

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-PP3-075U-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 (G3-1910-536-22)
Test Lab: INNOVATION CENTER
Issue Date: 8/1/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-PP3-075U-075D-927-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

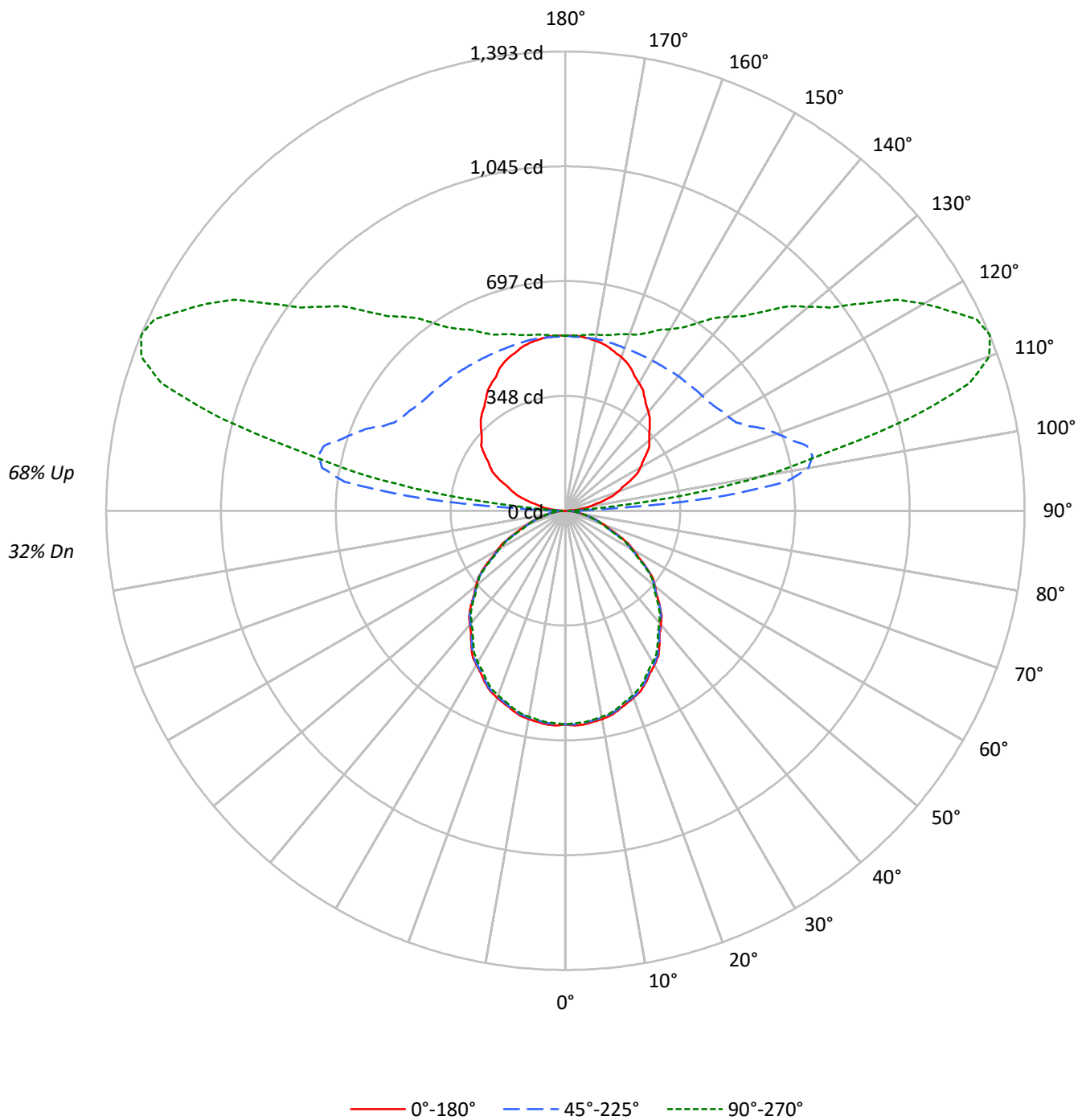
Lumens per Lamp: N/A
Luminaire Lumens: 5118.4 lumens
Efficiency: N/A
Efficacy: 75.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 68
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

TEST NUMBER:

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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	62	61		49	48	47		36	35	34
2	86	79	73	68		77	71	66	62		57	53	50		44	41	39		31	30	29
3	78	69	62	56		70	62	56	52		50	46	42		39	36	33		28	26	25
4	71	61	53	48		64	55	49	44		44	40	36		34	31	29		25	23	21
5	65	54	46	41		59	49	42	37		40	35	31		31	27	25		22	20	18
6	60	49	41	35		54	44	37	32		36	31	27		28	24	22		20	18	16
7	56	44	36	31		50	40	33	28		32	27	24		25	22	19		19	16	14
8	52	40	32	27		46	36	29	25		29	24	21		23	19	17		17	15	13
9	48	36	29	24		43	33	26	22		27	22	19		21	18	15		16	13	12
10	45	33	26	21		40	30	24	20		25	20	17		19	16	14		15	12	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3988	3988	3988
5°	4017	3992	3978
10°	4010	3982	3964
15°	3984	3962	3940
20°	3957	3935	3905
25°	3910	3883	3845
30°	3837	3818	3769
35°	3737	3712	3665
40°	3618	3595	3554
45°	3519	3494	3459
50°	3392	3371	3339
55°	3217	3174	3151
60°	2929	2845	2831
65°	2580	2473	2464
70°	2228	2136	2136
75°	1918	1889	1863
80°	1690	1711	1672
85°	1327	1447	1447

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3519 cd/sqm

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CATALOG NUMBER: SQ4-PP3-075U-075D-927-1D-UNV-STD-W-6

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.3	1.2
10°-20°	175.0	3.4
20°-30°	262.2	5.1
30°-40°	307.5	6.0
40°-50°	308.5	6.0
50°-60°	263.2	5.1
60°-70°	171.6	3.4
70°-80°	86.1	1.7
80°-90°	25.2	0.5
90°-100°	250.3	4.9
100°-110°	688.7	13.5
110°-120°	710.9	13.9
120°-130°	569.6	11.1
130°-140°	447.4	8.7
140°-150°	342.8	6.7
150°-160°	246.5	4.8
160°-170°	150.7	2.9
170°-180°	50.8	1.0
0°-30°	498.5	9.7
0°-40°	806.1	15.7
0°-60°	1377.7	26.9
0°-90°	1660.7	32.4
90°-120°	1650.0	32.2
90°-150°	3009.8	58.8
90°-180°	3458.0	67.6
0°-180°	5118.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	648	648	648	648	648	
5°	651	644	647	644	644	62
15°	626	620	622	620	619	176
25°	576	570	572	567	566	265
35°	498	493	494	489	488	311
45°	404	402	402	398	398	311
55°	300	299	296	294	294	267
65°	177	174	170	169	169	177
75°	81	81	80	79	78	88
85°	19	20	20	20	20	22
90°	1	4	8	10	10	3
95°	37	137	443	189	121	39
105°	123	189	759	1156	1078	130
115°	218	265	609	1212	1376	215
125°	300	342	552	934	1094	268
135°	362	402	536	756	855	280
145°	419	448	528	644	693	263
155°	474	490	525	579	595	218
165°	513	519	527	549	552	144
175°	531	532	528	535	534	50
180°	531	531	531	531	531	

TEST NUMBER:

CATALOG NUMBER: SQ4-PP3-075U-075D-927-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	648.3	648.3	648.3	648.3	648.3
2.5°	652.4	647.1	648.3	647.3	644.7
5°	650.6	644.5	646.6	644.3	644.3
7.5°	646.1	639.5	641.6	639.3	639.2
10°	642.0	635.4	637.5	635.2	634.7
12.5°	636.1	629.5	632.0	629.3	629.2
15°	625.6	619.5	622.2	619.9	618.8
17.5°	613.6	607.0	610.2	607.0	606.6
20°	604.5	597.9	601.1	596.6	596.6
22.5°	593.6	587.0	590.7	584.8	584.8
25°	576.1	569.5	572.2	567.0	566.5
27.5°	555.3	548.8	551.6	545.8	545.7
30°	540.3	534.2	537.5	531.2	530.7
32.5°	524.0	518.3	520.7	514.4	513.9
35°	497.7	492.7	494.3	488.6	488.1
37.5°	470.1	465.0	466.8	461.9	461.7
40°	450.6	447.2	447.7	443.7	442.6
42.5°	432.4	428.6	429.1	425.1	424.9
45°	404.5	401.8	401.7	397.7	397.7
47.5°	375.0	372.9	372.3	369.0	368.9
50°	354.5	352.9	352.3	349.4	348.9
52.5°	333.2	332.4	330.5	328.1	328.0
55°	300.0	298.9	296.0	294.3	293.8
57.5°	264.0	261.8	258.5	256.0	256.5
60°	238.1	235.8	231.3	230.1	230.1
62.5°	213.1	210.4	205.8	204.2	205.1
65°	177.3	173.9	169.9	168.8	169.3
67.5°	144.8	141.8	137.4	137.4	136.9
70°	123.9	122.2	118.8	118.8	118.8
72.5°	105.2	104.5	101.9	101.9	101.5
75°	80.7	80.7	79.5	79.0	78.4
77.5°	60.5	60.7	60.1	59.5	58.5
80°	47.7	48.8	48.3	47.7	47.2
82.5°	35.9	37.0	36.9	35.9	35.8
85°	18.8	20.4	20.5	20.5	20.5
87.5°	5.2	7.7	8.9	9.3	9.8
90°	1.1	4.4	7.9	10.2	10.2
92.5°	15.6	66.6	115.4	44.3	36.4
95°	37.3	136.6	442.7	189.3	120.8
97.5°	60.8	151.5	675.6	520.5	367.3
100°	77.9	160.7	748.7	755.7	616.6
102.5°	94.2	171.7	767.7	937.6	809.9
105°	123.1	189.3	758.9	1155.8	1078.5
107.5°	150.7	211.2	715.8	1262.6	1285.6
110°	170.5	225.7	683.2	1289.2	1368.7

TEST NUMBER:

CATALOG NUMBER: SQ4-PP3-075U-075D-927-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	188.6	242.0	650.7	1272.1	1393.1
115°	218.0	265.4	608.7	1212.1	1375.5
117.5°	246.0	289.7	582.0	1127.9	1312.7
120°	263.1	305.1	570.3	1064.8	1255.8
122.5°	278.5	320.4	562.2	1009.4	1190.8
125°	300.4	342.4	552.2	934.2	1094.3
127.5°	321.2	361.2	545.7	871.4	1011.9
130°	332.0	372.9	542.1	834.1	962.2
132.5°	344.7	385.5	539.4	801.3	917.0
135°	362.5	402.3	536.4	755.5	854.9
137.5°	379.2	416.1	533.9	718.5	800.5
140°	391.9	426.1	533.0	694.0	767.9
142.5°	402.7	434.3	531.2	672.0	735.4
145°	419.0	447.7	528.5	643.7	693.4
147.5°	436.4	461.1	527.2	618.6	658.4
150°	447.2	469.3	526.3	604.9	635.8
152.5°	457.1	477.5	525.4	593.0	618.6
155°	474.3	489.8	525.1	578.6	595.1
157.5°	486.7	499.3	525.1	566.7	578.2
160°	495.8	505.7	525.1	560.3	569.2
162.5°	503.0	511.2	526.0	554.9	561.9
165°	512.7	519.3	527.4	548.9	552.2
167.5°	519.5	524.6	528.5	543.9	544.8
170°	524.0	527.3	528.5	542.1	542.1
172.5°	527.6	529.2	528.5	539.3	538.5
175°	530.8	531.9	528.5	535.3	534.2
177.5°	531.7	531.7	528.1	533.4	531.7
180°	530.8	530.8	530.8	530.8	530.8

(END OF REPORT)