

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-BB-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-BB-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

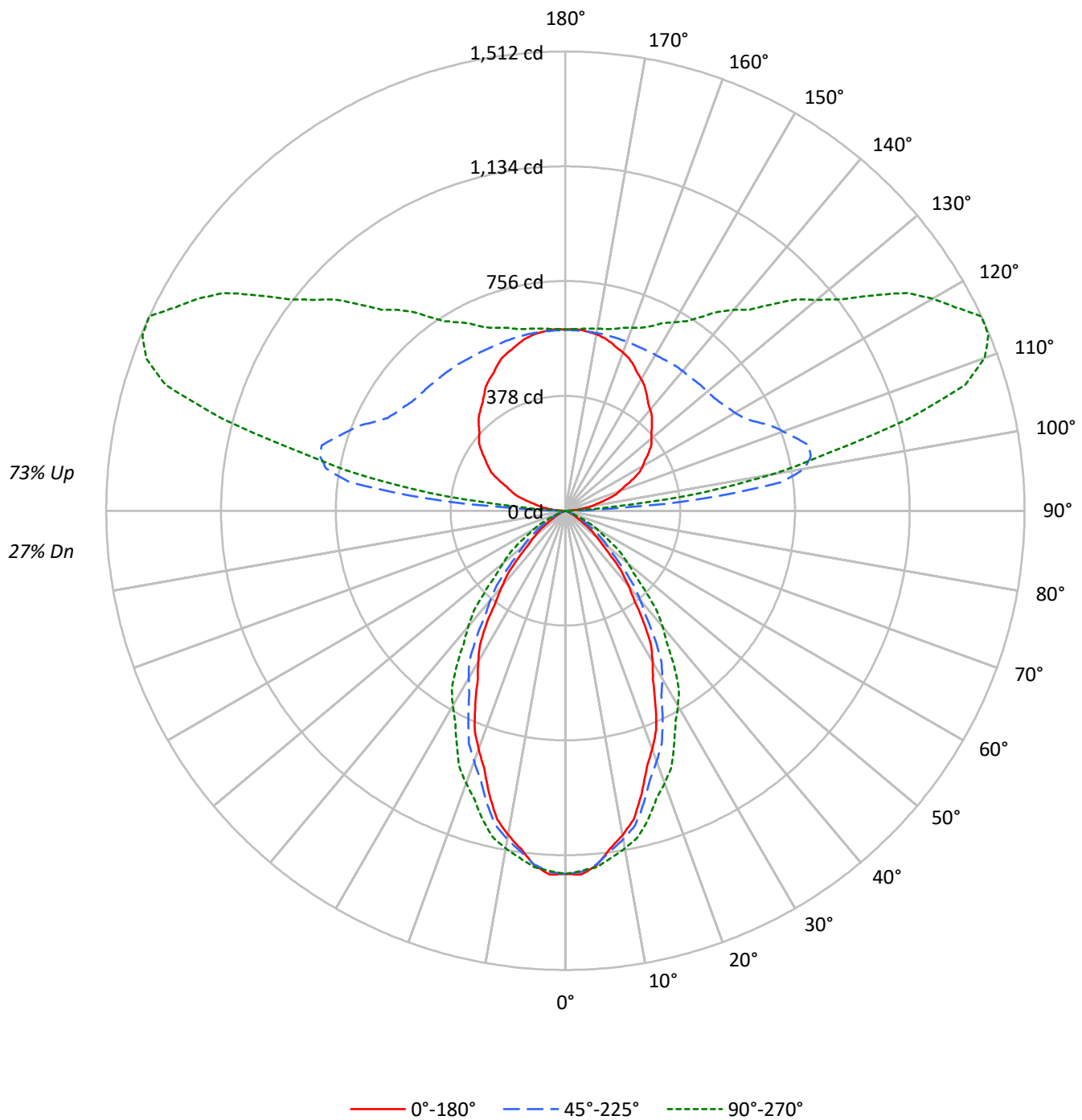
Lumens per Lamp: N/A
Luminaire Lumens: 5277.4 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

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	102	102	102	102	91	91	91	91	71	71	71	52	52	52	35	35	35
1	94	90	86	83	84	81	78	75	63	61	60	47	46	45	32	32	31
2	86	80	74	70	77	72	67	63	56	53	51	43	41	39	30	29	28
3	79	71	64	59	71	64	58	54	51	47	44	39	36	34	27	26	25
4	73	63	56	51	65	57	51	47	46	42	38	35	32	30	25	24	22
5	67	57	49	44	60	51	45	41	41	37	34	32	29	27	23	21	20
6	62	51	44	39	56	46	40	36	38	33	30	29	26	24	21	20	18
7	58	46	39	34	52	42	36	32	34	30	27	27	24	22	20	18	17
8	53	42	35	30	48	39	32	28	31	27	24	25	22	20	18	17	15
9	50	39	32	27	45	35	29	25	29	25	22	23	20	18	17	15	14
10	47	36	29	25	42	33	27	23	27	22	20	21	18	16	16	14	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11033	11033	11033
5°	10855	10828	10909
10°	10157	10292	10580
15°	9234	9527	10057
20°	8196	8622	9377
25°	7138	7703	8616
30°	6114	6786	7895
35°	5070	5760	7024
40°	3895	4606	5986
45°	2816	3488	4816
50°	1918	2599	3819
55°	1247	1880	2968
60°	716	1323	2146
65°	190	808	1087
70°	94	251	313
75°	43	21	0
80°	32	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4816 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.1	2.1
10°-20°	279.1	5.3
20°-30°	349.4	6.6
30°-40°	322.7	6.1
40°-50°	216.9	4.1
50°-60°	112.0	2.1
60°-70°	35.1	0.7
70°-80°	2.2	0.0
80°-90°	1.4	0.0
90°-100°	278.9	5.3
100°-110°	751.4	14.2
110°-120°	788.6	14.9
120°-130°	639.9	12.1
130°-140°	501.9	9.5
140°-150°	385.3	7.3
150°-160°	277.0	5.2
160°-170°	169.3	3.2
170°-180°	57.1	1.1
0°-30°	737.6	14.0
0°-40°	1060.3	20.1
0°-60°	1389.2	26.3
0°-90°	1427.9	27.1
90°-120°	1819.0	34.5
90°-150°	3346.1	63.4
90°-180°	3849.0	72.9
0°-180°	5277.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1196	1196	1196	1196	1196	
5°	1172	1160	1169	1173	1178	109
15°	967	963	997	1031	1053	269
25°	701	707	757	808	846	321
35°	450	461	511	572	624	279
45°	216	229	267	319	369	169
55°	78	90	117	150	184	72
65°	9	17	37	45	50	15
75°	1	1	1	0	0	2
85°	0	0	0	0	0	0
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°	1195.8	1195.8	1195.8	1195.8	1195.8
2.5°	1198.6	1187.3	1190.3	1190.2	1187.0
5°	1172.1	1160.2	1169.2	1173.3	1177.9
7.5°	1122.6	1113.3	1130.6	1143.5	1152.9
10°	1084.2	1076.2	1098.6	1116.3	1129.3
12.5°	1039.7	1033.6	1060.7	1084.9	1101.5
15°	966.7	963.3	997.4	1030.9	1052.9
17.5°	888.5	888.4	927.3	968.8	995.4
20°	834.8	836.5	878.2	924.0	955.1
22.5°	781.1	785.1	829.6	877.4	913.0
25°	701.2	706.8	756.7	808.5	846.4
27.5°	624.3	632.6	685.1	738.9	785.1
30°	573.9	583.5	637.0	693.6	741.1
32.5°	524.4	535.8	587.9	647.8	696.2
35°	450.1	461.4	511.4	571.6	623.6
37.5°	373.4	384.5	433.3	492.6	548.8
40°	323.4	335.8	382.4	439.8	497.0
42.5°	278.0	290.5	334.3	390.7	444.7
45°	215.8	228.8	267.3	319.3	369.1
47.5°	164.2	178.3	212.1	259.2	304.5
50°	133.6	147.8	181.1	222.6	266.1
52.5°	109.1	122.8	152.8	191.9	231.9
55°	77.5	90.5	116.9	150.0	184.5
57.5°	53.6	64.8	88.4	116.1	143.1
60°	38.8	49.5	71.7	94.2	116.3
62.5°	25.8	35.6	57.4	74.6	89.4
65°	8.7	16.6	37.0	44.7	49.8
67.5°	4.4	5.3	19.4	20.5	22.2
70°	3.5	3.5	9.3	9.9	11.6
72.5°	2.5	2.5	3.7	4.8	5.1
75°	1.2	1.2	0.6	0.0	0.0
77.5°	0.6	0.6	0.5	0.0	0.0
80°	0.6	0.6	0.0	0.0	0.0
82.5°	0.1	0.1	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.3	0.9	1.8	2.0	2.0
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)