

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-PC3-125U-075D-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-PC3-125U-075D-927-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

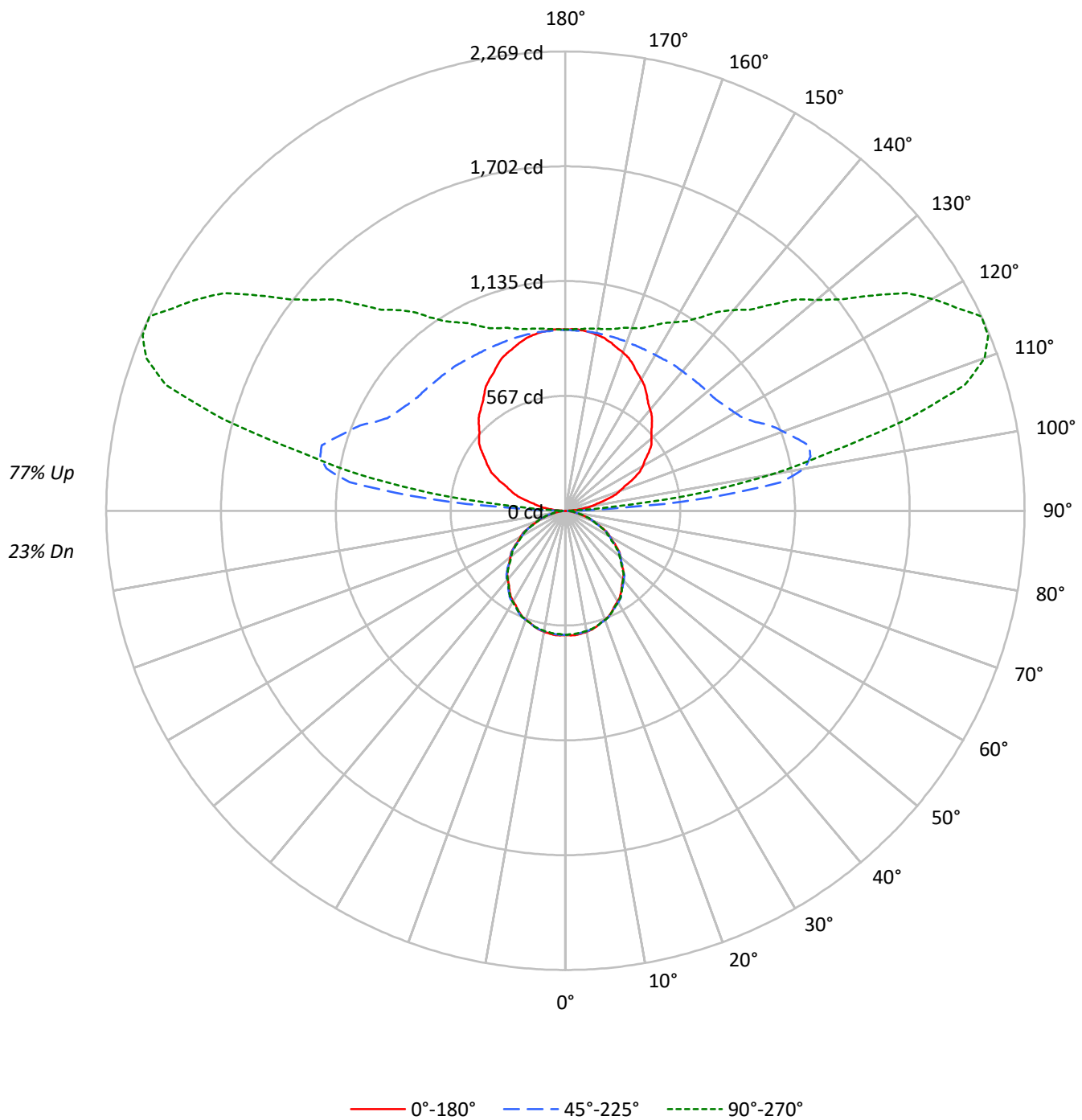
Lumens per Lamp: N/A
Luminaire Lumens: 7451.0 lumens
Efficiency: N/A
Efficacy: 84.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 87.9
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	101	101	101	101	89	89	89	89	68	68	68	49	49	49	31	31	31
1	92	88	84	80	81	78	75	72	60	57	56	43	42	40	27	27	26
2	83	76	71	66	74	68	63	59	52	49	46	37	35	34	24	23	22
3	76	67	60	55	67	60	54	49	46	42	39	33	31	28	21	20	19
4	69	59	52	46	61	53	46	41	41	36	33	29	27	24	19	17	16
5	64	52	45	39	56	47	40	35	36	32	28	26	23	21	17	15	14
6	58	47	39	34	52	42	35	30	32	28	24	24	21	18	15	14	12
7	54	42	35	29	48	38	31	27	29	25	21	21	18	16	14	12	11
8	50	38	31	26	44	34	28	23	27	22	19	19	16	14	13	11	10
9	46	35	27	23	41	31	25	21	24	20	17	18	15	13	12	10	9
10	43	32	25	20	38	28	22	18	22	18	15	16	13	11	11	9	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3774	3774	3774
5°	3803	3778	3764
10°	3794	3776	3766
15°	3774	3774	3770
20°	3749	3760	3760
25°	3714	3740	3729
30°	3668	3712	3697
35°	3614	3669	3643
40°	3554	3604	3567
45°	3489	3514	3459
50°	3398	3398	3343
55°	3290	3247	3199
60°	3132	3068	3020
65°	2895	2837	2812
70°	2534	2554	2545
75°	2039	2255	2270
80°	1449	1913	1930
85°	882	1602	1602

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 3514 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.1	0.8
10°-20°	166.7	2.2
20°-30°	252.4	3.4
30°-40°	302.6	4.1
40°-50°	308.5	4.1
50°-60°	269.3	3.6
60°-70°	192.8	2.6
70°-80°	99.3	1.3
80°-90°	27.2	0.4
90°-100°	418.4	5.6
100°-110°	1127.1	15.1
110°-120°	1182.9	15.9
120°-130°	959.9	12.9
130°-140°	752.8	10.1
140°-150°	578.0	7.8
150°-160°	415.6	5.6
160°-170°	253.9	3.4
170°-180°	85.6	1.1
0°-30°	477.1	6.4
0°-40°	779.7	10.5
0°-60°	1357.5	18.2
0°-90°	1676.8	22.5
90°-120°	2728.4	36.6
90°-150°	5019.1	67.4
90°-180°	5774.0	77.5
0°-180°	7451.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	614	614	614	614	614	
5°	616	610	612	610	610	58
15°	593	588	593	593	592	167
25°	547	543	551	549	549	252
35°	481	480	489	485	485	301
45°	401	400	404	399	398	309
55°	307	303	303	298	298	274
65°	199	194	195	193	193	197
75°	86	90	95	96	96	93
85°	12	19	23	23	23	17
90°	2	7	14	15	15	5
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:

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	613.6	613.6	613.6	613.6	613.6
2.5°	617.3	612.0	613.6	612.2	610.0
5°	615.9	609.8	611.9	610.2	609.7
7.5°	611.5	605.4	608.2	607.0	606.5
10°	607.4	601.3	604.6	603.4	602.9
12.5°	601.9	596.3	600.0	598.9	598.8
15°	592.6	587.6	592.6	592.6	592.1
17.5°	580.9	576.4	581.7	582.0	581.7
20°	572.7	567.7	574.4	573.9	574.4
22.5°	562.7	558.6	565.8	564.3	564.9
25°	547.2	543.3	551.1	549.4	549.4
27.5°	528.8	526.0	534.6	532.7	532.7
30°	516.5	513.7	522.7	520.5	520.5
32.5°	502.9	501.0	509.6	506.8	506.8
35°	481.3	480.1	488.6	485.2	485.2
37.5°	459.0	458.0	465.7	461.6	460.2
40°	442.6	442.1	448.9	444.3	444.3
42.5°	426.3	425.7	431.6	426.1	426.1
45°	401.1	400.0	404.0	398.8	397.7
47.5°	373.8	372.6	375.1	369.5	369.0
50°	355.1	354.0	355.1	350.0	349.4
52.5°	336.0	334.0	334.2	329.1	329.0
55°	306.8	302.9	302.8	298.3	298.3
57.5°	275.9	270.8	271.3	267.4	266.8
60°	254.6	249.0	249.4	246.0	245.5
62.5°	233.6	227.2	228.5	224.7	224.5
65°	198.9	194.4	194.9	193.2	193.2
67.5°	165.5	161.3	164.3	163.0	162.8
70°	140.9	138.1	142.0	142.0	141.5
72.5°	118.2	118.1	123.0	123.0	123.3
75°	85.8	89.7	94.9	95.5	95.5
77.5°	57.3	64.2	69.9	70.1	70.0
80°	40.9	48.7	54.0	55.1	54.5
82.5°	27.7	36.0	40.3	41.5	40.9
85°	12.5	19.2	22.7	23.3	22.7
87.5°	4.1	9.0	11.8	12.0	11.1
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

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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)