

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-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 (G3-1910-536-24)
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-4
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

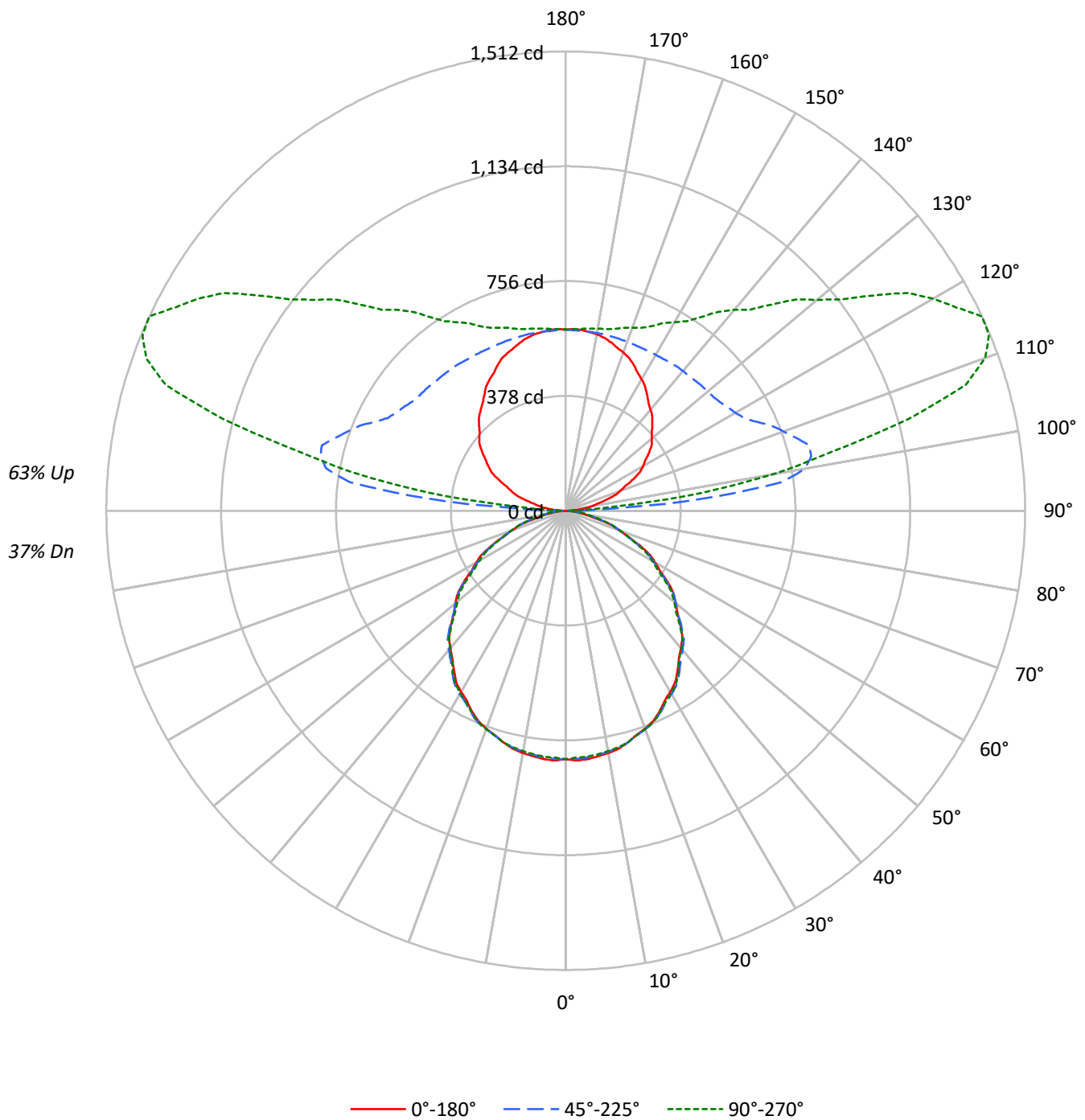
Lumens per Lamp: N/A
Luminaire Lumens: 6083.9 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 55.7
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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44
1	95	91	87	83	86	82	79	76	67	64	62	52	51	49	39	38	37
2	86	79	73	68	78	72	67	62	58	55	52	46	43	41	34	33	31
3	79	69	62	57	71	63	57	52	51	47	43	40	37	35	30	28	27
4	72	61	54	48	65	56	49	44	46	41	37	36	33	30	27	25	23
5	66	55	47	41	59	50	43	38	41	36	32	32	29	26	24	22	20
6	61	49	41	35	55	45	38	33	37	31	27	29	25	22	22	19	17
7	56	44	36	31	51	40	33	28	33	28	24	26	23	20	20	17	15
8	52	40	32	27	47	36	30	25	30	25	21	24	20	18	18	16	14
9	48	36	29	24	44	33	27	22	27	22	19	22	18	16	17	14	12
10	45	33	26	21	41	30	24	20	25	20	17	20	17	14	16	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7549	7549	7549
5°	7605	7556	7529
10°	7588	7552	7530
15°	7548	7548	7540
20°	7498	7520	7520
25°	7427	7481	7458
30°	7336	7425	7394
35°	7228	7338	7287
40°	7108	7208	7135
45°	6979	7028	6919
50°	6796	6796	6687
55°	6581	6495	6397
60°	6263	6137	6039
65°	5790	5674	5624
70°	5069	5109	5088
75°	4078	4509	4538
80°	2896	3825	3863
85°	1768	3208	3208

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 7028 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.4	1.3
10°-20°	222.2	3.7
20°-30°	336.5	5.5
30°-40°	403.4	6.6
40°-50°	411.4	6.8
50°-60°	359.1	5.9
60°-70°	257.1	4.2
70°-80°	132.4	2.2
80°-90°	34.9	0.6
90°-100°	278.9	4.6
100°-110°	751.4	12.4
110°-120°	788.6	13.0
120°-130°	639.9	10.5
130°-140°	501.9	8.2
140°-150°	385.3	6.3
150°-160°	277.0	4.6
160°-170°	169.3	2.8
170°-180°	57.1	0.9
0°-30°	636.2	10.5
0°-40°	1039.6	17.1
0°-60°	1810.0	29.8
0°-90°	2234.4	36.7
90°-120°	1819.0	29.9
90°-150°	3346.1	55.0
90°-180°	3849.0	63.3
0°-180°	6083.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	818	818	818	818	818	
5°	821	813	816	814	813	78
15°	790	784	790	790	789	223
25°	730	724	735	733	733	336
35°	642	640	652	647	647	401
45°	535	533	539	532	530	412
55°	409	404	404	398	398	365
65°	265	259	260	258	258	262
75°	114	120	126	127	127	124
85°	17	26	30	31	30	23
90°	2	4	9	10	10	4
95°	42	152	457	234	162	44
105°	139	216	831	1243	1167	146
115°	245	300	692	1337	1512	241
125°	335	385	621	1050	1236	299
135°	403	450	604	847	959	311
145°	466	503	596	724	778	293
155°	530	549	591	650	671	244
165°	574	581	593	617	620	162
175°	597	596	594	602	601	57
180°	596	596	596	596	596	

TEST NUMBER:

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	818.2	818.2	818.2	818.2	818.2
2.5°	823.0	815.9	818.2	816.3	813.3
5°	821.2	813.1	815.9	813.6	812.9
7.5°	815.3	807.2	810.9	809.4	808.7
10°	809.9	801.7	806.1	804.5	803.8
12.5°	802.6	795.0	800.0	798.5	798.3
15°	790.2	783.5	790.2	790.1	789.4
17.5°	774.6	768.5	775.6	776.1	775.6
20°	763.7	757.0	765.9	765.2	765.9
22.5°	750.3	744.8	754.4	752.5	753.2
25°	729.6	724.4	734.9	732.6	732.6
27.5°	705.0	701.3	712.7	710.3	710.3
30°	688.6	684.9	697.0	694.0	694.0
32.5°	670.5	667.9	679.4	675.8	675.8
35°	641.7	640.2	651.5	647.0	647.0
37.5°	612.0	610.6	620.9	615.4	613.6
40°	590.2	589.4	598.5	592.4	592.4
42.5°	568.3	567.6	575.5	568.2	568.2
45°	534.9	533.4	538.6	531.8	530.3
47.5°	498.3	496.9	500.2	492.7	492.0
50°	473.5	472.0	473.5	466.7	465.9
52.5°	448.0	445.4	445.6	438.8	438.6
55°	409.1	403.9	403.8	397.7	397.7
57.5°	367.9	361.1	361.7	356.5	355.8
60°	339.4	332.0	332.6	328.0	327.3
62.5°	311.5	302.9	304.7	299.5	299.4
65°	265.2	259.2	259.9	257.6	257.6
67.5°	220.6	215.1	219.1	217.3	217.1
70°	187.9	184.2	189.4	189.4	188.6
72.5°	157.6	157.4	163.9	164.0	164.4
75°	114.4	119.6	126.5	127.3	127.3
77.5°	76.4	85.6	93.2	93.5	93.3
80°	54.5	64.9	72.0	73.5	72.7
82.5°	37.0	47.9	53.8	55.3	54.5
85°	16.7	25.6	30.3	31.0	30.3
87.5°	5.2	11.1	13.9	14.1	12.9
90°	1.5	4.5	9.1	9.9	9.9
92.5°	18.5	65.5	129.4	62.3	43.3
95°	42.5	151.7	457.3	233.8	161.8
97.5°	67.9	173.7	717.2	599.2	451.8
100°	87.4	182.4	799.9	836.9	694.3
102.5°	106.2	194.7	827.2	1014.9	897.9
105°	139.0	216.3	831.0	1243.3	1166.8
107.5°	170.0	238.9	795.6	1360.6	1380.4
110°	190.7	256.0	763.4	1397.1	1469.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	212.5	273.1	732.4	1389.0	1507.4
115°	245.4	300.3	692.0	1337.1	1512.4
117.5°	275.3	326.8	660.7	1254.3	1449.5
120°	294.7	344.5	644.9	1194.9	1395.4
122.5°	311.7	360.9	633.4	1134.1	1334.0
125°	335.0	384.8	621.4	1050.2	1235.9
127.5°	357.3	406.3	613.8	976.2	1142.0
130°	370.7	419.7	610.7	933.8	1079.4
132.5°	384.1	432.5	607.7	896.5	1030.2
135°	403.4	450.2	603.9	847.2	959.4
137.5°	421.7	466.6	601.9	805.5	897.6
140°	434.5	477.6	600.1	779.7	862.9
142.5°	447.9	488.0	598.9	755.7	825.9
145°	466.4	502.8	596.3	724.4	777.8
147.5°	486.5	518.1	593.7	698.0	740.0
150°	499.8	527.3	592.5	681.4	716.3
152.5°	512.0	535.9	591.9	667.9	696.3
155°	529.5	548.8	591.0	649.9	670.7
157.5°	544.8	559.8	591.1	637.3	651.3
160°	554.5	567.1	591.7	630.0	640.4
162.5°	563.0	573.3	592.4	623.8	631.2
165°	574.3	581.0	593.3	616.9	619.8
167.5°	583.4	587.2	594.0	611.5	612.7
170°	589.5	590.9	594.0	608.5	608.5
172.5°	593.1	593.4	594.6	605.4	605.4
175°	597.1	596.3	594.0	602.3	600.9
177.5°	598.7	597.5	594.5	599.3	598.1
180°	596.3	596.3	596.3	596.3	596.3

(END OF REPORT)