

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-WB-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-WB-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

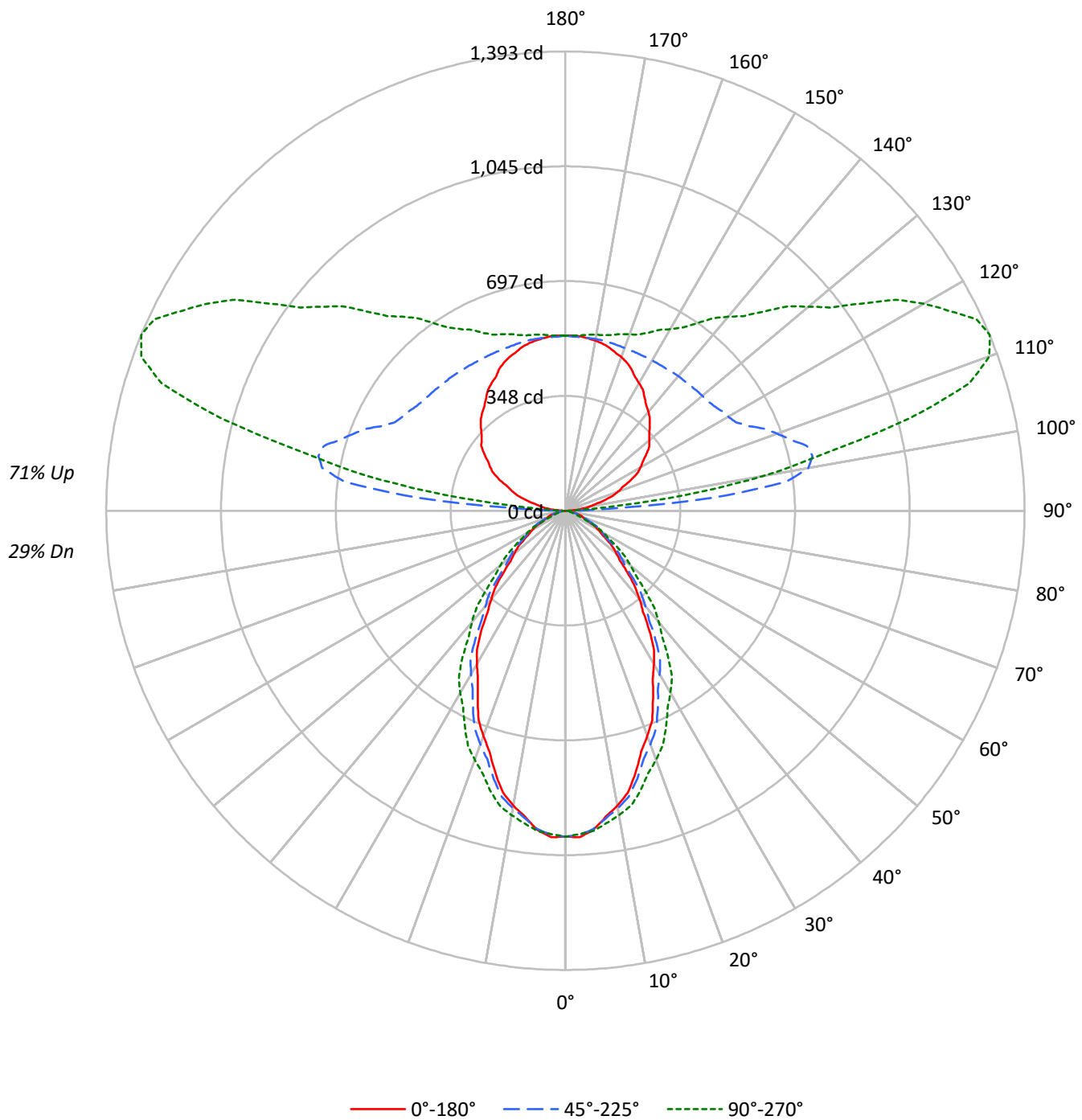
Lumens per Lamp: N/A
Luminaire Lumens: 4899.7 lumens
Efficiency: N/A
Efficacy: 72.1 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

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

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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	92	92	92	92	72	72	72	54	54	54	37	37	37
1	94	90	86	83	84	81	78	75	64	62	60	48	47	46	34	33	33
2	86	79	74	69	77	71	67	63	57	54	51	43	41	39	31	30	29
3	79	70	64	58	71	63	58	53	51	47	44	39	36	34	28	26	25
4	72	63	55	50	65	57	50	46	45	41	38	35	32	30	25	24	22
5	67	56	49	43	60	51	44	40	41	36	33	32	29	26	23	21	20
6	62	50	43	38	55	46	39	35	37	32	29	29	26	23	21	19	18
7	57	46	38	33	51	42	35	31	34	29	26	26	23	21	20	18	16
8	53	42	34	29	48	38	32	27	31	26	23	24	21	19	18	16	15
9	49	38	31	26	44	35	29	24	28	24	21	23	19	17	17	15	13
10	46	35	28	24	42	32	26	22	26	22	19	21	18	16	16	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6081	6081	6081
5°	6005	5984	6018
10°	5673	5725	5857
15°	5237	5358	5599
20°	4756	4935	5261
25°	4265	4498	4901
30°	3814	4064	4529
35°	3335	3576	4088
40°	2807	3030	3539
45°	2316	2516	2954
50°	1934	2109	2461
55°	1642	1809	2033
60°	1404	1568	1623
65°	1118	1320	1048
70°	991	1030	640
75°	917	834	392
80°	847	769	337
85°	762	706	275

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 2954 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.7	1.9
10°-20°	235.9	4.8
20°-30°	305.5	6.2
30°-40°	299.2	6.1
40°-50°	229.0	4.7
50°-60°	152.6	3.1
60°-70°	83.3	1.7
70°-80°	34.7	0.7
80°-90°	11.2	0.2
90°-100°	250.3	5.1
100°-110°	688.7	14.1
110°-120°	710.9	14.5
120°-130°	569.6	11.6
130°-140°	447.4	9.1
140°-150°	342.8	7.0
150°-160°	246.5	5.0
160°-170°	150.7	3.1
170°-180°	50.8	1.0
0°-30°	632.0	12.9
0°-40°	931.2	19.0
0°-60°	1312.7	26.8
0°-90°	1441.9	29.4
90°-120°	1650.0	33.7
90°-150°	3009.8	61.4
90°-180°	3458.0	70.6
0°-180°	4899.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	989	989	989	989	989	
5°	972	963	969	971	975	90
15°	822	820	842	864	879	230
25°	628	630	663	692	722	289
35°	444	446	476	508	544	276
45°	266	271	289	311	340	208
55°	153	160	169	175	190	139
65°	77	83	91	79	72	80
75°	39	39	35	24	16	41
85°	11	11	10	6	4	12
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:

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	988.6	988.6	988.6	988.6	988.6
2.5°	991.0	982.2	984.4	984.4	981.6
5°	972.5	962.8	969.1	971.3	974.7
7.5°	936.4	929.1	940.5	949.0	955.9
10°	908.3	902.0	916.6	928.9	937.8
12.5°	875.7	870.4	888.5	905.0	916.7
15°	822.4	819.5	841.5	864.4	879.3
17.5°	765.4	764.0	789.3	816.0	835.0
20°	726.6	726.2	753.9	781.7	803.8
22.5°	687.4	688.3	717.5	746.4	771.5
25°	628.5	630.2	662.8	691.7	722.2
27.5°	574.1	574.9	608.6	639.1	671.7
30°	537.0	539.1	572.2	603.7	637.7
32.5°	499.9	502.3	534.7	567.3	601.9
35°	444.2	446.3	476.3	508.3	544.4
37.5°	386.8	389.6	416.3	446.6	482.0
40°	349.6	353.9	377.4	405.9	440.7
42.5°	313.9	319.1	340.9	368.0	399.4
45°	266.3	271.4	289.3	311.2	339.6
47.5°	225.4	231.2	245.0	263.9	288.1
50°	202.1	207.7	220.4	234.3	257.2
52.5°	181.7	187.2	198.5	209.3	228.8
55°	153.1	159.5	168.7	175.1	189.6
57.5°	129.7	135.8	143.1	146.0	154.8
60°	114.1	120.9	127.5	127.2	131.9
62.5°	99.9	105.6	112.3	107.7	107.9
65°	76.8	83.1	90.7	79.2	72.0
67.5°	62.0	63.4	71.1	55.2	46.7
70°	55.1	55.1	57.3	42.8	35.6
72.5°	48.5	48.5	46.5	34.8	27.2
75°	38.6	38.6	35.1	24.1	16.5
77.5°	29.8	29.4	26.9	18.0	12.0
80°	23.9	23.9	21.7	14.2	9.5
82.5°	18.7	18.7	16.8	11.1	7.1
85°	10.8	10.8	10.0	6.4	3.9
87.5°	4.0	4.7	5.1	4.1	3.8
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

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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)