

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-050D-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-050D-927-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

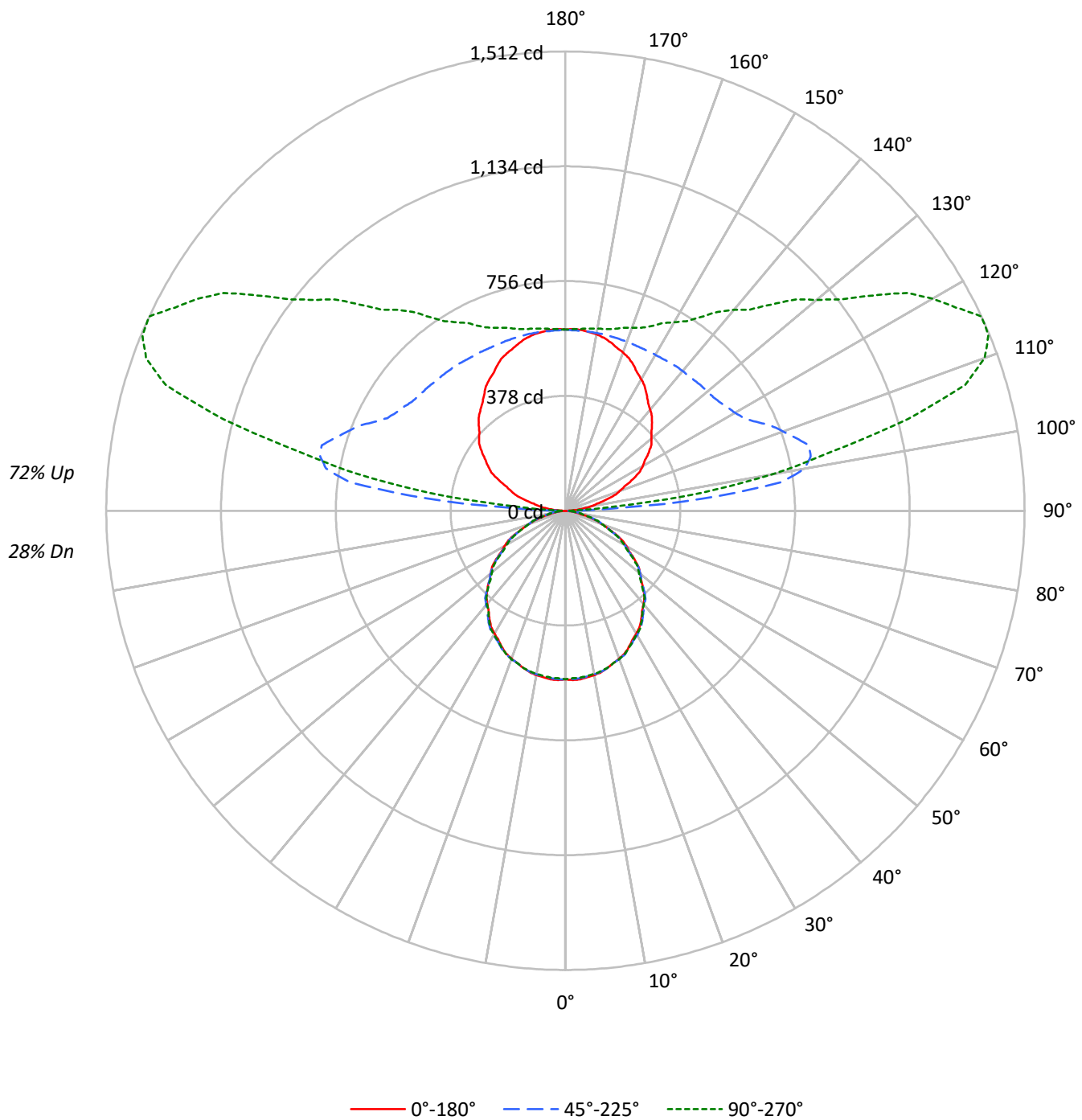
Lumens per Lamp: N/A
Luminaire Lumens: 5365.9 lumens
Efficiency: N/A
Efficacy: 112.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 47.9
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	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36
1	93	89	85	82	83	80	76	74	62	60	58	47	45	44	32	31	31
2	85	77	72	67	75	70	65	60	55	51	48	41	39	37	28	27	26
3	77	68	61	55	69	61	55	50	48	44	40	36	33	31	25	23	22
4	70	60	52	47	63	54	48	43	43	38	34	32	29	26	22	20	19
5	65	53	46	40	57	48	41	36	38	33	29	29	25	23	20	18	16
6	59	48	40	34	53	43	36	31	34	29	26	26	22	20	18	16	14
7	55	43	35	30	49	39	32	27	31	26	22	23	20	17	16	14	13
8	51	39	31	26	45	35	29	24	28	23	20	21	18	15	15	13	11
9	47	35	28	23	42	32	26	21	26	21	17	20	16	14	14	12	10
10	44	32	25	21	39	29	23	19	23	19	16	18	15	12	13	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5121	5121	5121
5°	5160	5127	5108
10°	5148	5124	5110
15°	5121	5121	5116
20°	5087	5103	5103
25°	5039	5076	5060
30°	4977	5038	5016
35°	4904	4979	4945
40°	4822	4891	4842
45°	4735	4769	4695
50°	4612	4612	4537
55°	4465	4407	4341
60°	4250	4165	4098
65°	3927	3849	3816
70°	3439	3466	3453
75°	2766	3059	3080
80°	1966	2593	2619
85°	1196	2181	2181

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 4769 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.5	1.0
10°-20°	150.8	2.8
20°-30°	228.3	4.3
30°-40°	273.7	5.1
40°-50°	279.1	5.2
50°-60°	243.7	4.5
60°-70°	174.4	3.3
70°-80°	89.8	1.7
80°-90°	24.1	0.4
90°-100°	278.9	5.2
100°-110°	751.4	14.0
110°-120°	788.6	14.7
120°-130°	639.9	11.9
130°-140°	501.9	9.4
140°-150°	385.3	7.2
150°-160°	277.0	5.2
160°-170°	169.3	3.2
170°-180°	57.1	1.1
0°-30°	431.6	8.0
0°-40°	705.4	13.1
0°-60°	1228.1	22.9
0°-90°	1516.5	28.3
90°-120°	1819.0	33.9
90°-150°	3346.1	62.4
90°-180°	3849.0	71.7
0°-180°	5365.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	555	555	555	555	555	
5°	557	552	554	552	552	53
15°	536	532	536	536	536	151
25°	495	492	499	497	497	228
35°	435	434	442	439	439	272
45°	363	362	366	361	360	279
55°	278	274	274	270	270	247
65°	180	176	176	175	175	178
75°	78	81	86	86	86	84
85°	11	17	21	21	21	15
90°	2	4	9	10	10	3
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°	555.1	555.1	555.1	555.1	555.1
2.5°	558.4	553.6	555.1	553.9	551.8
5°	557.2	551.7	553.6	552.0	551.5
7.5°	553.2	547.7	550.2	549.2	548.7
10°	549.5	544.0	546.9	545.9	545.4
12.5°	544.5	539.4	542.8	541.8	541.7
15°	536.1	531.6	536.1	536.1	535.6
17.5°	525.5	521.4	526.3	526.6	526.3
20°	518.1	513.6	519.7	519.2	519.7
22.5°	509.1	505.4	511.9	510.5	511.0
25°	495.0	491.5	498.6	497.1	497.1
27.5°	478.3	475.8	483.6	481.9	481.9
30°	467.2	464.7	472.9	470.8	470.8
32.5°	454.9	453.2	461.0	458.5	458.5
35°	435.4	434.4	442.1	439.0	439.0
37.5°	415.2	414.3	421.3	417.6	416.4
40°	400.4	399.9	406.1	402.0	402.0
42.5°	385.6	385.1	390.4	385.5	385.5
45°	362.9	361.9	365.5	360.8	359.8
47.5°	338.1	337.1	339.4	334.3	333.8
50°	321.3	320.3	321.3	316.6	316.1
52.5°	304.0	302.2	302.3	297.7	297.6
55°	277.6	274.1	274.0	269.9	269.9
57.5°	249.6	245.0	245.4	241.9	241.4
60°	230.3	225.3	225.7	222.6	222.1
62.5°	211.4	205.5	206.7	203.2	203.1
65°	179.9	175.9	176.3	174.8	174.8
67.5°	149.7	146.0	148.7	147.4	147.3
70°	127.5	125.0	128.5	128.5	128.0
72.5°	106.9	106.8	111.2	111.2	111.5
75°	77.6	81.1	85.8	86.4	86.4
77.5°	51.8	58.0	63.2	63.4	63.3
80°	37.0	44.0	48.8	49.8	49.3
82.5°	25.1	32.5	36.5	37.5	37.0
85°	11.3	17.3	20.6	21.1	20.6
87.5°	3.6	7.8	10.0	10.2	9.4
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

TEST NUMBER:

CATALOG NUMBER: SQ4-PC3-125U-050D-927-1D-UNV-STD-W-4

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)