

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-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 (G3-1910-536-23)
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-4
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

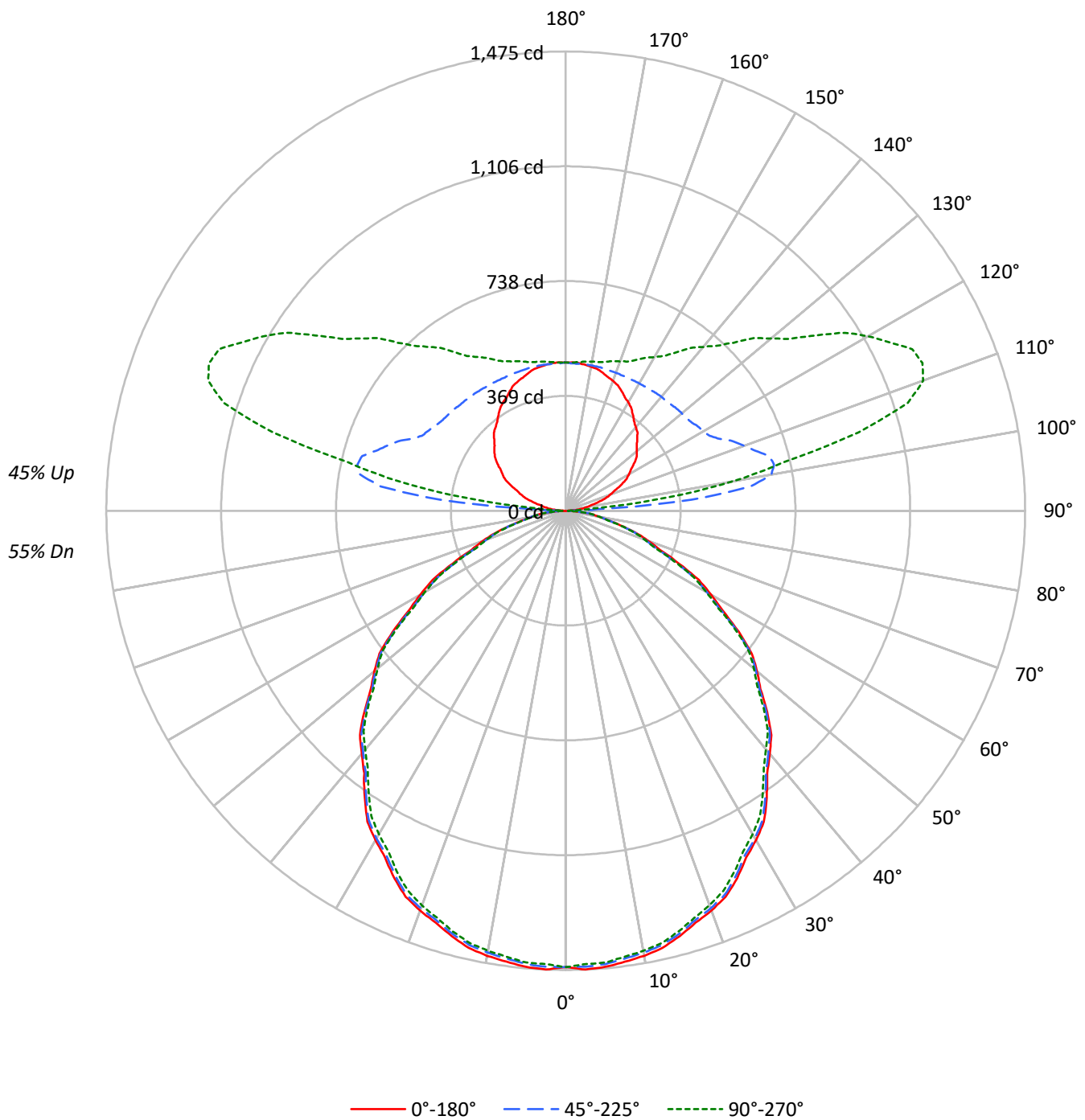
Lumens per Lamp: N/A
Luminaire Lumens: 6844.8 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 68.7
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	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61
1	99	95	91	88	92	88	85	82	76	73	71	64	63	61	54	53	52
2	90	83	77	72	84	77	72	68	67	63	59	57	54	51	48	46	44
3	83	73	66	60	76	68	62	57	59	54	50	50	47	44	42	40	37
4	76	65	57	51	70	61	54	48	52	47	43	45	41	37	38	35	32
5	69	58	50	44	64	54	47	41	47	41	37	40	36	33	34	31	28
6	64	52	44	38	59	49	41	36	42	37	32	37	32	29	31	28	25
7	59	47	39	33	55	44	37	32	38	33	28	33	29	25	28	25	22
8	55	43	35	30	51	40	33	28	35	29	25	30	26	23	26	22	20
9	51	39	31	26	48	37	30	25	32	27	23	28	23	20	24	21	18
10	48	36	28	24	44	34	27	23	30	24	20	26	21	18	22	19	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13523	13523	13523
5°	13622	13538	13491
10°	13598	13503	13442
15°	13509	13435	13362
20°	13420	13344	13243
25°	13259	13168	13038
30°	13014	12946	12782
35°	12674	12588	12428
40°	12268	12191	12052
45°	11934	11850	11733
50°	11506	11431	11321
55°	10909	10764	10682
60°	9931	9647	9599
65°	8750	8385	8357
70°	7553	7243	7243
75°	6502	6409	6320
80°	5733	5802	5664
85°	4488	4891	4891

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11934 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.6	2.0
10°-20°	395.7	5.8
20°-30°	592.7	8.7
30°-40°	695.3	10.2
40°-50°	697.4	10.2
50°-60°	595.0	8.7
60°-70°	388.0	5.7
70°-80°	194.7	2.8
80°-90°	54.9	0.8
90°-100°	222.9	3.3
100°-110°	615.3	9.0
110°-120°	634.6	9.3
120°-130°	510.0	7.5
130°-140°	400.8	5.9
140°-150°	307.4	4.5
150°-160°	220.9	3.2
160°-170°	135.1	2.0
170°-180°	45.5	0.7
0°-30°	1127.1	16.5
0°-40°	1822.3	26.6
0°-60°	3114.7	45.5
0°-90°	3752.3	54.8
90°-120°	1472.8	21.5
90°-150°	2691.0	39.3
90°-180°	3093.0	45.2
0°-180°	6844.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1466	1466	1466	1466	1466	
5°	1471	1457	1462	1457	1457	140
15°	1414	1400	1407	1401	1399	399
25°	1302	1288	1294	1282	1281	599
35°	1125	1114	1118	1105	1103	703
45°	915	908	908	899	899	704
55°	678	676	669	665	664	603
65°	401	393	384	382	383	400
75°	182	182	180	178	177	198
85°	42	46	46	46	46	50
90°	2	3	6	7	8	4
95°	33	121	404	166	108	35
105°	110	169	677	1034	973	117
115°	196	237	545	1079	1228	193
125°	270	307	494	836	982	240
135°	324	359	480	677	764	251
145°	376	402	474	577	621	236
155°	424	438	471	518	534	195
165°	459	465	473	491	495	129
175°	476	477	474	480	479	45
180°	476	476	476	476	476	

TEST NUMBER:

CATALOG NUMBER: SQ4-PP3-100U-125D-927-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1465.7	1465.7	1465.7	1465.7	1465.7
2.5°	1474.9	1462.9	1465.7	1463.5	1457.4
5°	1470.8	1457.0	1461.8	1456.7	1456.7
7.5°	1460.8	1445.7	1450.5	1445.4	1445.1
10°	1451.5	1436.5	1441.3	1436.1	1434.8
12.5°	1438.2	1423.1	1428.9	1422.8	1422.5
15°	1414.3	1400.5	1406.6	1401.4	1398.9
17.5°	1387.3	1372.2	1379.6	1372.4	1371.4
20°	1366.8	1351.7	1359.1	1348.8	1348.8
22.5°	1342.1	1327.0	1335.4	1322.1	1322.1
25°	1302.5	1287.5	1293.5	1281.9	1280.7
27.5°	1255.5	1240.7	1247.0	1233.9	1233.7
30°	1221.6	1207.8	1215.2	1201.0	1199.8
32.5°	1184.6	1171.8	1177.2	1163.0	1161.7
35°	1125.3	1114.0	1117.6	1104.7	1103.4
37.5°	1062.8	1051.3	1055.4	1044.3	1043.8
40°	1018.6	1011.1	1012.2	1003.2	1000.7
42.5°	977.5	969.0	970.1	961.1	960.6
45°	914.6	908.3	908.2	899.2	899.2
47.5°	847.8	843.0	841.6	834.2	833.9
50°	801.6	797.8	796.4	790.0	788.7
52.5°	753.3	751.5	747.1	741.7	741.4
55°	678.2	675.7	669.2	665.4	664.1
57.5°	596.8	591.8	584.5	578.8	579.8
60°	538.2	533.2	522.8	520.2	520.2
62.5°	481.7	475.7	465.3	461.7	463.7
65°	400.8	393.2	384.1	381.5	382.8
67.5°	327.3	320.5	310.6	310.6	309.6
70°	280.0	276.3	268.5	268.5	268.5
72.5°	237.9	236.1	230.4	230.4	229.4
75°	182.4	182.4	179.8	178.5	177.3
77.5°	136.7	137.2	135.9	134.6	132.3
80°	107.9	110.4	109.2	107.9	106.6
82.5°	81.2	83.7	83.5	81.2	80.9
85°	42.4	46.2	46.2	46.2	46.2
87.5°	11.6	15.9	17.7	17.8	19.0
90°	1.5	3.0	6.1	6.9	7.6
92.5°	13.7	56.9	101.7	37.1	28.9
95°	32.7	120.6	404.4	166.2	108.1
97.5°	54.2	135.1	599.0	461.2	334.0
100°	70.1	143.8	670.9	675.7	549.1
102.5°	85.3	153.6	684.9	834.8	714.8
105°	109.7	169.2	677.0	1033.6	973.2
107.5°	135.6	188.6	639.2	1129.4	1151.4
110°	153.8	201.5	610.0	1150.0	1221.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	170.3	216.1	582.6	1133.7	1239.2
115°	196.5	237.4	545.3	1079.4	1227.6
117.5°	219.3	260.1	520.7	1003.0	1171.6
120°	234.6	274.8	511.0	951.2	1121.0
122.5°	249.2	287.6	503.1	902.9	1063.7
125°	269.6	306.8	494.2	836.4	981.6
127.5°	286.9	324.2	489.1	780.2	905.5
130°	298.5	335.8	486.6	745.9	859.8
132.5°	309.5	344.9	484.2	717.0	820.2
135°	324.4	359.4	480.5	677.4	763.8
137.5°	341.2	373.0	478.7	644.3	718.0
140°	350.3	381.6	477.5	622.1	686.9
142.5°	360.7	389.6	476.3	602.5	659.5
145°	376.2	402.3	474.4	576.7	620.7
147.5°	391.1	413.9	472.8	555.0	589.1
150°	402.1	420.7	472.2	542.1	569.6
152.5°	410.6	428.0	471.5	531.0	553.8
155°	424.2	438.3	470.6	517.5	533.8
157.5°	436.7	447.5	470.8	507.6	518.8
160°	444.0	453.7	471.4	502.0	510.2
162.5°	450.1	458.6	472.0	497.1	503.5
165°	459.2	465.2	472.9	491.3	495.0
167.5°	466.2	469.8	473.7	487.7	488.9
170°	469.9	472.8	473.7	485.9	485.9
172.5°	472.9	474.7	473.7	483.4	482.8
175°	476.0	476.7	473.7	480.5	479.0
177.5°	477.2	476.6	473.5	477.8	476.6
180°	476.0	476.0	476.0	476.0	476.0

(END OF REPORT)