

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-PP3-025U-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 (G3-1910-536-32)
Test Lab: INNOVATION CENTER
Issue Date: 8/1/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-PP3-025U-125D-927-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

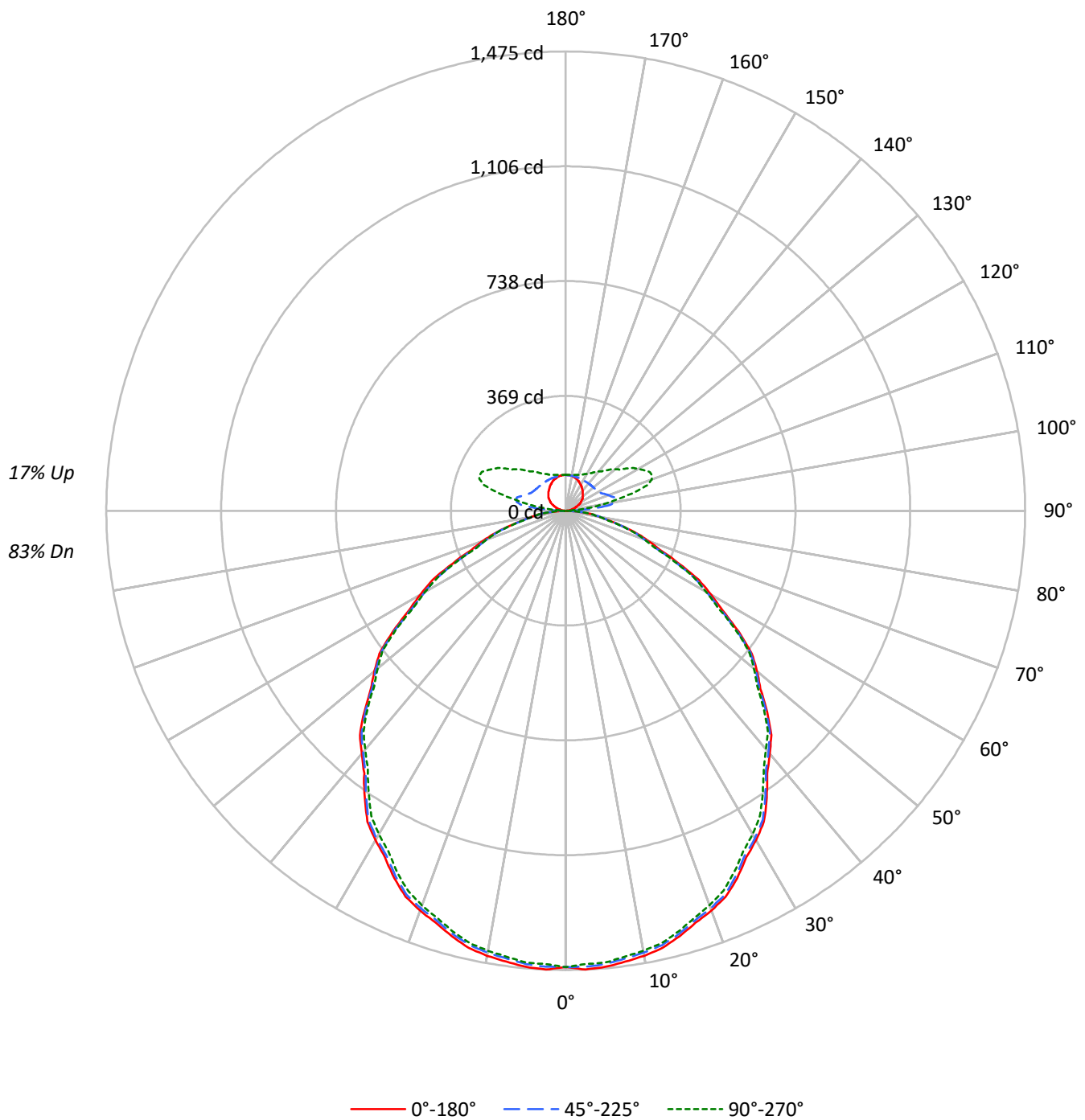
Lumens per Lamp: N/A
Luminaire Lumens: 4495.7 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 49.5
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

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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	115	115	115	115	111	111	111	111	102	102	102	94	94	94	87	87	87
1	106	101	97	94	101	97	94	91	90	87	85	84	81	79	77	76	74
2	96	89	82	77	92	86	80	75	79	75	71	74	70	67	68	66	63
3	88	78	71	65	84	76	69	63	70	65	60	65	61	57	61	57	54
4	81	70	61	55	77	67	60	54	63	56	51	58	53	49	55	50	47
5	74	62	54	48	71	60	52	47	56	50	45	53	47	43	49	45	41
6	69	56	48	42	66	54	46	41	51	44	39	48	42	37	45	40	36
7	64	51	43	37	61	49	42	36	46	40	35	44	38	33	41	36	32
8	59	46	38	33	57	45	37	32	42	36	31	40	34	30	38	33	29
9	55	43	35	29	53	41	34	29	39	32	28	37	31	27	35	30	26
10	52	39	32	27	50	38	31	26	36	30	25	34	28	24	32	27	24

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	3.1
10°-20°	395.7	8.8
20°-30°	592.7	13.2
30°-40°	695.3	15.5
40°-50°	697.4	15.5
50°-60°	595.0	13.2
60°-70°	388.0	8.6
70°-80°	194.7	4.3
80°-90°	54.5	1.2
90°-100°	55.9	1.2
100°-110°	147.0	3.3
110°-120°	152.5	3.4
120°-130°	122.3	2.7
130°-140°	95.9	2.1
140°-150°	73.6	1.6
150°-160°	53.0	1.2
160°-170°	32.5	0.7
170°-180°	11.0	0.2
0°-30°	1127.1	25.1
0°-40°	1822.3	40.5
0°-60°	3114.7	69.3
0°-90°	3751.9	83.5
90°-120°	355.4	7.9
90°-150°	647.3	14.4
90°-180°	744.0	16.5
0°-180°	4495.7	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°	1	2	6	3	3	2
95°	7	29	96	50	34	8
105°	26	40	163	247	230	28
115°	47	57	130	260	296	46
125°	66	73	118	200	236	58
135°	78	86	115	162	183	60
145°	90	96	113	138	149	57
155°	102	105	113	124	128	47
165°	110	112	113	118	119	31
175°	115	115	114	116	116	11
180°	115	115	115	115	115	

TEST NUMBER:

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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°	11.5	15.8	17.6	17.1	18.1
90°	0.7	2.2	5.9	2.9	2.9
92.5°	3.1	14.9	33.0	14.6	9.4
95°	7.4	28.9	96.4	49.7	33.8
97.5°	12.8	31.8	144.2	114.7	84.4
100°	16.9	34.2	158.9	161.0	125.0
102.5°	20.4	36.6	163.0	200.6	169.8
105°	26.5	40.1	162.6	246.8	230.2
107.5°	32.7	45.3	153.3	270.8	274.8
110°	36.8	48.3	145.6	277.0	294.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	40.9	51.8	138.6	273.1	299.5
115°	47.1	57.1	130.2	259.8	296.4
117.5°	53.1	62.3	124.5	241.3	282.0
120°	56.6	65.3	122.1	228.9	268.5
122.5°	60.2	68.8	120.3	216.6	255.5
125°	65.5	73.4	118.4	200.2	236.1
127.5°	69.7	77.8	116.8	186.9	217.3
130°	72.1	80.7	116.2	178.6	206.7
132.5°	74.4	83.1	115.6	171.5	196.7
135°	78.0	85.9	114.7	161.6	183.2
137.5°	81.6	89.4	114.6	154.1	171.8
140°	84.6	91.8	114.0	148.2	164.8
142.5°	86.9	93.6	114.0	144.1	158.3
145°	90.5	96.2	113.3	137.8	148.6
147.5°	94.0	99.6	113.3	132.6	141.5
150°	96.4	101.4	113.3	129.6	136.8
152.5°	98.7	102.6	113.3	127.2	132.7
155°	102.2	105.1	113.3	124.4	128.0
157.5°	104.9	107.6	113.3	121.9	124.5
160°	106.7	108.8	113.3	120.7	122.1
162.5°	108.4	110.0	113.3	119.5	120.9
165°	110.3	111.8	113.3	117.7	119.2
167.5°	112.1	112.8	114.0	117.0	117.5
170°	113.3	114.0	114.0	117.0	117.0
172.5°	113.9	114.0	114.0	116.4	115.8
175°	114.7	114.7	114.0	115.5	115.5
177.5°	114.7	114.7	114.2	115.3	114.7
180°	114.7	114.7	114.7	114.7	114.7

(END OF REPORT)