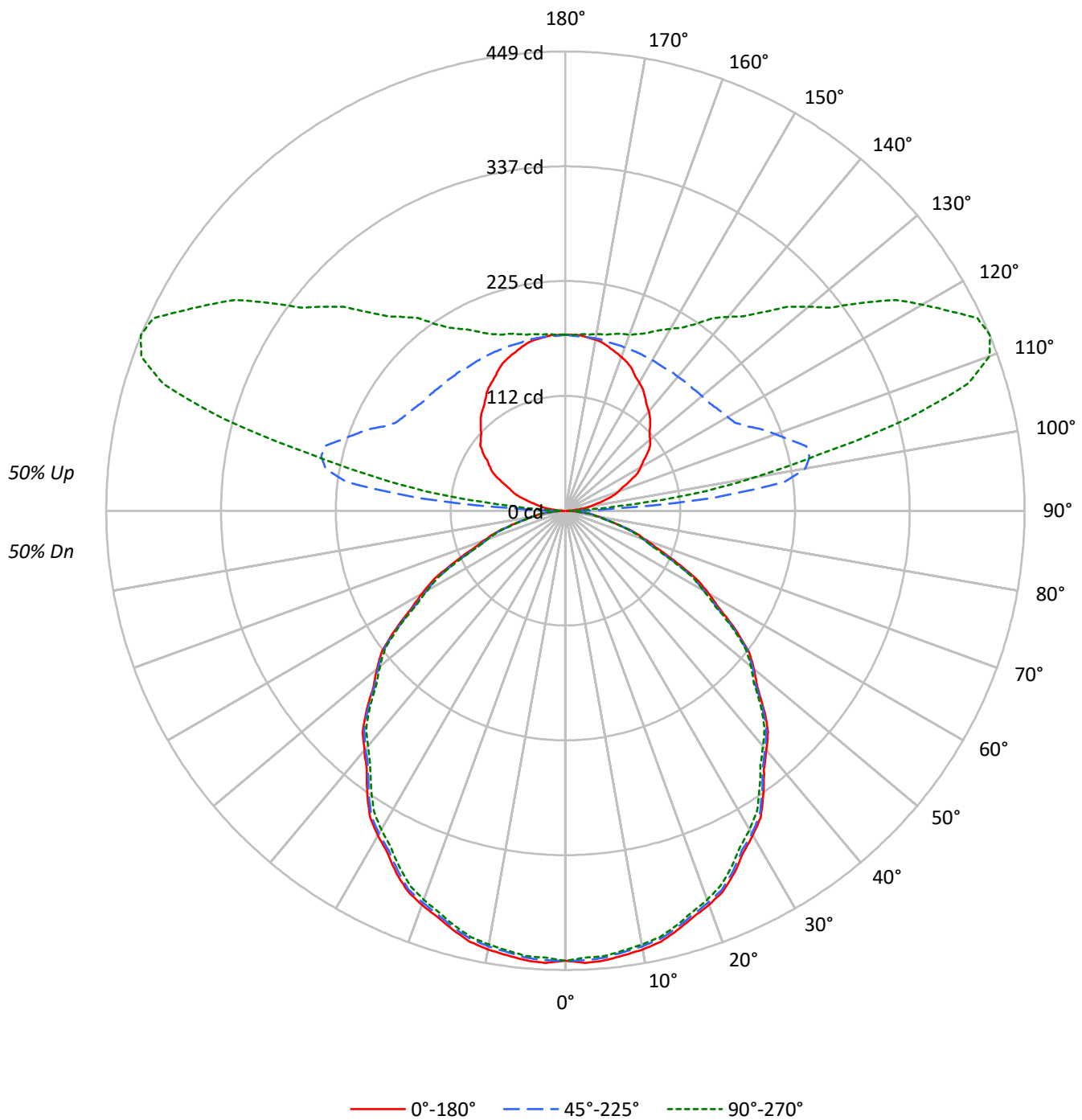
Lumens per Lamp: N/A
Luminaire Lumens: 2242.4 lumens
Efficiency: N/A
Efficacy: 64.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 34.9
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	99	99	99	99	83	83	83	69	69	69	56	56	56
1	98	94	90	87	90	87	83	81	73	71	69	61	60	58	50	49	48
2	89	82	76	71	82	76	71	66	65	61	57	54	51	49	44	42	41
3	82	72	65	59	75	67	61	56	57	52	48	48	44	41	39	37	35
4	75	64	56	50	69	59	53	47	51	46	41	43	39	36	35	32	30
5	69	57	49	43	63	53	46	41	45	40	36	38	34	31	32	29	26
6	63	51	43	37	58	48	41	35	41	35	31	35	30	27	29	26	23
7	58	46	38	33	54	43	36	31	37	32	27	32	27	24	26	23	21
8	54	42	34	29	50	39	32	27	34	28	24	29	25	21	24	21	18
9	51	38	31	26	47	36	29	24	31	26	22	27	22	19	22	19	17
10	47	35	28	23	44	33	26	22	29	23	20	25	20	17	21	17	15

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	1.9
10°-20°	118.8	5.3
20°-30°	177.9	7.9
30°-40°	208.7	9.3
40°-50°	209.3	9.3
50°-60°	178.5	8.0
60°-70°	116.5	5.2
70°-80°	58.4	2.6
80°-90°	17.1	0.8
90°-100°	83.9	3.7
100°-110°	220.5	9.8
110°-120°	228.7	10.2
120°-130°	183.4	8.2
130°-140°	143.9	6.4
140°-150°	110.5	4.9
150°-160°	79.6	3.5
160°-170°	48.7	2.2
170°-180°	16.4	0.7
0°-30°	338.2	15.1
0°-40°	546.9	24.4
0°-60°	934.8	41.7
0°-90°	1126.8	50.2
90°-120°	533.1	23.8
90°-150°	970.9	43.3
90°-180°	1116.0	49.8
0°-180°	2242.4	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	3	9	4	4	1
95°	11	43	144	74	51	12
105°	40	60	244	370	345	42
115°	71	86	195	390	445	70
125°	98	110	178	300	354	87
135°	117	129	172	242	275	91
145°	136	144	170	207	223	85
155°	153	158	170	187	192	70
165°	166	168	170	177	179	47
175°	172	172	171	173	173	16
180°	172	172	172	172	172	

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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	5.3	6.7	5.8	6.1
90°	1.1	3.3	8.8	4.4	4.4
92.5°	4.6	22.3	49.4	21.9	14.1
95°	11.0	43.4	144.5	74.5	50.8
97.5°	19.2	47.7	216.3	172.0	126.7
100°	25.4	51.3	238.3	241.5	187.6
102.5°	30.7	54.8	244.5	300.8	254.7
105°	39.7	60.2	243.8	370.2	345.3
107.5°	49.0	68.0	229.9	406.2	412.2
110°	55.2	72.4	218.5	415.4	441.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	61.3	77.7	207.9	409.6	449.3
115°	70.6	85.7	195.3	389.6	444.7
117.5°	79.7	93.5	186.7	362.0	423.0
120°	85.0	97.9	183.2	343.4	402.7
122.5°	90.3	103.2	180.5	324.8	383.3
125°	98.2	110.1	177.6	300.2	354.2
127.5°	104.6	116.7	175.2	280.4	325.9
130°	108.1	121.1	174.3	268.0	310.0
132.5°	111.7	124.6	173.4	257.3	295.0
135°	117.0	128.8	172.1	242.4	274.7
137.5°	122.5	134.1	171.9	231.2	257.7
140°	126.9	137.7	171.0	222.3	247.2
142.5°	130.4	140.3	171.0	216.1	237.4
145°	135.7	144.3	169.9	206.7	222.9
147.5°	141.0	149.4	169.9	198.9	212.3
150°	144.5	152.1	169.9	194.4	205.2
152.5°	148.1	153.9	169.9	190.8	199.0
155°	153.4	157.7	169.9	186.6	192.0
157.5°	157.3	161.4	169.9	182.8	186.7
160°	160.0	163.2	169.9	181.0	183.2
162.5°	162.6	165.0	169.9	179.2	181.4
165°	165.5	167.7	169.9	176.6	178.7
167.5°	168.2	169.2	171.0	175.5	176.3
170°	169.9	171.0	171.0	175.4	175.4
172.5°	170.8	171.0	171.0	174.5	173.7
175°	172.1	172.1	171.0	173.2	173.2
177.5°	172.1	172.1	171.2	173.0	172.1
180°	172.1	172.1	172.1	172.1	172.1

(END OF REPORT)