

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-FB-0U-075D-935-1D-UNV-STD-W-8

Issue Date: 8/1/2024

Test Information

Test Method: LM-79-2019
Report Number:
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2301-892-3)
Test Lab: INNOVATION CENTER
Issue Date: 8/1/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FB-0U-075D-935-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

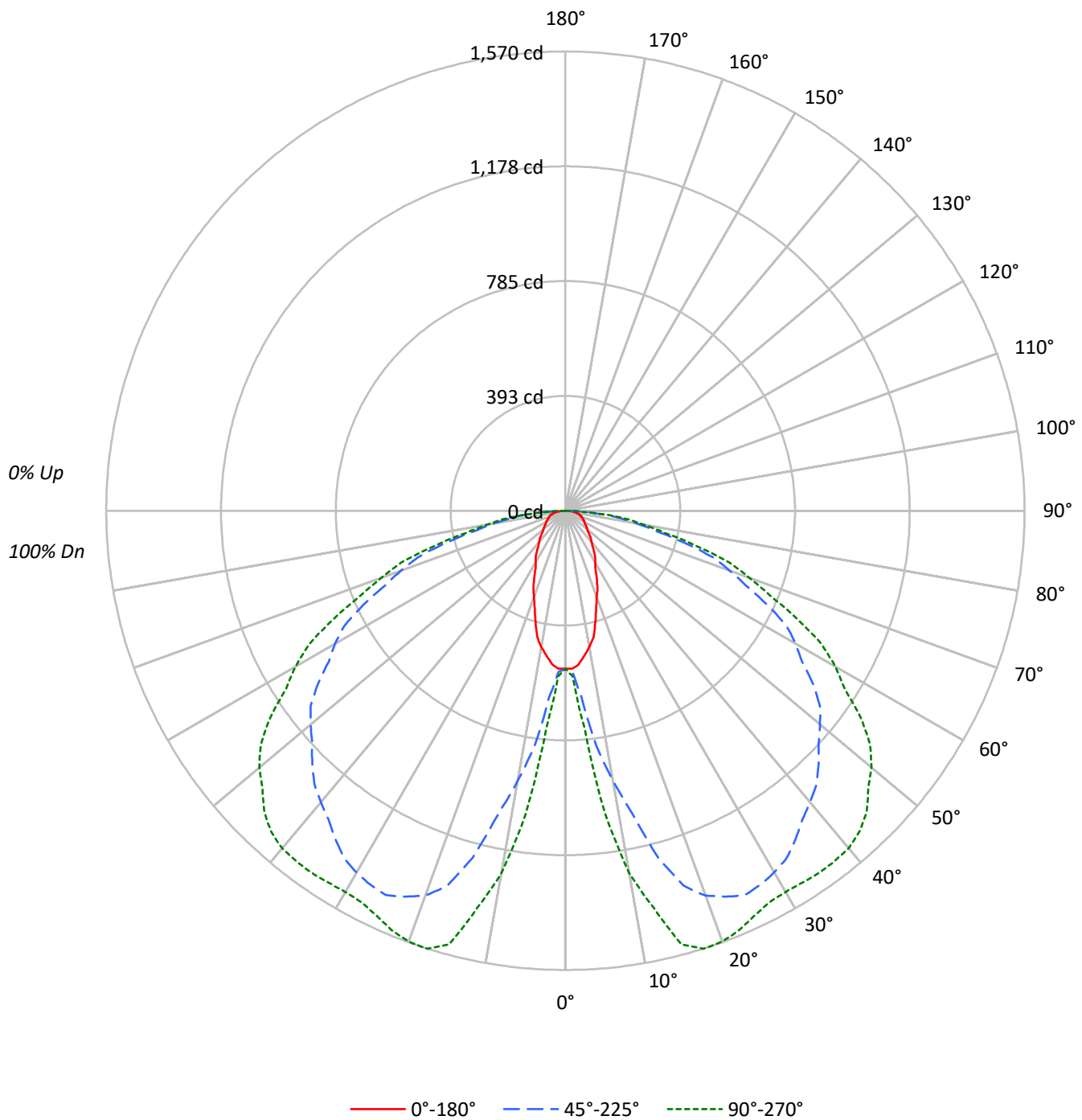
Lumens per Lamp: N/A
Luminaire Lumens: 4182.5 lumens
Efficiency: N/A
Efficacy: 76.9 lumens/watt
Spacing Criteria (0/90/45): 0.7 / 2.7 / 2.32
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 54.4
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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	108	103	98	94	105	100	96	92	96	93	89	92	89	87	89	86	84	82		
2	97	88	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67		
3	88	77	68	61	86	75	67	61	72	65	59	69	63	58	67	62	57	55		
4	80	67	58	51	78	66	57	51	63	56	50	61	54	49	59	53	48	46		
5	73	60	50	43	71	58	50	43	56	48	42	54	47	42	52	46	41	39		
6	67	53	44	37	65	52	43	37	50	42	36	49	42	36	47	41	36	34		
7	62	48	39	32	60	47	38	32	45	38	32	44	37	32	43	36	31	29		
8	58	43	34	28	56	43	34	28	41	34	28	40	33	28	39	32	28	26		
9	54	40	31	25	52	39	31	25	38	30	25	37	30	25	36	29	25	23		
10	50	36	28	23	49	36	28	22	35	27	22	34	27	22	33	27	22	20		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2493	2493	2493
5°	2438	2965	3452
10°	2214	4388	5894
15°	1884	5864	7329
20°	1536	6872	7695
25°	1283	7381	7775
30°	1083	7609	8016
35°	959	7721	8514
40°	837	7833	9073
45°	759	7987	9501
50°	698	8156	9803
55°	671	8309	9909
60°	689	8386	9829
65°	720	8318	9541
70°	773	8063	9023
75°	868	7481	8270
80°	970	6463	7202
85°	921	5380	6161

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 52.5°

Luminance: 9950 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.9	1.7
10°-20°	308.8	7.4
20°-30°	541.1	12.9
30°-40°	696.7	16.7
40°-50°	777.8	18.6
50°-60°	745.9	17.8
60°-70°	593.6	14.2
70°-80°	349.7	8.4
80°-90°	98.0	2.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	920.7	22.0
0°-40°	1617.4	38.7
0°-60°	3141.1	75.1
0°-90°	4182.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4182.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	540	540	540	540	540	
5°	526	564	640	722	746	48
15°	394	725	1228	1484	1534	109
25°	252	822	1450	1525	1528	116
35°	170	771	1371	1455	1512	106
45°	116	605	1224	1391	1456	90
55°	83	404	1033	1195	1232	76
65°	66	264	762	860	874	65
75°	49	166	420	457	464	51
85°	17	45	102	114	116	20
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
0°	540.5	540.5	540.5	540.5	540.5	540.5	540.5	540.5	540.5	540.5
2.5°	540.5	540.5	543.2	547.4	548.8	554.4	562.7	566.9	569.6	566.9
5°	526.5	533.5	556.1	589.1	622.1	658.6	705.5	728.1	742.0	745.5
7.5°	499.1	518.2	582.5	668.7	764.6	859.9	942.2	1009.0	1047.9	1049.6
10°	472.7	505.7	604.7	736.8	868.9	1004.4	1117.4	1186.9	1242.5	1258.2
12.5°	443.5	493.2	628.4	804.9	985.7	1137.9	1263.4	1339.8	1384.3	1390.2
15°	394.5	467.5	662.1	912.3	1136.5	1319.0	1438.9	1499.7	1527.5	1534.5
17.5°	348.9	444.5	691.6	996.4	1262.0	1426.4	1517.4	1555.7	1569.6	1570.3
20°	312.8	422.3	705.5	1054.8	1325.9	1473.6	1539.7	1564.0	1571.0	1567.5
22.5°	286.4	398.6	713.9	1093.8	1364.9	1491.7	1541.1	1552.9	1555.7	1552.2
25°	252.0	359.7	714.2	1145.2	1404.1	1496.2	1522.3	1525.8	1529.2	1527.5
27.5°	221.4	316.3	703.8	1179.3	1409.7	1475.0	1487.2	1495.9	1506.7	1509.1
30°	203.3	288.5	689.9	1190.4	1404.1	1452.8	1465.0	1480.6	1499.7	1504.9
32.5°	189.4	262.1	669.0	1191.8	1390.2	1426.4	1442.7	1472.2	1499.7	1507.7
35°	170.3	222.4	634.3	1181.7	1358.9	1383.3	1418.0	1466.7	1503.2	1511.9
37.5°	151.5	193.9	587.0	1161.2	1317.9	1343.3	1400.7	1459.4	1500.1	1510.8
40°	139.0	177.3	550.9	1141.7	1286.0	1315.5	1386.8	1451.0	1494.5	1506.7
42.5°	129.3	163.4	512.0	1116.7	1249.8	1290.5	1370.1	1438.5	1479.2	1488.6
45°	116.4	142.5	450.1	1070.5	1193.9	1254.7	1341.6	1407.6	1445.8	1456.3
47.5°	104.3	127.9	385.4	1017.6	1136.9	1211.2	1300.2	1362.8	1397.9	1404.8
50°	97.3	118.2	342.3	980.1	1096.5	1176.5	1266.8	1329.4	1358.9	1365.9
52.5°	91.8	109.8	302.0	937.0	1054.8	1140.3	1226.5	1283.5	1310.3	1313.1
55°	83.4	99.1	248.5	870.6	988.8	1077.4	1160.8	1206.0	1225.1	1232.1
57.5°	78.9	91.1	206.4	798.7	914.4	1003.4	1079.2	1114.3	1129.6	1132.0
60°	74.7	86.9	184.2	747.2	867.2	950.6	1016.6	1046.1	1060.0	1065.3
62.5°	70.6	84.1	167.5	694.4	811.5	892.2	949.9	975.2	986.4	987.4
65°	66.0	79.9	147.7	613.4	724.7	799.4	844.6	865.4	870.6	874.1
67.5°	61.5	75.8	133.5	531.8	635.0	696.9	730.2	748.3	749.3	756.6
70°	57.3	73.0	125.1	476.2	568.3	627.3	655.1	669.0	667.3	669.0
72.5°	54.6	68.8	119.6	419.2	504.3	550.9	575.9	585.6	586.7	587.0
75°	48.7	60.8	111.2	331.9	399.7	439.7	458.8	457.0	462.3	464.0
77.5°	42.1	52.5	91.4	244.7	299.6	326.0	341.3	346.2	344.4	344.8
80°	36.5	46.9	74.7	187.7	232.9	253.7	267.6	271.1	269.4	271.1
82.5°	29.5	38.6	58.0	139.0	174.5	191.2	200.9	201.6	202.6	205.8
85°	17.4	22.6	34.8	76.5	97.3	106.0	113.0	114.7	116.4	116.4
87.5°	7.0	9.7	18.1	32.0	40.3	43.1	43.1	40.3	43.1	38.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)