

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-125D-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-125D-927-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

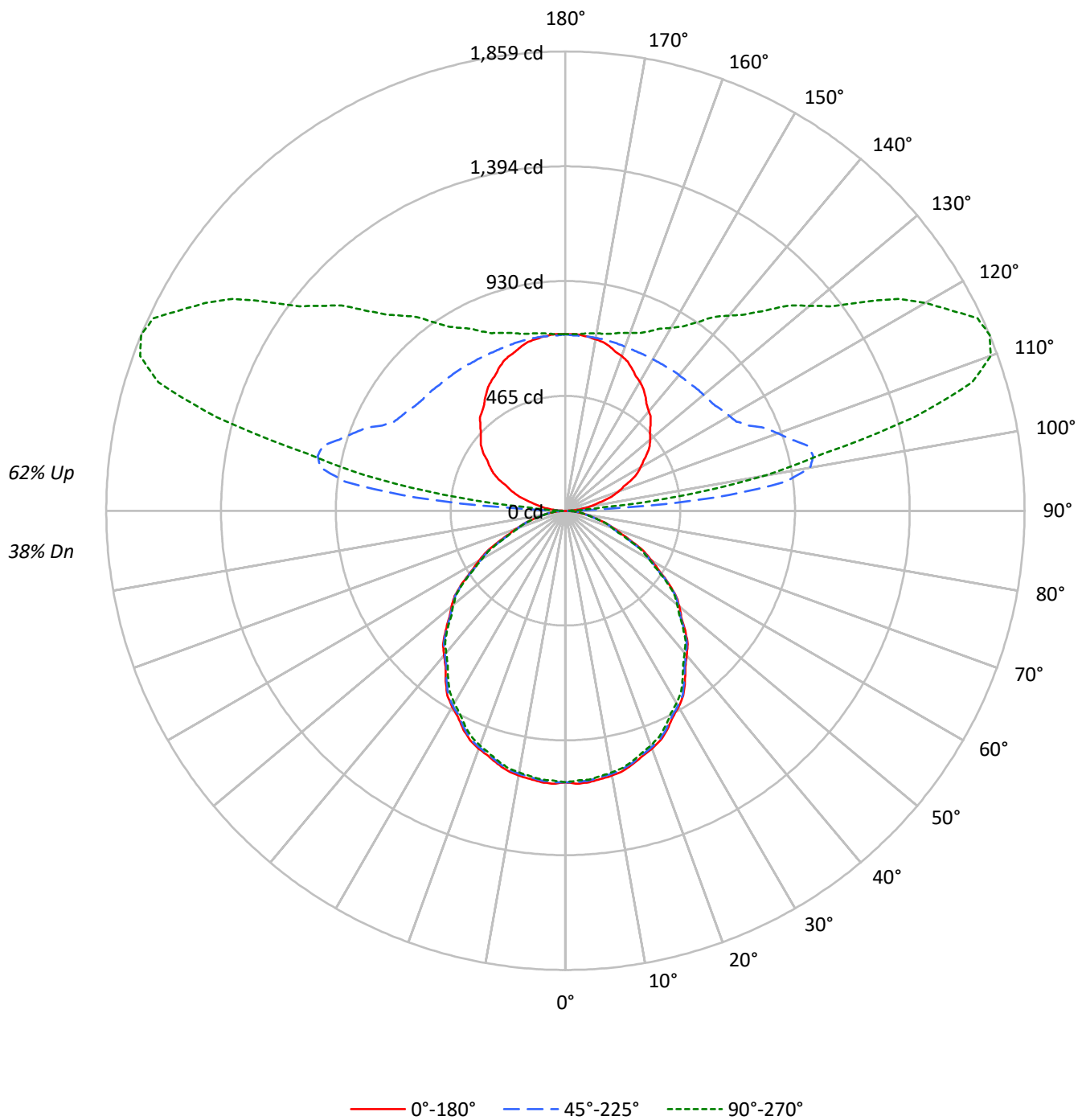
Lumens per Lamp: N/A
Luminaire Lumens: 7453.8 lumens
Efficiency: N/A
Efficacy: 69.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 107.3
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				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45
1	95	91	87	84	86	83	80	77	67	65	63	53	52	50	40	39	38
2	87	80	74	69	79	72	67	63	59	55	52	47	44	42	35	34	32
3	79	70	63	57	72	64	58	53	52	48	44	41	38	36	31	29	28
4	72	62	54	48	65	57	50	45	46	41	38	37	33	31	28	26	24
5	66	55	47	41	60	50	44	38	41	36	32	33	29	27	25	23	21
6	61	49	41	36	55	45	38	33	37	32	28	30	26	23	23	20	18
7	56	45	37	31	51	41	34	29	34	29	25	27	23	20	21	18	16
8	52	40	33	28	47	37	30	26	31	26	22	25	21	18	19	17	15
9	49	37	29	24	44	34	27	23	28	23	20	23	19	16	18	15	13
10	45	34	27	22	41	31	25	20	26	21	18	21	17	15	16	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6762	6762	6762
5°	6811	6769	6745
10°	6800	6751	6721
15°	6754	6717	6681
20°	6710	6672	6621
25°	6630	6584	6519
30°	6507	6473	6391
35°	6337	6294	6214
40°	6134	6096	6026
45°	5966	5925	5866
50°	5753	5716	5660
55°	5455	5382	5341
60°	4966	4823	4800
65°	4375	4193	4178
70°	3777	3622	3622
75°	3251	3206	3161
80°	2866	2901	2834
85°	2244	2449	2449

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5966 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.9	1.4
10°-20°	296.8	4.0
20°-30°	444.6	6.0
30°-40°	521.4	7.0
40°-50°	523.1	7.0
50°-60°	446.2	6.0
60°-70°	291.0	3.9
70°-80°	146.0	2.0
80°-90°	41.9	0.6
90°-100°	334.3	4.5
100°-110°	923.0	12.4
110°-120°	951.9	12.8
120°-130°	765.0	10.3
130°-140°	601.2	8.1
140°-150°	461.1	6.2
150°-160°	331.4	4.4
160°-170°	202.6	2.7
170°-180°	68.3	0.9
0°-30°	845.3	11.3
0°-40°	1366.8	18.3
0°-60°	2336.0	31.3
0°-90°	2815.0	37.8
90°-120°	2209.3	29.6
90°-150°	4036.5	54.2
90°-180°	4639.0	62.2
0°-180°	7453.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1099	1099	1099	1099	1099	
5°	1103	1093	1096	1092	1092	105
15°	1061	1050	1055	1051	1049	299
25°	977	966	970	962	960	449
35°	844	836	838	828	828	527
45°	686	681	681	674	674	528
55°	509	507	502	499	498	452
65°	301	295	288	286	287	300
75°	137	137	135	134	133	148
85°	32	35	35	35	35	37
90°	2	4	9	10	11	5
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:

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1099.3	1099.3	1099.3	1099.3	1099.3
2.5°	1106.2	1097.1	1099.3	1097.6	1093.1
5°	1103.1	1092.7	1096.4	1092.5	1092.5
7.5°	1095.6	1084.3	1087.9	1084.0	1083.8
10°	1088.7	1077.3	1080.9	1077.1	1076.1
12.5°	1078.6	1067.3	1071.7	1067.1	1066.9
15°	1060.7	1050.4	1054.9	1051.0	1049.2
17.5°	1040.5	1029.2	1034.7	1029.3	1028.5
20°	1025.1	1013.8	1019.3	1011.6	1011.6
22.5°	1006.6	995.3	1001.6	991.5	991.5
25°	976.9	965.6	970.2	961.5	960.5
27.5°	941.6	930.5	935.3	925.4	925.3
30°	916.2	905.8	911.4	900.8	899.8
32.5°	888.5	878.8	882.9	872.3	871.3
35°	843.9	835.5	838.2	828.5	827.6
37.5°	797.1	788.5	791.5	783.2	782.9
40°	764.0	758.3	759.2	752.4	750.5
42.5°	733.2	726.7	727.6	720.8	720.4
45°	685.9	681.2	681.1	674.4	674.4
47.5°	635.9	632.3	631.2	625.6	625.4
50°	601.2	598.3	597.3	592.5	591.5
52.5°	564.9	563.6	560.3	556.3	556.1
55°	508.7	506.8	501.9	499.0	498.1
57.5°	447.6	443.8	438.4	434.1	434.9
60°	403.7	399.9	392.1	390.2	390.2
62.5°	361.3	356.8	348.9	346.3	347.8
65°	300.6	294.9	288.1	286.2	287.1
67.5°	245.5	240.4	233.0	232.9	232.2
70°	210.0	207.2	201.4	201.4	201.4
72.5°	178.4	177.1	172.8	172.8	172.1
75°	136.8	136.8	134.9	133.9	133.0
77.5°	102.5	102.9	101.9	100.9	99.2
80°	80.9	82.8	81.9	80.9	80.0
82.5°	60.9	62.8	62.6	60.9	60.7
85°	31.8	34.6	34.7	34.7	34.7
87.5°	8.9	12.4	14.2	14.4	15.4
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:

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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)