

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-100D-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-PP3-125U-100D-927-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

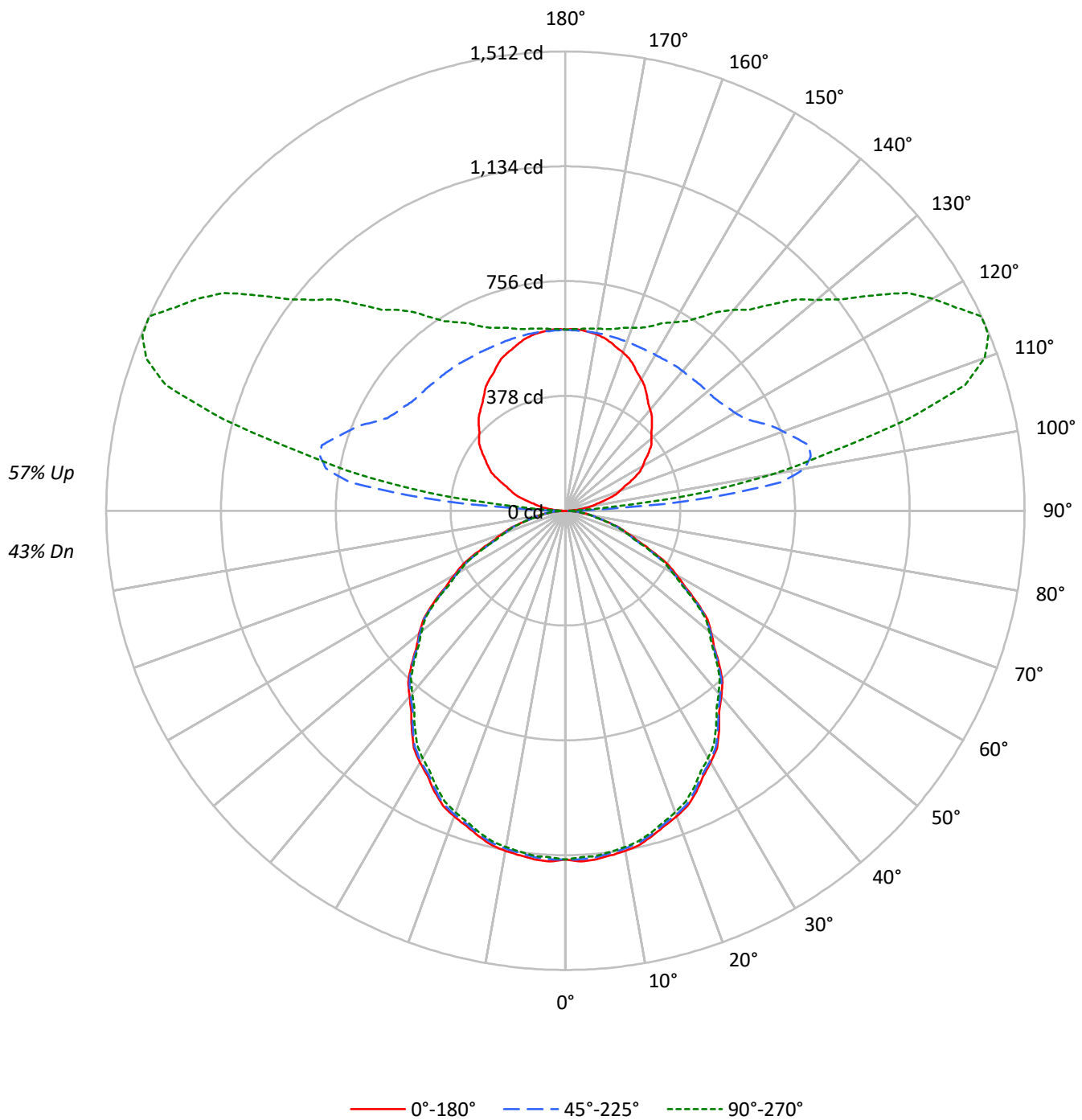
Lumens per Lamp: N/A
Luminaire Lumens: 6790.5 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 64.5
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	106	106	106	106	97	97	97	97	80	80	80	64	64	64	50	50	50
1	96	92	88	85	88	85	81	78	70	68	66	57	55	54	44	43	43
2	88	81	75	70	80	74	69	65	62	58	55	50	47	45	39	38	36
3	80	71	64	58	73	65	59	54	54	50	46	44	41	38	35	33	31
4	73	63	55	49	67	58	51	46	48	43	39	39	36	33	31	29	27
5	67	56	48	42	61	52	45	39	43	38	34	35	32	28	28	25	23
6	62	50	42	37	57	46	39	34	39	34	30	32	28	25	26	23	20
7	57	45	37	32	52	42	35	30	35	30	26	29	25	22	23	20	18
8	53	41	33	28	49	38	31	26	32	27	23	27	23	20	21	18	16
9	49	37	30	25	45	35	28	24	29	24	21	24	20	18	20	17	15
10	46	34	27	22	42	32	25	21	27	22	18	23	19	16	18	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10596	10596	10596
5°	10675	10609	10572
10°	10657	10581	10534
15°	10586	10528	10471
20°	10515	10457	10377
25°	10391	10318	10217
30°	10199	10144	10016
35°	9932	9863	9739
40°	9613	9553	9444
45°	9351	9286	9193
50°	9015	8958	8872
55°	8549	8435	8371
60°	7783	7560	7523
65°	6857	6571	6549
70°	5918	5676	5676
75°	5094	5023	4951
80°	4495	4548	4436
85°	3515	3832	3832

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9351 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.6	1.6
10°-20°	310.1	4.6
20°-30°	464.5	6.8
30°-40°	544.8	8.0
40°-50°	546.5	8.0
50°-60°	466.2	6.9
60°-70°	304.1	4.5
70°-80°	152.5	2.2
80°-90°	43.6	0.6
90°-100°	278.9	4.1
100°-110°	751.4	11.1
110°-120°	788.6	11.6
120°-130°	639.9	9.4
130°-140°	501.9	7.4
140°-150°	385.3	5.7
150°-160°	277.0	4.1
160°-170°	169.3	2.5
170°-180°	57.1	0.8
0°-30°	883.2	13.0
0°-40°	1428.0	21.0
0°-60°	2440.8	35.9
0°-90°	2941.0	43.3
90°-120°	1819.0	26.8
90°-150°	3346.1	49.3
90°-180°	3849.0	56.7
0°-180°	6790.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1148	1148	1148	1148	1148	
5°	1153	1142	1146	1142	1142	109
15°	1108	1097	1102	1098	1096	313
25°	1021	1009	1014	1005	1004	469
35°	882	873	876	866	865	551
45°	717	712	712	705	705	552
55°	532	530	524	521	520	472
65°	314	308	301	299	300	313
75°	143	143	141	140	139	155
85°	33	36	36	36	36	39
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:

CATALOG NUMBER: SQ4-PP3-125U-100D-927-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1148.5	1148.5	1148.5	1148.5	1148.5
2.5°	1155.8	1146.3	1148.5	1146.8	1142.1
5°	1152.6	1141.7	1145.5	1141.5	1141.5
7.5°	1144.7	1132.9	1136.7	1132.6	1132.4
10°	1137.5	1125.6	1129.4	1125.4	1124.4
12.5°	1127.0	1115.2	1119.7	1114.9	1114.7
15°	1108.3	1097.4	1102.2	1098.2	1096.2
17.5°	1087.1	1075.3	1081.1	1075.4	1074.6
20°	1071.0	1059.2	1065.0	1056.9	1056.9
22.5°	1051.7	1039.9	1046.5	1036.0	1036.0
25°	1020.7	1008.9	1013.6	1004.6	1003.6
27.5°	983.9	972.2	977.2	966.9	966.7
30°	957.3	946.5	952.2	941.1	940.2
32.5°	928.3	918.2	922.4	911.4	910.4
35°	881.8	872.9	875.7	865.7	864.7
37.5°	832.9	823.8	827.0	818.4	818.0
40°	798.2	792.3	793.2	786.1	784.1
42.5°	766.0	759.3	760.2	753.1	752.7
45°	716.7	711.8	711.7	704.6	704.6
47.5°	664.4	660.6	659.5	653.7	653.5
50°	628.1	625.2	624.1	619.0	618.1
52.5°	590.3	588.9	585.4	581.2	581.0
55°	531.5	529.5	524.4	521.4	520.4
57.5°	467.7	463.7	458.0	453.6	454.4
60°	421.8	417.8	409.7	407.7	407.7
62.5°	377.5	372.8	364.6	361.8	363.4
65°	314.1	308.2	301.0	299.0	300.0
67.5°	256.5	251.2	243.4	243.4	242.6
70°	219.4	216.5	210.4	210.4	210.4
72.5°	186.4	185.0	180.6	180.6	179.8
75°	142.9	142.9	140.9	139.9	138.9
77.5°	107.1	107.5	106.5	105.5	103.7
80°	84.6	86.5	85.6	84.5	83.5
82.5°	63.6	65.6	65.4	63.6	63.4
85°	33.2	36.2	36.2	36.2	36.2
87.5°	9.2	12.9	14.7	14.9	15.7
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)