

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-PP3-125U-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 (G3-1910-536-24)
Test Lab: INNOVATION CENTER
Issue Date: 8/1/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-PP3-125U-125D-927-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

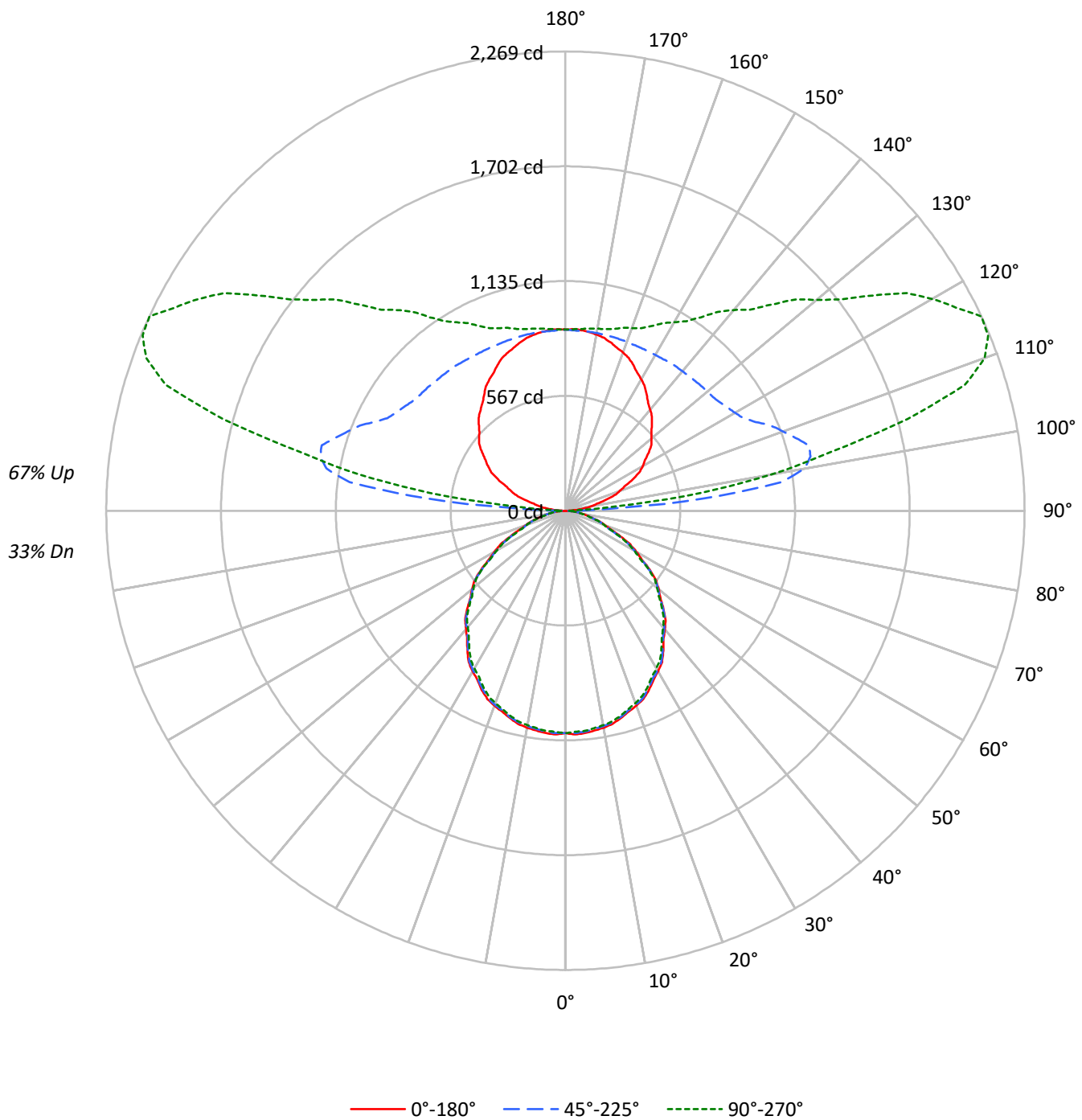
Lumens per Lamp: N/A
Luminaire Lumens: 8589.8 lumens
Efficiency: N/A
Efficacy: 73.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 117.2
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	103	103	103	103		93	93	93	93		74	74	74		56	56	56		40	40	40
1	94	90	86	83		85	81	78	75		65	63	61		50	48	47		36	35	34
2	86	79	73	68		77	71	66	62		57	53	50		44	41	39		32	30	29
3	78	69	62	56		70	63	57	52		50	46	42		39	36	33		28	26	25
4	72	61	54	48		64	55	49	44		45	40	36		34	31	29		25	23	21
5	66	54	47	41		59	49	43	37		40	35	31		31	27	25		23	20	19
6	60	49	41	35		54	44	37	32		36	31	27		28	24	22		21	18	16
7	56	44	36	31		50	40	33	28		32	27	24		25	22	19		19	16	15
8	52	40	32	27		46	36	30	25		29	24	21		23	20	17		17	15	13
9	48	36	29	24		43	33	27	22		27	22	19		21	18	15		16	13	12
10	45	33	26	21		40	30	24	20		25	20	17		20	16	14		15	12	11

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	1.2
10°-20°	296.8	3.5
20°-30°	444.6	5.2
30°-40°	521.4	6.1
40°-50°	523.1	6.1
50°-60°	446.2	5.2
60°-70°	291.0	3.4
70°-80°	146.0	1.7
80°-90°	42.5	0.5
90°-100°	418.4	4.9
100°-110°	1127.1	13.1
110°-120°	1182.9	13.8
120°-130°	959.9	11.2
130°-140°	752.8	8.8
140°-150°	578.0	6.7
150°-160°	415.6	4.8
160°-170°	253.9	3.0
170°-180°	85.6	1.0
0°-30°	845.3	9.8
0°-40°	1366.8	15.9
0°-60°	2336.0	27.2
0°-90°	2815.6	32.8
90°-120°	2728.4	31.8
90°-150°	5019.1	58.4
90°-180°	5774.0	67.2
0°-180°	8589.8	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	7	14	15	15	6
95°	64	228	686	351	243	67
105°	208	324	1246	1865	1750	219
115°	368	450	1038	2006	2269	362
125°	502	577	932	1575	1854	449
135°	605	675	906	1271	1439	467
145°	700	754	894	1087	1167	439
155°	794	823	886	975	1006	366
165°	861	871	890	925	930	243
175°	896	894	891	904	901	85
180°	894	894	894	894	894	

TEST NUMBER:

CATALOG NUMBER: SQ4-PP3-125U-125D-927-1D-UNV-STD-W-6

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	12.8	15.1	15.3	16.1
90°	2.3	6.7	13.7	14.8	14.8
92.5°	27.8	98.2	194.2	93.5	64.9
95°	63.8	227.6	685.9	350.8	242.7
97.5°	101.9	260.5	1075.8	898.8	677.7
100°	131.0	273.6	1199.8	1255.3	1041.4
102.5°	159.3	292.1	1240.8	1522.4	1346.8
105°	208.5	324.4	1246.5	1864.9	1750.2
107.5°	255.0	358.4	1193.4	2040.9	2070.6
110°	286.0	384.0	1145.1	2095.6	2203.7

TEST NUMBER:

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	318.8	409.7	1098.6	2083.5	2261.1
115°	368.0	450.5	1038.0	2005.7	2268.6
117.5°	412.9	490.2	991.1	1881.5	2174.3
120°	442.1	516.7	967.4	1792.3	2093.1
122.5°	467.6	541.4	950.1	1701.1	2001.1
125°	502.5	577.1	932.1	1575.3	1853.8
127.5°	536.0	609.5	920.7	1464.3	1713.0
130°	556.0	629.6	916.1	1400.8	1619.1
132.5°	576.1	648.7	911.5	1344.8	1545.3
135°	605.0	675.2	905.8	1270.9	1439.1
137.5°	632.6	699.9	902.9	1208.2	1346.3
140°	651.8	716.4	900.1	1169.6	1294.4
142.5°	671.8	732.0	898.3	1133.6	1238.8
145°	699.6	754.2	894.5	1086.6	1166.8
147.5°	729.7	777.2	890.6	1047.0	1110.0
150°	749.7	791.0	888.8	1022.1	1074.5
152.5°	768.0	803.8	887.8	1001.8	1044.4
155°	794.2	823.1	886.5	974.9	1006.1
157.5°	817.2	839.7	886.7	956.0	976.9
160°	831.8	850.7	887.6	944.9	960.5
162.5°	844.5	859.9	888.5	935.7	946.9
165°	861.4	871.4	889.9	925.3	929.8
167.5°	875.1	880.9	891.0	917.3	919.1
170°	884.2	886.4	891.0	912.7	912.7
172.5°	889.7	890.1	891.9	908.1	908.1
175°	895.6	894.5	891.0	903.5	901.3
177.5°	898.1	896.3	891.7	899.0	897.2
180°	894.5	894.5	894.5	894.5	894.5

(END OF REPORT)