

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-PC3-0U-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 ()
Test Lab: INNOVATION CENTER
Issue Date: 8/1/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-PC3-0U-125D-927-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

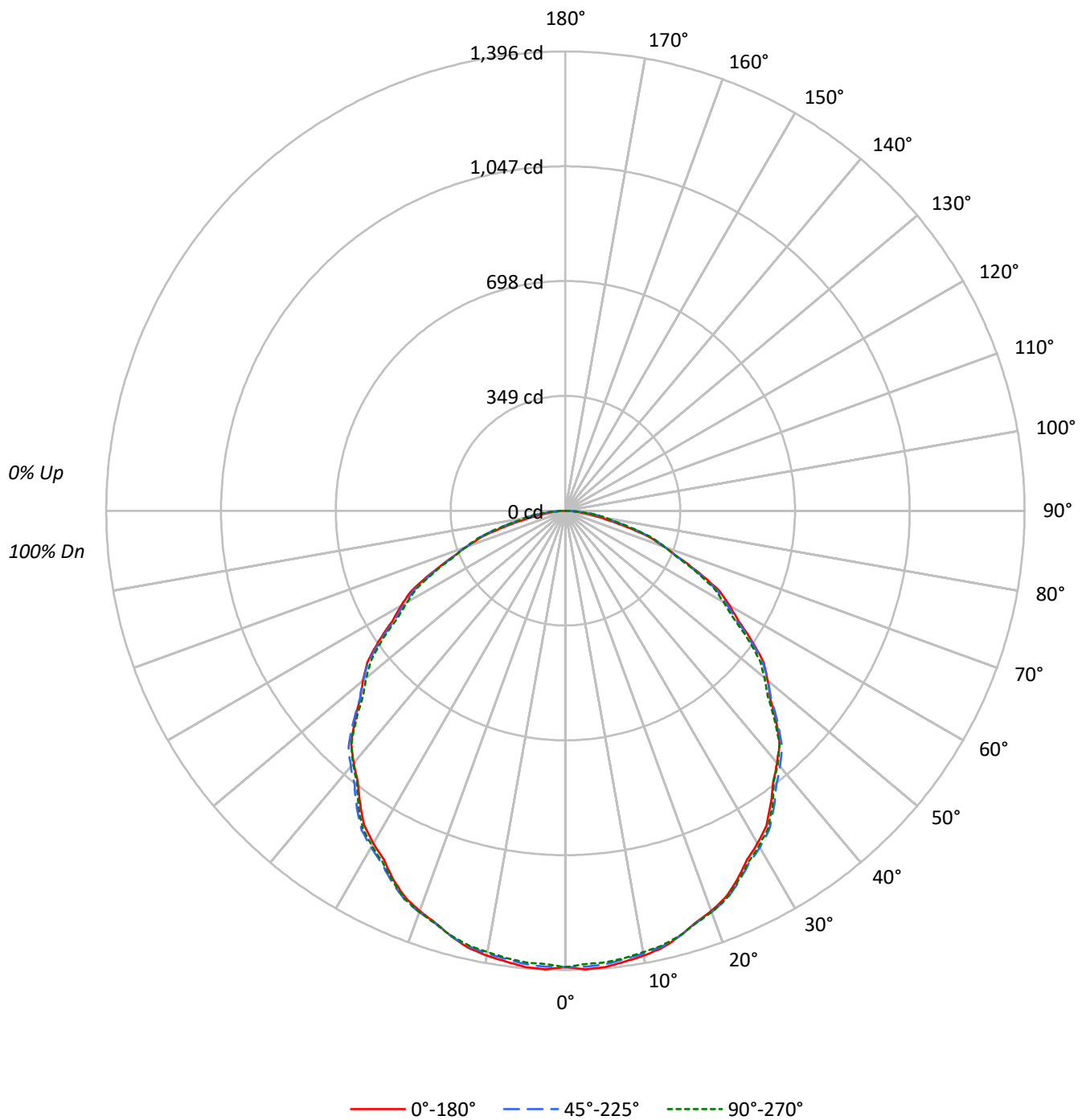
Lumens per Lamp: N/A
Luminaire Lumens: 3786.4 lumens
Efficiency: N/A
Efficacy: 86.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 43.6
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-PC3-0U-125D-927-1D-UNV-STD-W-4

Luminous Intensity Polar Plot



TEST NUMBER:

CATALOG NUMBER: SQ4-PC3-0U-125D-927-1D-UNV-STD-W-4

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	29
10	54	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12800	12800	12800
5°	12897	12813	12766
10°	12865	12805	12768
15°	12797	12797	12785
20°	12714	12751	12751
25°	12594	12684	12646
30°	12440	12590	12536
35°	12254	12442	12356
40°	12052	12222	12098
45°	11833	11917	11733
50°	11524	11524	11339
55°	11158	11014	10848
60°	10619	10405	10239
65°	9815	9619	9536
70°	8594	8662	8629
75°	6916	7646	7693
80°	4915	6482	6551
85°	2996	5441	5441

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 11917 cd/sqm

TEST NUMBER:

CATALOG NUMBER: SQ4-PC3-0U-125D-927-1D-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.3	3.5
10°-20°	376.8	10.0
20°-30°	570.6	15.1
30°-40°	684.1	18.1
40°-50°	697.5	18.4
50°-60°	608.9	16.1
60°-70°	435.9	11.5
70°-80°	224.5	5.9
80°-90°	56.8	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1078.7	28.5
0°-40°	1762.7	46.6
0°-60°	3069.1	81.1
0°-90°	3786.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3786.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1387	1387	1387	1387	1387	
5°	1392	1379	1384	1380	1378	132
15°	1340	1328	1340	1340	1338	378
25°	1237	1228	1246	1242	1242	569
35°	1088	1086	1105	1097	1097	680
45°	907	904	913	902	899	698
55°	694	685	685	674	674	618
65°	450	440	441	437	437	445
75°	194	203	214	216	216	210
85°	28	43	51	53	51	40
90°	0	0	0	0	0	

TEST NUMBER:

CATALOG NUMBER: SQ4-PC3-0U-125D-927-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1387.3	1387.3	1387.3	1387.3	1387.3
2.5°	1395.6	1383.5	1387.3	1384.2	1379.1
5°	1392.5	1378.7	1383.5	1379.6	1378.4
7.5°	1382.5	1368.7	1375.0	1372.4	1371.2
10°	1373.2	1359.4	1366.8	1364.2	1362.9
12.5°	1360.9	1348.1	1356.5	1353.9	1353.7
15°	1339.8	1328.5	1339.8	1339.8	1338.5
17.5°	1313.4	1303.1	1315.2	1315.9	1315.2
20°	1294.9	1283.6	1298.7	1297.5	1298.7
22.5°	1272.3	1263.0	1279.2	1275.9	1277.1
25°	1237.1	1228.3	1246.0	1242.2	1242.2
27.5°	1195.4	1189.2	1208.5	1204.4	1204.4
30°	1167.7	1161.4	1181.8	1176.7	1176.7
32.5°	1136.9	1132.6	1152.0	1145.8	1145.8
35°	1088.0	1085.5	1104.7	1097.0	1097.0
37.5°	1037.7	1035.4	1052.8	1043.5	1040.5
40°	1000.7	999.4	1014.8	1004.5	1004.5
42.5°	963.7	962.4	975.8	963.4	963.4
45°	906.9	904.4	913.3	901.7	899.2
47.5°	845.0	842.5	848.1	835.5	834.2
50°	802.9	800.4	802.9	791.3	790.0
52.5°	759.7	755.2	755.6	744.0	743.8
55°	693.7	684.9	684.7	674.4	674.4
57.5°	623.8	612.2	613.3	604.5	603.2
60°	575.5	562.9	563.9	556.2	554.9
62.5°	528.2	513.7	516.7	507.9	507.7
65°	449.6	439.6	440.6	436.8	436.8
67.5°	374.1	364.8	371.5	368.4	368.2
70°	318.6	312.3	321.1	321.1	319.9
72.5°	267.2	266.9	278.0	278.0	278.8
75°	194.0	202.8	214.5	215.8	215.8
77.5°	129.5	145.1	158.0	158.5	158.3
80°	92.5	110.1	122.0	124.6	123.3
82.5°	62.7	81.3	91.2	93.7	92.5
85°	28.3	43.3	51.4	52.6	51.4
87.5°	8.2	17.3	20.6	20.5	18.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)