

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-PC3-025U-075D-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-PC3-025U-075D-927-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

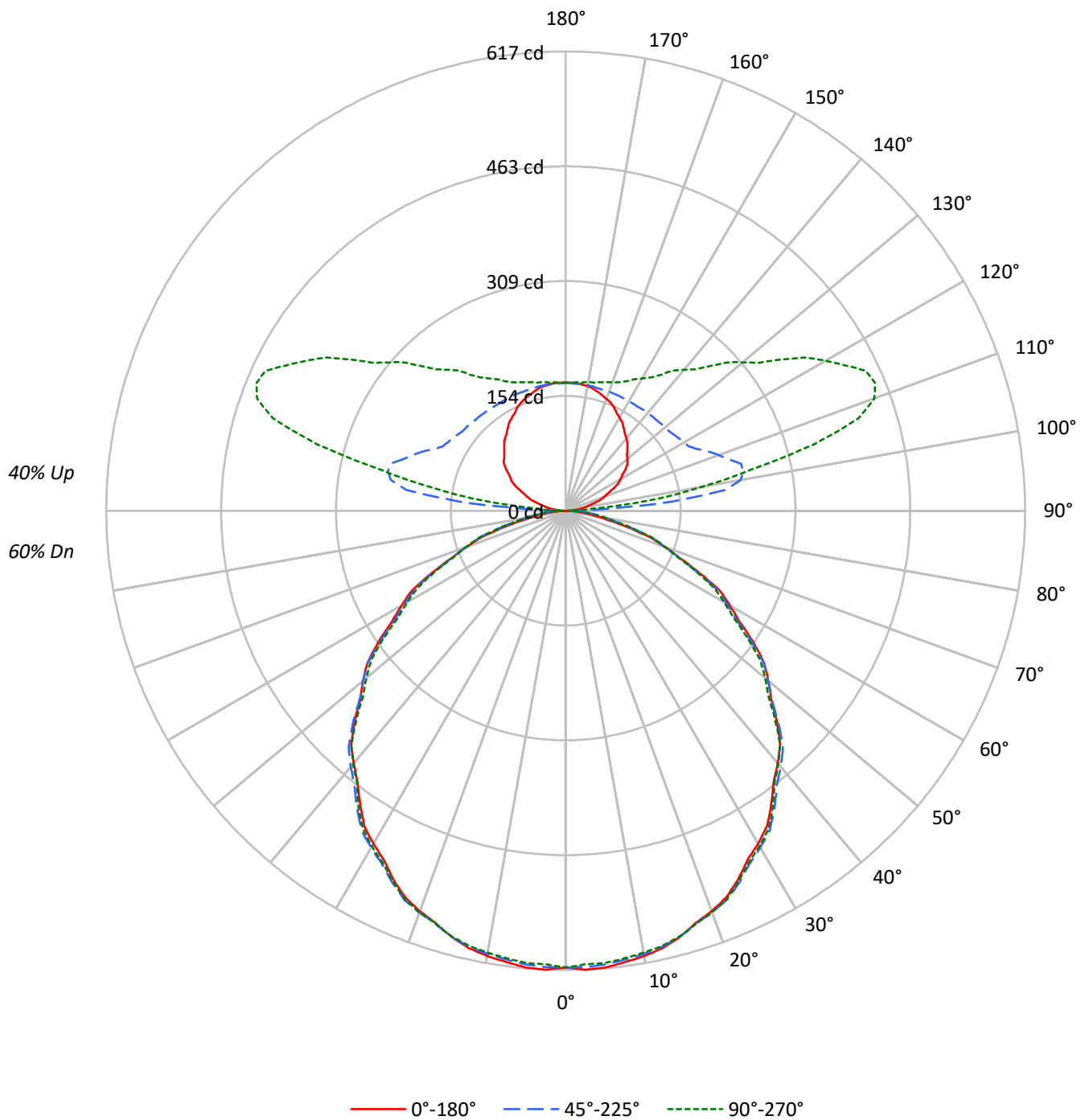
Lumens per Lamp: N/A
Luminaire Lumens: 2791.3 lumens
Efficiency: N/A
Efficacy: 57.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 48.6
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	110	110	110	110	102	102	102	102	89	89	89	77	77	77	65	65	65
1	100	96	92	88	93	90	86	83	78	76	73	68	66	64	58	57	55
2	91	84	77	72	85	78	73	68	68	64	61	59	56	53	51	49	47
3	83	74	66	60	77	69	62	57	60	55	51	52	49	45	45	42	40
4	76	65	57	51	71	61	54	48	54	48	43	47	42	39	40	37	34
5	70	58	50	44	65	55	47	42	48	42	37	42	37	34	36	33	30
6	64	52	44	38	60	49	42	36	43	37	33	38	33	29	33	29	26
7	60	47	39	33	55	44	37	32	39	33	29	34	30	26	30	26	23
8	55	43	35	29	52	40	33	28	36	30	26	32	27	23	28	24	21
9	51	39	31	26	48	37	30	25	33	27	23	29	24	21	25	22	19
10	48	36	28	24	45	34	27	23	30	25	21	27	22	19	24	20	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3774	3774	3774
5°	3803	3778	3764
10°	3794	3776	3766
15°	3774	3774	3770
20°	3749	3760	3760
25°	3714	3740	3729
30°	3668	3712	3697
35°	3614	3669	3643
40°	3554	3604	3567
45°	3489	3514	3459
50°	3398	3398	3343
55°	3290	3247	3199
60°	3132	3068	3020
65°	2895	2837	2812
70°	2534	2554	2545
75°	2039	2255	2270
80°	1449	1913	1930
85°	882	1602	1602

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 3514 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.1	2.1
10°-20°	166.7	6.0
20°-30°	252.4	9.0
30°-40°	302.6	10.8
40°-50°	308.5	11.1
50°-60°	269.3	9.6
60°-70°	192.8	6.9
70°-80°	99.3	3.6
80°-90°	26.0	0.9
90°-100°	83.9	3.0
100°-110°	220.5	7.9
110°-120°	228.7	8.2
120°-130°	183.4	6.6
130°-140°	143.9	5.2
140°-150°	110.5	4.0
150°-160°	79.6	2.9
160°-170°	48.7	1.7
170°-180°	16.4	0.6
0°-30°	477.1	17.1
0°-40°	779.7	27.9
0°-60°	1357.5	48.6
0°-90°	1675.7	60.0
90°-120°	533.1	19.1
90°-150°	970.9	34.8
90°-180°	1116.0	40.0
0°-180°	2791.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	614	614	614	614	614	
5°	616	610	612	610	610	58
15°	593	588	593	593	592	167
25°	547	543	551	549	549	252
35°	481	480	489	485	485	301
45°	401	400	404	399	398	309
55°	307	303	303	298	298	274
65°	199	194	195	193	193	197
75°	86	90	95	96	96	93
85°	12	19	23	23	23	17
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°	613.6	613.6	613.6	613.6	613.6
2.5°	617.3	612.0	613.6	612.2	610.0
5°	615.9	609.8	611.9	610.2	609.7
7.5°	611.5	605.4	608.2	607.0	606.5
10°	607.4	601.3	604.6	603.4	602.9
12.5°	601.9	596.3	600.0	598.9	598.8
15°	592.6	587.6	592.6	592.6	592.1
17.5°	580.9	576.4	581.7	582.0	581.7
20°	572.7	567.7	574.4	573.9	574.4
22.5°	562.7	558.6	565.8	564.3	564.9
25°	547.2	543.3	551.1	549.4	549.4
27.5°	528.8	526.0	534.6	532.7	532.7
30°	516.5	513.7	522.7	520.5	520.5
32.5°	502.9	501.0	509.6	506.8	506.8
35°	481.3	480.1	488.6	485.2	485.2
37.5°	459.0	458.0	465.7	461.6	460.2
40°	442.6	442.1	448.9	444.3	444.3
42.5°	426.3	425.7	431.6	426.1	426.1
45°	401.1	400.0	404.0	398.8	397.7
47.5°	373.8	372.6	375.1	369.5	369.0
50°	355.1	354.0	355.1	350.0	349.4
52.5°	336.0	334.0	334.2	329.1	329.0
55°	306.8	302.9	302.8	298.3	298.3
57.5°	275.9	270.8	271.3	267.4	266.8
60°	254.6	249.0	249.4	246.0	245.5
62.5°	233.6	227.2	228.5	224.7	224.5
65°	198.9	194.4	194.9	193.2	193.2
67.5°	165.5	161.3	164.3	163.0	162.8
70°	140.9	138.1	142.0	142.0	141.5
72.5°	118.2	118.1	123.0	123.0	123.3
75°	85.8	89.7	94.9	95.5	95.5
77.5°	57.3	64.2	69.9	70.1	70.0
80°	40.9	48.7	54.0	55.1	54.5
82.5°	27.7	36.0	40.3	41.5	40.9
85°	12.5	19.2	22.7	23.3	22.7
87.5°	3.9	8.3	10.9	10.0	9.1
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)