

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-100D-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-100D-927-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

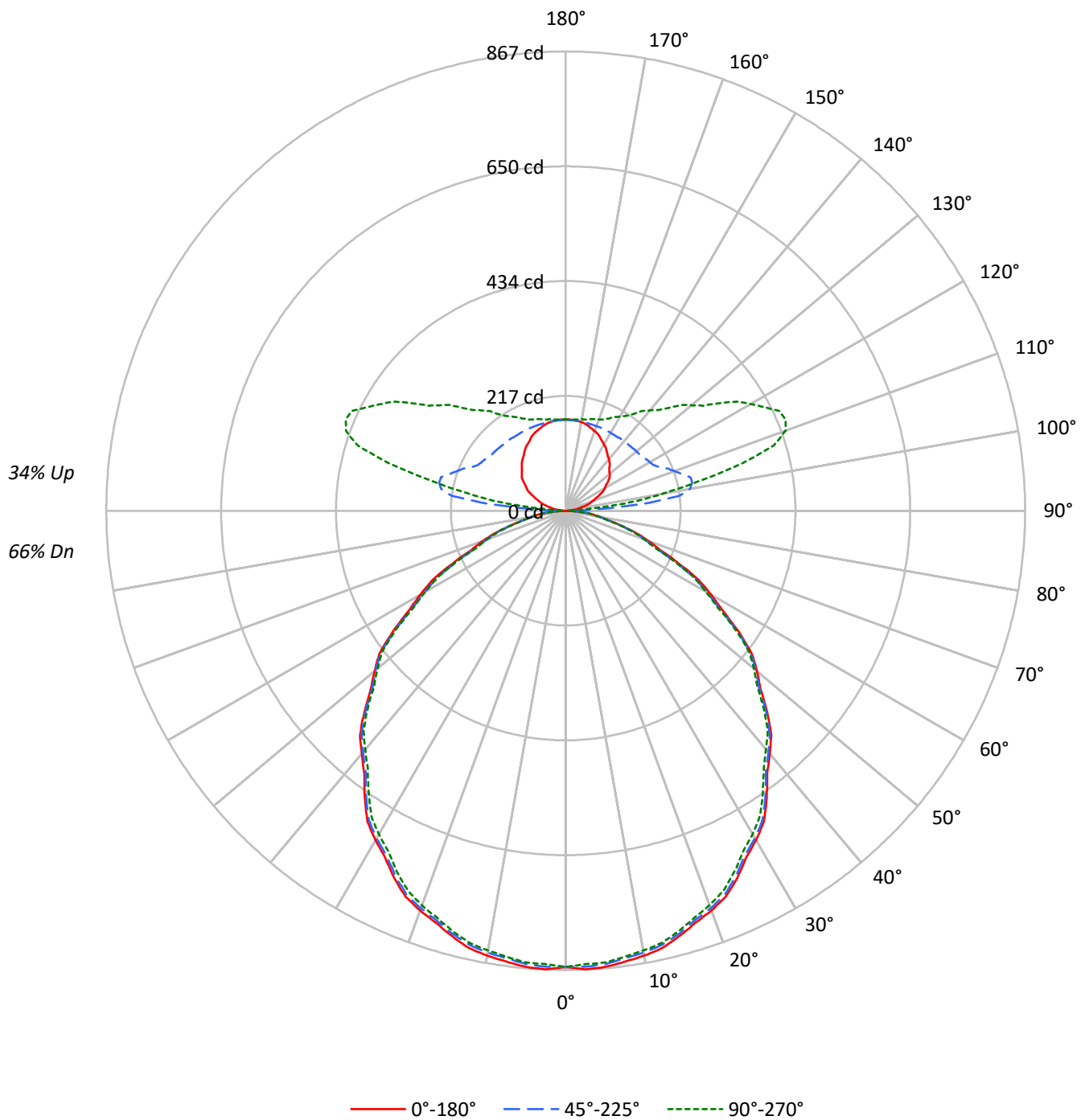
Lumens per Lamp: N/A
Luminaire Lumens: 3321.2 lumens
Efficiency: N/A
Efficacy: 52.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 63.5
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	111	111	111	111	105	105	105	105	92	92	92	81	81	81	71	71	71
1	102	97	94	90	96	92	89	85	82	79	77	72	70	68	63	62	61
2	93	85	79	74	87	81	75	71	72	68	64	64	60	58	56	54	52
3	85	75	68	62	80	71	65	59	64	58	54	56	52	49	50	47	44
4	78	67	59	53	73	63	56	50	57	51	46	50	46	42	45	41	38
5	71	60	51	45	67	57	49	43	51	45	40	45	40	37	40	36	33
6	66	54	45	39	62	51	43	38	46	40	35	41	36	32	37	33	29
7	61	49	40	35	57	46	39	33	42	35	31	37	32	29	33	29	26
8	57	44	36	31	53	42	35	30	38	32	28	34	29	25	31	27	23
9	53	40	33	28	50	39	31	27	35	29	25	32	27	23	28	24	21
10	49	37	30	25	47	35	29	24	32	26	22	29	24	21	26	22	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5298	5298	5298
5°	5337	5304	5286
10°	5328	5291	5267
15°	5293	5264	5235
20°	5258	5228	5189
25°	5195	5159	5108
30°	5099	5072	5008
35°	4966	4932	4869
40°	4807	4777	4722
45°	4675	4643	4597
50°	4508	4479	4435
55°	4274	4218	4185
60°	3891	3780	3762
65°	3427	3285	3275
70°	2960	2838	2838
75°	2548	2512	2476
80°	2246	2274	2221
85°	1757	1920	1920

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4675 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.5	2.5
10°-20°	232.6	7.0
20°-30°	348.4	10.5
30°-40°	408.6	12.3
40°-50°	409.9	12.3
50°-60°	349.7	10.5
60°-70°	228.0	6.9
70°-80°	114.4	3.4
80°-90°	32.6	1.0
90°-100°	83.9	2.5
100°-110°	220.5	6.6
110°-120°	228.7	6.9
120°-130°	183.4	5.5
130°-140°	143.9	4.3
140°-150°	110.5	3.3
150°-160°	79.6	2.4
160°-170°	48.7	1.5
170°-180°	16.4	0.5
0°-30°	662.4	19.9
0°-40°	1071.0	32.2
0°-60°	1830.6	55.1
0°-90°	2205.6	66.4
90°-120°	533.1	16.1
90°-150°	970.9	29.2
90°-180°	1116.0	33.6
0°-180°	3321.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	861	861	861	861	861	
5°	864	856	859	856	856	82
15°	831	823	827	824	822	234
25°	766	757	760	753	753	352
35°	661	655	657	649	648	413
45°	538	534	534	528	528	414
55°	399	397	393	391	390	354
65°	236	231	226	224	225	235
75°	107	107	106	105	104	116
85°	25	27	27	27	27	29
90°	1	3	9	4	4	2
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°	861.4	861.4	861.4	861.4	861.4
2.5°	866.8	859.7	861.4	860.1	856.6
5°	864.4	856.3	859.1	856.1	856.1
7.5°	858.5	849.7	852.5	849.5	849.3
10°	853.1	844.2	847.1	844.0	843.3
12.5°	845.2	836.4	839.8	836.2	836.0
15°	831.2	823.1	826.7	823.6	822.1
17.5°	815.3	806.5	810.8	806.6	806.0
20°	803.3	794.4	798.7	792.7	792.7
22.5°	788.8	779.9	784.8	777.0	777.0
25°	765.5	756.7	760.2	753.4	752.7
27.5°	737.9	729.2	732.9	725.2	725.1
30°	718.0	709.8	714.2	705.9	705.1
32.5°	696.2	688.7	691.8	683.5	682.8
35°	661.3	654.7	656.8	649.2	648.5
37.5°	624.6	617.9	620.3	613.8	613.5
40°	598.7	594.2	594.9	589.6	588.1
42.5°	574.5	569.5	570.1	564.8	564.6
45°	537.5	533.8	533.8	528.5	528.5
47.5°	498.3	495.5	494.6	490.3	490.1
50°	471.1	468.9	468.1	464.3	463.5
52.5°	442.7	441.7	439.1	435.9	435.8
55°	398.6	397.1	393.3	391.0	390.3
57.5°	350.8	347.8	343.5	340.2	340.8
60°	316.3	313.4	307.3	305.8	305.8
62.5°	283.1	279.6	273.4	271.4	272.5
65°	235.5	231.1	225.7	224.2	225.0
67.5°	192.4	188.4	182.5	182.5	181.9
70°	164.6	162.4	157.8	157.8	157.8
72.5°	139.8	138.8	135.4	135.4	134.8
75°	107.2	107.2	105.7	104.9	104.2
77.5°	80.3	80.6	79.9	79.1	77.8
80°	63.4	64.9	64.2	63.4	62.7
82.5°	47.7	49.2	49.1	47.7	47.6
85°	24.9	27.1	27.2	27.2	27.2
87.5°	6.9	9.7	11.4	10.6	11.2
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

TEST NUMBER:

CATALOG NUMBER: SQ4-PP3-025U-100D-927-1D-UNV-STD-W-6

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)