

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-WB-150U-125D-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 (G3-1910-536-25)
Test Lab: INNOVATION CENTER
Issue Date: 8/1/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-WB-150U-125D-927-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

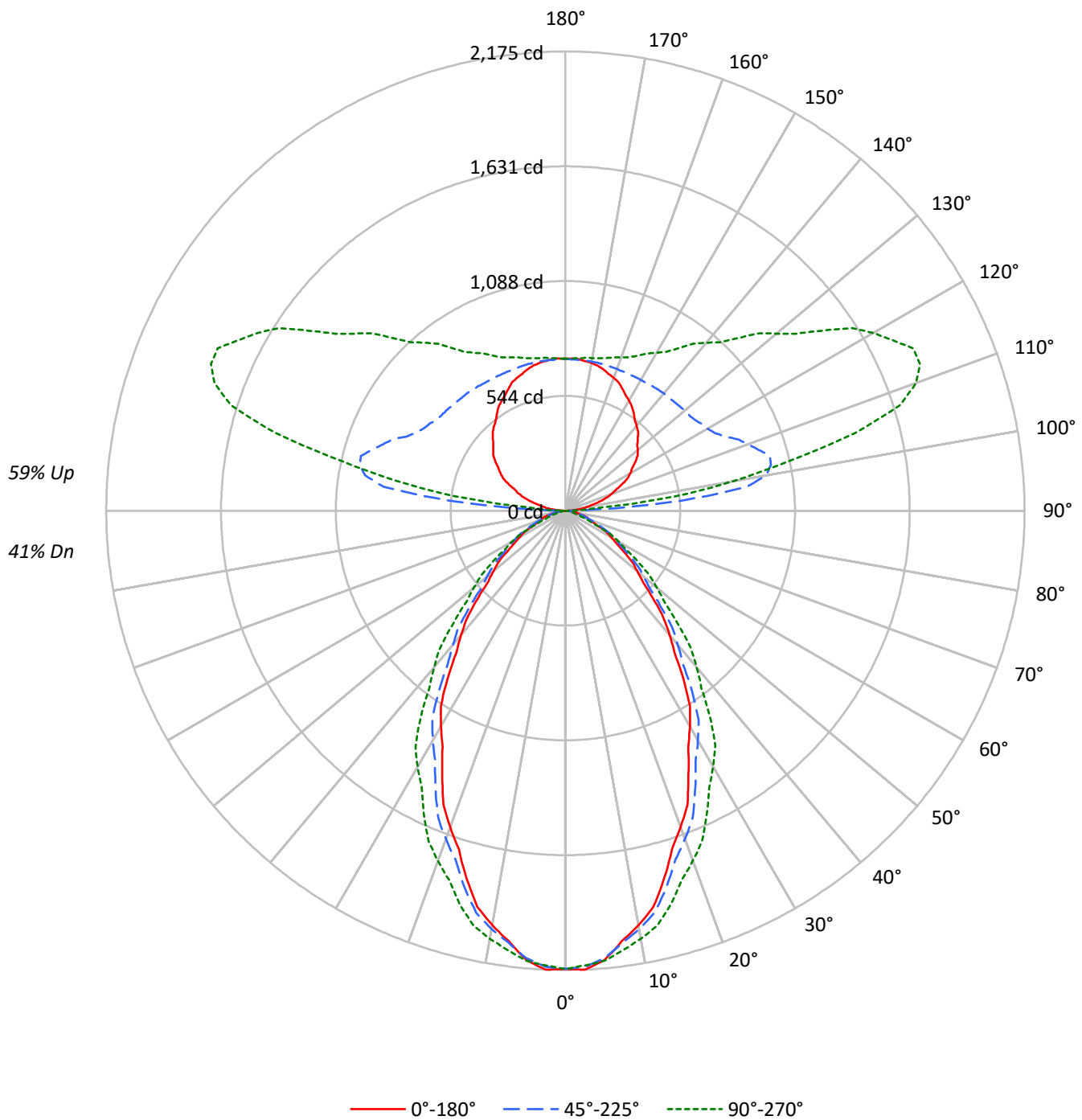
Lumens per Lamp: N/A
Luminaire Lumens: 7802.1 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 83.1
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	105	105	105	105	96	96	96	96	78	78	78	62	62	62	47	47	47
1	97	93	89	86	88	85	82	79	70	68	66	56	55	53	43	43	42
2	89	82	76	72	81	75	70	66	62	59	56	50	48	46	39	38	37
3	82	73	66	61	74	67	61	57	56	52	48	45	43	40	36	34	32
4	75	65	58	52	68	60	54	49	50	46	42	41	38	35	33	31	29
5	69	59	51	46	63	54	48	43	45	41	37	37	34	31	30	28	26
6	64	53	45	40	59	49	42	38	41	36	33	34	31	28	28	25	23
7	60	48	41	35	54	45	38	33	38	33	29	31	28	25	25	23	21
8	55	44	37	32	51	41	34	30	35	30	26	29	25	23	24	21	19
9	52	40	33	28	47	37	31	27	32	27	24	27	23	21	22	19	18
10	48	37	30	26	44	35	28	24	30	25	22	25	21	19	21	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20021	20021	20021
5°	19771	19701	19816
10°	18680	18849	19286
15°	17245	17644	18436
20°	15659	16248	17323
25°	14045	14811	16139
30°	12558	13380	14912
35°	10982	11776	13459
40°	9244	9977	11651
45°	7628	8287	9728
50°	6369	6943	8104
55°	5406	5958	6693
60°	4620	5165	5342
65°	3679	4344	3451
70°	3261	3391	2107
75°	3019	2748	1290
80°	2784	2529	1110
85°	2519	2318	910

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 9728 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.0	2.6
10°-20°	517.7	6.6
20°-30°	670.6	8.6
30°-40°	656.7	8.4
40°-50°	502.7	6.4
50°-60°	334.9	4.3
60°-70°	182.8	2.3
70°-80°	76.2	1.0
80°-90°	23.1	0.3
90°-100°	334.3	4.3
100°-110°	904.0	11.6
110°-120°	950.4	12.2
120°-130°	772.0	9.9
130°-140°	605.6	7.8
140°-150°	464.8	6.0
150°-160°	334.3	4.3
160°-170°	204.2	2.6
170°-180°	68.8	0.9
0°-30°	1387.4	17.8
0°-40°	2044.0	26.2
0°-60°	2881.6	36.9
0°-90°	3163.6	40.5
90°-120°	2188.8	28.1
90°-150°	4031.1	51.7
90°-180°	4638.0	59.4
0°-180°	7802.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2170	2170	2170	2170	2170	
5°	2135	2113	2127	2132	2140	199
15°	1805	1799	1847	1898	1930	504
25°	1380	1383	1455	1518	1585	634
35°	975	980	1046	1116	1195	606
45°	585	596	635	683	746	456
55°	336	350	370	384	416	305
65°	168	182	199	174	158	175
75°	85	85	77	53	36	90
85°	24	24	22	14	9	26
90°	2	5	10	11	10	5
95°	52	182	556	288	171	54
105°	168	260	1003	1479	1419	177
115°	296	362	832	1610	1818	292
125°	405	464	750	1265	1486	361
135°	486	543	730	1021	1156	375
145°	564	607	719	874	941	353
155°	637	662	713	784	810	294
165°	694	701	716	744	748	195
175°	720	719	717	726	725	68
180°	719	719	719	719	719	

TEST NUMBER:

CATALOG NUMBER: SQ4-WB-150U-125D-927-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2170.0	2170.0	2170.0	2170.0	2170.0
2.5°	2175.4	2156.0	2160.9	2160.8	2154.8
5°	2134.8	2113.4	2127.2	2132.1	2139.6
7.5°	2055.6	2039.4	2064.5	2083.2	2098.2
10°	1993.9	1979.9	2012.0	2039.1	2058.6
12.5°	1922.3	1910.6	1950.3	1986.7	2012.2
15°	1805.4	1798.8	1847.2	1897.5	1930.1
17.5°	1680.2	1677.1	1732.6	1791.3	1833.0
20°	1594.9	1594.0	1654.9	1716.0	1764.4
22.5°	1508.8	1510.9	1574.9	1638.4	1693.6
25°	1379.7	1383.4	1454.9	1518.4	1585.4
27.5°	1260.3	1262.0	1335.9	1402.9	1474.4
30°	1178.8	1183.5	1255.9	1325.2	1399.7
32.5°	1097.3	1102.7	1173.7	1245.3	1321.3
35°	975.0	979.7	1045.5	1115.9	1195.0
37.5°	849.0	855.3	913.7	980.2	1058.1
40°	767.5	776.8	828.4	891.1	967.4
42.5°	689.0	700.5	748.4	807.9	876.8
45°	584.6	595.8	635.1	683.2	745.6
47.5°	494.8	507.6	537.8	579.2	632.4
50°	443.7	455.8	483.7	514.4	564.6
52.5°	398.8	410.9	435.7	459.4	502.2
55°	336.1	350.1	370.4	384.5	416.1
57.5°	284.7	298.1	314.2	320.6	339.7
60°	250.4	265.3	279.9	279.2	289.5
62.5°	219.2	231.9	246.4	236.3	236.9
65°	168.5	182.5	199.0	173.9	158.1
67.5°	136.2	139.1	156.2	121.3	102.5
70°	120.9	120.9	125.7	93.9	78.1
72.5°	106.5	106.5	102.1	76.4	59.8
75°	84.7	84.7	77.1	52.9	36.2
77.5°	65.3	64.6	59.0	39.5	26.3
80°	52.4	52.4	47.6	31.2	20.9
82.5°	40.9	40.9	36.9	24.4	15.6
85°	23.8	23.8	21.9	14.2	8.6
87.5°	8.7	9.3	9.6	6.7	5.8
90°	1.5	4.6	10.1	10.8	10.1
92.5°	22.0	80.1	158.1	68.6	49.7
95°	51.9	182.1	556.0	287.8	171.1
97.5°	83.3	208.9	866.7	717.3	526.8
100°	106.9	219.7	963.4	1004.7	812.4
102.5°	128.6	234.7	997.4	1222.6	1078.8
105°	168.0	259.7	1002.9	1479.3	1418.7
107.5°	204.6	288.2	959.0	1639.4	1659.6
110°	233.1	308.8	920.0	1682.4	1768.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	258.5	329.4	884.1	1673.8	1817.5
115°	295.8	361.7	831.7	1610.1	1817.5
117.5°	332.4	394.2	797.2	1512.7	1747.9
120°	354.7	415.3	776.7	1442.8	1682.8
122.5°	375.7	435.1	764.3	1367.8	1609.7
125°	405.0	464.1	749.6	1265.0	1486.1
127.5°	432.0	490.0	741.0	1181.1	1375.5
130°	446.8	506.7	737.2	1129.2	1304.9
132.5°	462.3	521.5	733.5	1082.4	1244.2
135°	485.6	543.1	729.5	1021.4	1156.2
137.5°	508.9	563.3	726.1	971.9	1081.7
140°	525.1	575.8	724.9	940.0	1037.7
142.5°	540.5	588.2	722.4	911.3	996.8
145°	564.5	607.0	719.4	874.3	940.9
147.5°	586.4	623.9	716.0	840.8	892.0
150°	602.5	635.8	714.8	822.6	863.5
152.5°	617.4	646.4	714.2	805.7	839.3
155°	637.3	662.3	713.2	784.3	810.0
157.5°	658.1	675.5	713.4	769.4	786.3
160°	669.9	684.3	714.0	760.0	772.1
162.5°	679.2	691.1	714.6	752.5	761.6
165°	693.9	700.7	716.3	744.3	748.1
167.5°	703.9	708.6	716.5	737.3	739.1
170°	710.1	712.4	717.1	734.1	734.1
172.5°	715.1	715.5	717.1	730.4	729.8
175°	720.2	719.4	717.1	726.4	724.9
177.5°	721.9	720.1	717.0	723.1	721.3
180°	719.4	719.4	719.4	719.4	719.4

(END OF REPORT)