

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-PP3-100U-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 (G3-1910-536-23)
Test Lab: INNOVATION CENTER
Issue Date: 8/1/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-PP3-100U-075D-927-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

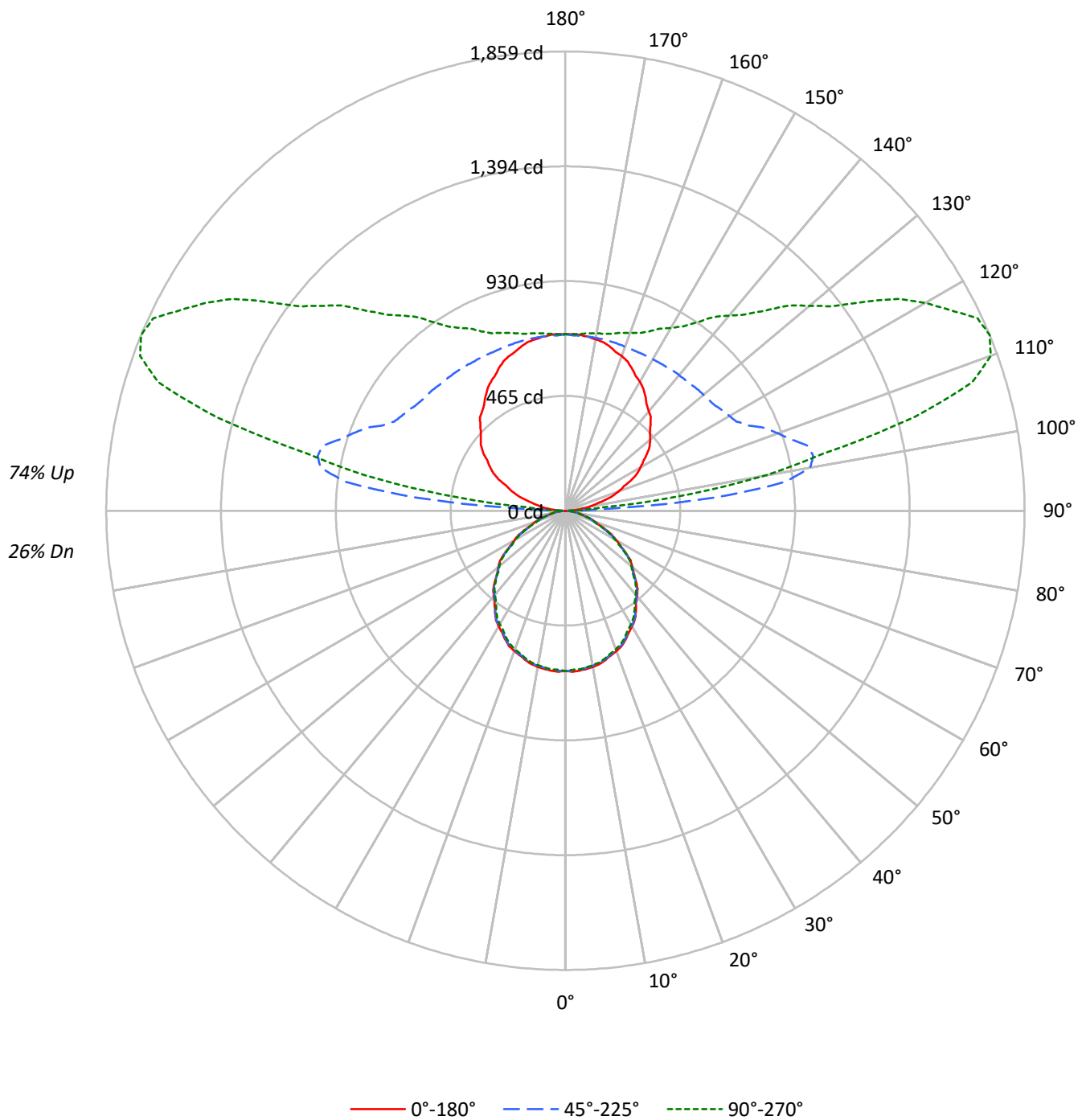
Lumens per Lamp: N/A
Luminaire Lumens: 6299.6 lumens
Efficiency: N/A
Efficacy: 80.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 78
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	102	102	102	102		91	91	91	91		70	70	70		52	52	52		34	34	34
1	93	88	85	81		83	79	76	73		62	59	58		45	44	43		31	30	29
2	84	77	71	67		75	69	64	60		54	51	48		40	38	36		27	26	25
3	77	68	61	55		68	61	55	50		48	44	40		35	33	30		24	22	21
4	70	60	53	47		62	54	47	43		42	38	34		31	28	26		21	20	18
5	64	53	46	40		57	48	41	36		38	33	29		28	25	23		19	17	16
6	59	48	40	34		53	43	36	31		34	29	25		25	22	20		17	15	14
7	55	43	35	30		49	39	32	27		31	26	22		23	20	17		16	14	12
8	51	39	31	26		45	35	29	24		28	23	20		21	18	15		15	13	11
9	47	35	28	23		42	32	26	21		25	21	17		19	16	14		13	11	10
10	44	32	25	21		39	29	23	19		23	19	16		18	15	12		12	10	9

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-PP3-100U-075D-927-1D-UNV-STD-W-6

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.3	1.0
10°-20°	175.0	2.8
20°-30°	262.2	4.2
30°-40°	307.5	4.9
40°-50°	308.5	4.9
50°-60°	263.2	4.2
60°-70°	171.6	2.7
70°-80°	86.1	1.4
80°-90°	25.3	0.4
90°-100°	334.3	5.3
100°-110°	923.0	14.7
110°-120°	951.9	15.1
120°-130°	765.0	12.1
130°-140°	601.2	9.5
140°-150°	461.1	7.3
150°-160°	331.4	5.3
160°-170°	202.6	3.2
170°-180°	68.3	1.1
0°-30°	498.5	7.9
0°-40°	806.1	12.8
0°-60°	1377.7	21.9
0°-90°	1660.8	26.4
90°-120°	2209.3	35.1
90°-150°	4036.5	64.1
90°-180°	4639.0	73.6
0°-180°	6299.6	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°	2	4	9	10	11	4
95°	49	181	607	249	162	53
105°	164	254	1016	1550	1460	175
115°	295	356	818	1619	1841	290
125°	404	460	741	1255	1472	360
135°	487	539	721	1016	1146	377
145°	564	603	712	865	931	353
155°	636	658	706	776	801	293
165°	689	698	709	737	742	194
175°	714	715	710	721	718	68
180°	714	714	714	714	714	

TEST NUMBER:

CATALOG NUMBER: SQ4-PP3-100U-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°	5.5	7.7	9.1	9.3	10.0
90°	2.3	4.5	9.1	10.3	11.4
92.5°	20.6	85.3	152.6	55.7	43.4
95°	49.1	180.9	606.6	249.3	162.2
97.5°	81.3	202.6	898.5	691.8	501.0
100°	105.1	215.7	1006.4	1013.5	823.6
102.5°	127.9	230.5	1027.4	1252.2	1072.2
105°	164.5	253.8	1015.5	1550.3	1459.9
107.5°	203.3	282.9	958.9	1694.1	1727.2
110°	230.7	302.2	915.0	1725.0	1832.3

TEST NUMBER:

CATALOG NUMBER: SQ4-PP3-100U-075D-927-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	255.4	324.2	873.9	1700.6	1858.8
115°	294.7	356.1	817.9	1619.1	1841.4
117.5°	329.0	390.2	781.1	1504.5	1757.3
120°	351.8	412.1	766.5	1426.8	1681.5
122.5°	373.8	431.4	754.6	1354.3	1595.6
125°	404.4	460.2	741.4	1254.6	1472.4
127.5°	430.4	486.3	733.6	1170.3	1358.2
130°	447.8	503.6	729.9	1118.8	1289.7
132.5°	464.2	517.4	726.3	1075.5	1230.3
135°	486.6	539.1	720.8	1016.2	1145.7
137.5°	511.8	559.6	718.1	966.4	1077.0
140°	525.5	572.4	716.2	933.2	1030.4
142.5°	541.0	584.3	714.4	903.7	989.2
145°	564.3	603.4	711.7	865.1	931.0
147.5°	586.7	620.9	709.1	832.5	883.7
150°	603.1	631.1	708.2	813.1	854.4
152.5°	615.9	642.1	707.3	796.5	830.7
155°	636.3	657.5	705.9	776.2	800.8
157.5°	655.0	671.3	706.2	761.4	778.1
160°	666.0	680.5	707.1	753.1	765.3
162.5°	675.1	687.8	708.0	745.7	755.3
165°	688.8	697.7	709.4	736.9	742.5
167.5°	699.3	704.7	710.5	731.6	733.4
170°	704.8	709.3	710.5	728.8	728.8
172.5°	709.4	712.1	710.5	725.1	724.2
175°	713.9	715.1	710.5	720.7	718.5
177.5°	715.8	714.9	710.3	716.6	714.9
180°	713.9	713.9	713.9	713.9	713.9

(END OF REPORT)