

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-PP3-150U-075D-927-1D-UNV-STD-W-4

Issue Date: 8/1/2024

Test Information

Test Method: LM-79-2019
Report Number:
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25)
Test Lab: INNOVATION CENTER
Issue Date: 8/1/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-PP3-150U-075D-927-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

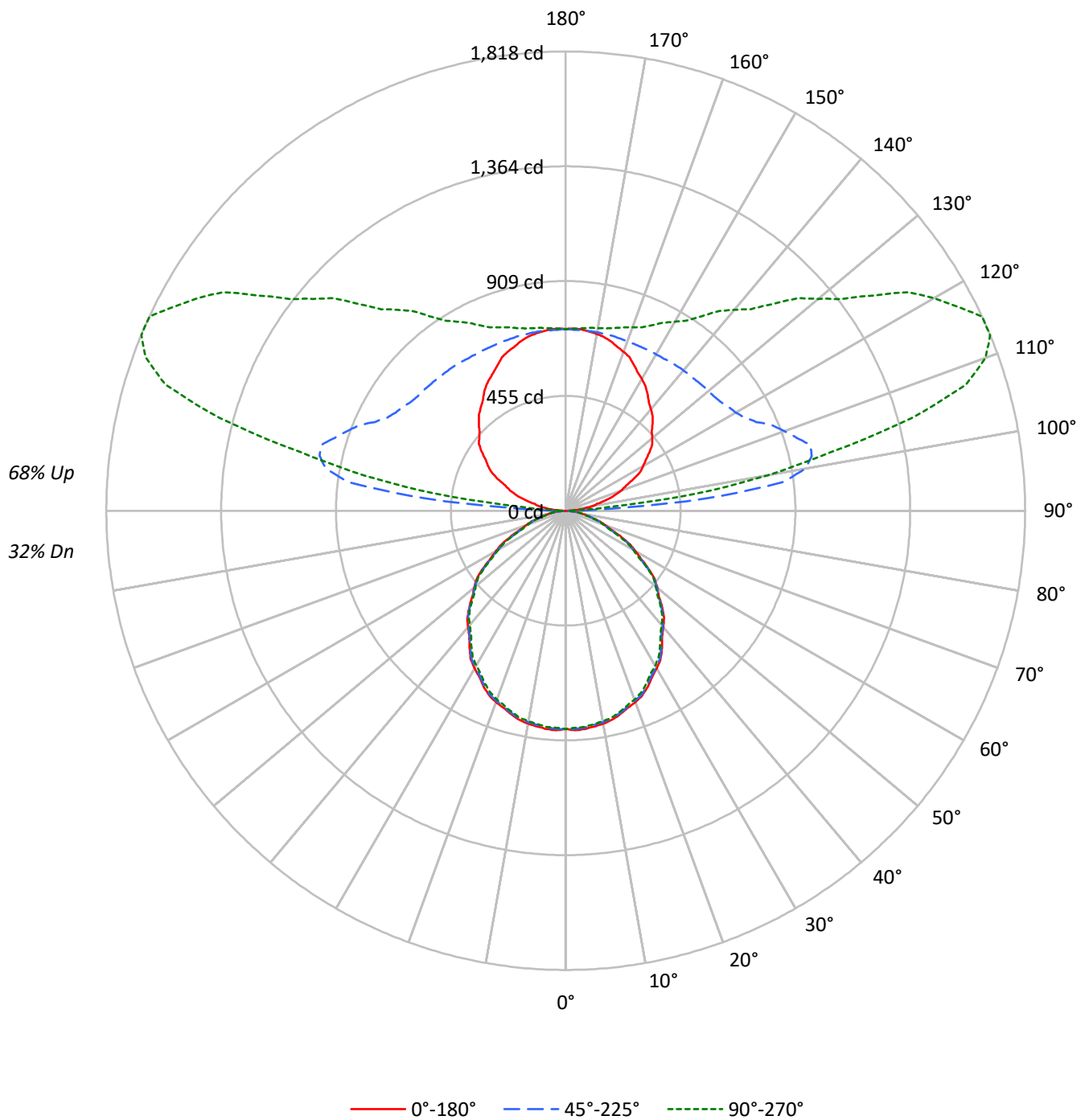
Lumens per Lamp: N/A
Luminaire Lumens: 6852.3 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

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

TEST NUMBER:

CATALOG NUMBER: SQ4-PP3-150U-075D-927-1D-UNV-STD-W-4

Luminous Intensity Polar Plot



TEST NUMBER:

CATALOG NUMBER: SQ4-PP3-150U-075D-927-1D-UNV-STD-W-4

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	84	81	78	75	65	62	60	49	48	47	35	35	34
2	86	79	73	68	77	71	66	62	57	53	50	43	41	39	31	30	29
3	78	69	62	56	70	62	56	52	50	46	42	38	36	33	28	26	25
4	71	61	53	48	64	55	49	44	44	40	36	34	31	28	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	21	20	18	16
7	56	44	36	31	50	40	33	28	32	27	24	25	22	19	19	16	14
8	51	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	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7975	7975	7975
5°	8033	7984	7957
10°	8020	7963	7928
15°	7967	7924	7880
20°	7915	7869	7810
25°	7820	7766	7689
30°	7676	7635	7538
35°	7474	7424	7330
40°	7236	7190	7108
45°	7038	6988	6919
50°	6785	6742	6677
55°	6434	6349	6301
60°	5857	5689	5661
65°	5161	4945	4929
70°	4456	4270	4270
75°	3836	3782	3725
80°	3379	3422	3342
85°	2646	2890	2890

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7038 cd/sqm

TEST NUMBER:

CATALOG NUMBER: SQ4-PP3-150U-075D-927-1D-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.7	1.2
10°-20°	233.4	3.4
20°-30°	349.6	5.1
30°-40°	410.0	6.0
40°-50°	411.3	6.0
50°-60°	350.9	5.1
60°-70°	228.8	3.3
70°-80°	114.8	1.7
80°-90°	33.3	0.5
90°-100°	334.3	4.9
100°-110°	904.0	13.2
110°-120°	950.4	13.9
120°-130°	772.0	11.3
130°-140°	605.6	8.8
140°-150°	464.8	6.8
150°-160°	334.3	4.9
160°-170°	204.2	3.0
170°-180°	68.8	1.0
0°-30°	664.7	9.7
0°-40°	1074.7	15.7
0°-60°	1837.0	26.8
0°-90°	2213.9	32.3
90°-120°	2188.8	31.9
90°-150°	4031.1	58.8
90°-180°	4638.0	67.7
0°-180°	6852.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	864	864	864	864	864	
5°	867	859	862	859	859	82
15°	834	826	830	826	825	235
25°	768	759	763	756	755	353
35°	664	657	659	652	651	415
45°	539	536	536	530	530	415
55°	400	398	395	392	392	355
65°	236	232	226	225	226	236
75°	108	108	106	105	104	117
85°	25	27	27	27	27	29
90°	2	5	10	11	10	4
95°	52	182	556	288	171	54
105°	168	260	1003	1479	1419	177
115°	296	362	832	1610	1818	292
125°	405	464	750	1265	1486	361
135°	486	543	730	1021	1156	375
145°	564	607	719	874	941	353
155°	637	662	713	784	810	294
165°	694	701	716	744	748	195
175°	720	719	717	726	725	68
180°	719	719	719	719	719	

TEST NUMBER:

CATALOG NUMBER: SQ4-PP3-150U-075D-927-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	864.4	864.4	864.4	864.4	864.4
2.5°	869.9	862.7	864.4	863.1	859.6
5°	867.4	859.3	862.1	859.1	859.1
7.5°	861.5	852.6	855.5	852.4	852.3
10°	856.1	847.2	850.0	847.0	846.2
12.5°	848.2	839.3	842.7	839.1	838.9
15°	834.1	825.9	829.6	826.5	825.0
17.5°	818.2	809.3	813.6	809.4	808.8
20°	806.1	797.2	801.5	795.5	795.5
22.5°	791.5	782.6	787.6	779.7	779.7
25°	768.2	759.3	762.9	756.0	755.3
27.5°	740.5	731.7	735.5	727.7	727.6
30°	720.5	712.3	716.7	708.3	707.6
32.5°	698.6	691.1	694.2	685.9	685.2
35°	663.6	657.0	659.1	651.5	650.8
37.5°	626.8	620.0	622.4	615.9	615.6
40°	600.8	596.3	597.0	591.6	590.2
42.5°	576.5	571.5	572.1	566.8	566.5
45°	539.4	535.7	535.6	530.3	530.3
47.5°	500.0	497.2	496.4	492.0	491.8
50°	472.7	470.5	469.7	465.9	465.2
52.5°	444.2	443.2	440.6	437.4	437.3
55°	400.0	398.5	394.7	392.4	391.7
57.5°	352.0	349.0	344.7	341.4	342.0
60°	317.4	314.5	308.3	306.8	306.8
62.5°	284.1	280.5	274.4	272.3	273.5
65°	236.4	231.9	226.5	225.0	225.8
67.5°	193.0	189.0	183.2	183.2	182.6
70°	165.2	162.9	158.3	158.3	158.3
72.5°	140.3	139.3	135.9	135.9	135.3
75°	107.6	107.6	106.1	105.3	104.5
77.5°	80.6	80.9	80.2	79.4	78.0
80°	63.6	65.1	64.4	63.6	62.9
82.5°	47.9	49.4	49.2	47.9	47.7
85°	25.0	27.2	27.3	27.3	27.3
87.5°	7.0	10.0	11.7	11.9	12.3
90°	1.5	4.6	10.1	10.8	10.1
92.5°	22.0	80.1	158.1	68.6	49.7
95°	51.9	182.1	556.0	287.8	171.1
97.5°	83.3	208.9	866.7	717.3	526.8
100°	106.9	219.7	963.4	1004.7	812.4
102.5°	128.6	234.7	997.4	1222.6	1078.8
105°	168.0	259.7	1002.9	1479.3	1418.7
107.5°	204.6	288.2	959.0	1639.4	1659.6
110°	233.1	308.8	920.0	1682.4	1768.0

TEST NUMBER:

CATALOG NUMBER: SQ4-PP3-150U-075D-927-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	258.5	329.4	884.1	1673.8	1817.5
115°	295.8	361.7	831.7	1610.1	1817.5
117.5°	332.4	394.2	797.2	1512.7	1747.9
120°	354.7	415.3	776.7	1442.8	1682.8
122.5°	375.7	435.1	764.3	1367.8	1609.7
125°	405.0	464.1	749.6	1265.0	1486.1
127.5°	432.0	490.0	741.0	1181.1	1375.5
130°	446.8	506.7	737.2	1129.2	1304.9
132.5°	462.3	521.5	733.5	1082.4	1244.2
135°	485.6	543.1	729.5	1021.4	1156.2
137.5°	508.9	563.3	726.1	971.9	1081.7
140°	525.1	575.8	724.9	940.0	1037.7
142.5°	540.5	588.2	722.4	911.3	996.8
145°	564.5	607.0	719.4	874.3	940.9
147.5°	586.4	623.9	716.0	840.8	892.0
150°	602.5	635.8	714.8	822.6	863.5
152.5°	617.4	646.4	714.2	805.7	839.3
155°	637.3	662.3	713.2	784.3	810.0
157.5°	658.1	675.5	713.4	769.4	786.3
160°	669.9	684.3	714.0	760.0	772.1
162.5°	679.2	691.1	714.6	752.5	761.6
165°	693.9	700.7	716.3	744.3	748.1
167.5°	703.9	708.6	716.5	737.3	739.1
170°	710.1	712.4	717.1	734.1	734.1
172.5°	715.1	715.5	717.1	730.4	729.8
175°	720.2	719.4	717.1	726.4	724.9
177.5°	721.9	720.1	717.0	723.1	721.3
180°	719.4	719.4	719.4	719.4	719.4

(END OF REPORT)