

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-835-1D-UNV-STD-W-6

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-835-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

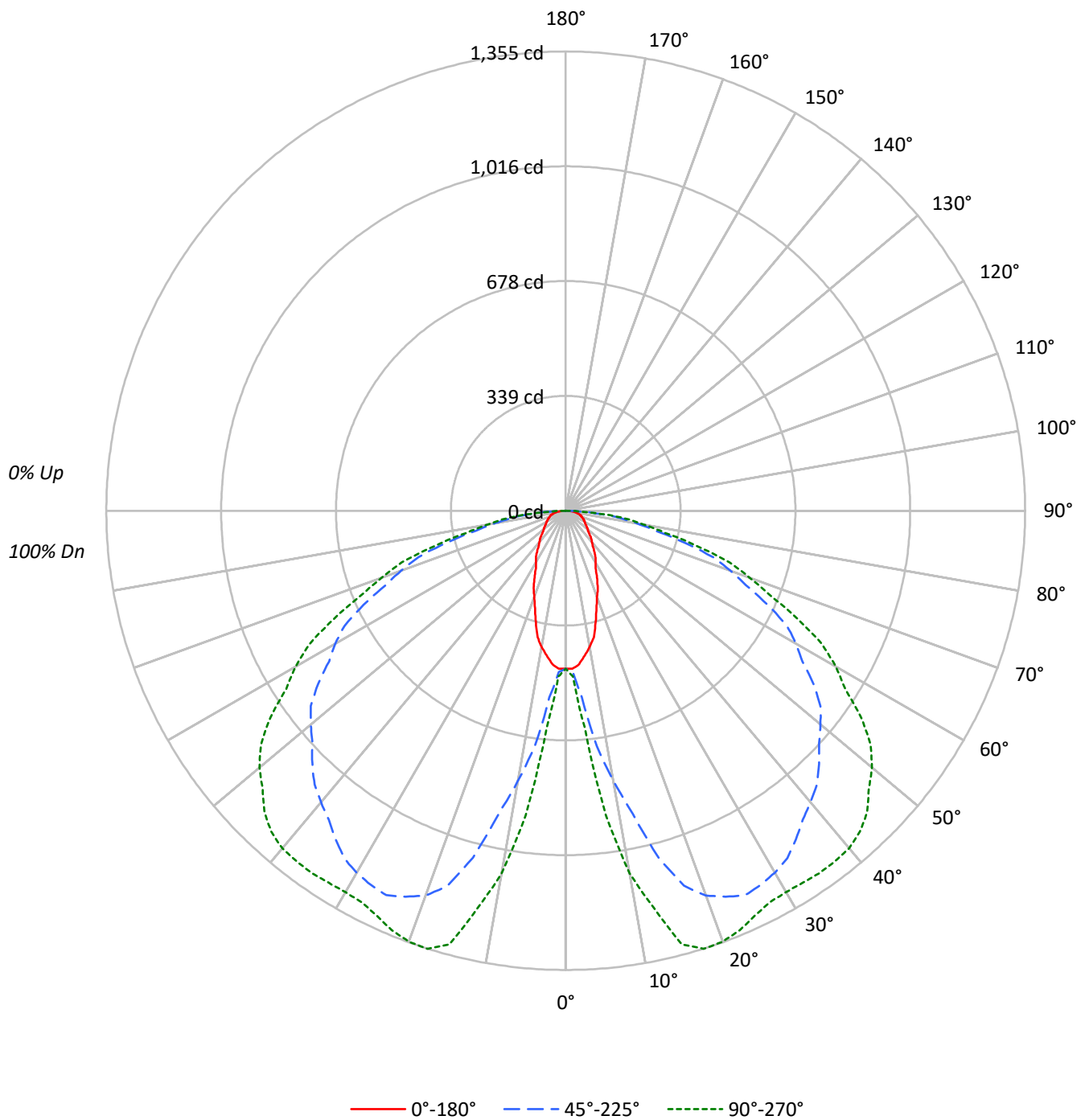
Lumens per Lamp: N/A
Luminaire Lumens: 3610.2 lumens
Efficiency: N/A
Efficacy: 89.4 lumens/watt
Spacing Criteria (0/90/45): 0.7 / 2.7 / 2.32
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Direct

Input Watts (W): 40.4
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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	108	103	98	94	105	100	96	92	96	93	89	92	89	87	89	86	84
2	97	88	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69
3	88	77	68	61	86	75	67	61	72	65	59	69	63	58	67	62	57
4	80	67	58	51	78	66	57	51	63	56	50	61	54	49	59	53	48
5	73	60	50	43	71	58	50	43	56	48	42	54	47	42	52	46	41
6	67	53	44	37	65	52	43	37	50	42	36	49	42	36	47	41	36
7	62	48	39	32	60	47	38	32	45	38	32	44	37	32	43	36	31
8	58	43	34	28	56	43	34	28	41	34	28	40	33	28	39	32	28
9	54	40	31	25	52	39	31	25	38	30	25	37	30	25	36	29	25
10	50	36	28	23	49	36	28	22	35	27	22	34	27	22	33	27	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2869	2869	2869
5°	2806	3413	3973
10°	2548	5050	6783
15°	2168	6748	8434
20°	1767	7909	8856
25°	1476	8495	8948
30°	1246	8757	9226
35°	1104	8887	9799
40°	964	9015	10442
45°	874	9192	10934
50°	804	9387	11282
55°	772	9563	11405
60°	793	9651	11311
65°	830	9573	10981
70°	890	9280	10386
75°	998	8609	9518
80°	1116	7438	8289
85°	1059	6193	7093

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 52.5°

Luminance: 11452 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.2	1.7
10°-20°	266.5	7.4
20°-30°	467.0	12.9
30°-40°	601.4	16.7
40°-50°	671.4	18.6
50°-60°	643.8	17.8
60°-70°	512.4	14.2
70°-80°	301.9	8.4
80°-90°	84.6	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°	794.7	22.0
0°-40°	1396.1	38.7
0°-60°	2711.3	75.1
0°-90°	3610.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3610.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	466	466	466	466	466	
5°	454	487	553	624	644	42
15°	340	626	1060	1281	1324	94
25°	218	710	1252	1316	1318	100
35°	147	666	1184	1256	1305	92
45°	100	522	1057	1201	1257	78
55°	72	349	892	1031	1064	66
65°	57	228	658	742	754	56
75°	42	144	362	395	400	44
85°	15	39	88	99	100	17
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
0°	466.5	466.5	466.5	466.5	466.5	466.5	466.5	466.5	466.5	466.5
2.5°	466.5	466.5	468.9	472.5	473.7	478.5	485.7	489.3	491.7	489.3
5°	454.5	460.5	480.0	508.5	537.0	568.5	609.0	628.5	640.5	643.5
7.5°	430.8	447.3	502.8	577.2	660.0	742.2	813.3	870.9	904.5	906.0
10°	408.0	436.5	522.0	636.0	750.0	867.0	964.5	1024.5	1072.5	1086.0
12.5°	382.8	425.7	542.4	694.8	850.8	982.2	1090.5	1156.5	1194.9	1200.0
15°	340.5	403.5	571.5	787.5	981.0	1138.5	1242.0	1294.5	1318.5	1324.5
17.5°	301.2	383.7	597.0	860.1	1089.3	1231.2	1309.8	1342.8	1354.8	1355.4
20°	270.0	364.5	609.0	910.5	1144.5	1272.0	1329.0	1350.0	1356.0	1353.0
22.5°	247.2	344.1	616.2	944.1	1178.1	1287.6	1330.2	1340.4	1342.8	1339.8
25°	217.5	310.5	616.5	988.5	1212.0	1291.5	1314.0	1317.0	1320.0	1318.5
27.5°	191.1	273.0	607.5	1017.9	1216.8	1273.2	1283.7	1291.2	1300.5	1302.6
30°	175.5	249.0	595.5	1027.5	1212.0	1254.0	1264.5	1278.0	1294.5	1299.0
32.5°	163.5	226.2	577.5	1028.7	1200.0	1231.2	1245.3	1270.8	1294.5	1301.4
35°	147.0	192.0	547.5	1020.0	1173.0	1194.0	1224.0	1266.0	1297.5	1305.0
37.5°	130.8	167.4	506.7	1002.3	1137.6	1159.5	1209.0	1259.7	1294.8	1304.1
40°	120.0	153.0	475.5	985.5	1110.0	1135.5	1197.0	1252.5	1290.0	1300.5
42.5°	111.6	141.0	441.9	963.9	1078.8	1113.9	1182.6	1241.7	1276.8	1284.9
45°	100.5	123.0	388.5	924.0	1030.5	1083.0	1158.0	1215.0	1248.0	1257.0
47.5°	90.0	110.4	332.7	878.4	981.3	1045.5	1122.3	1176.3	1206.6	1212.6
50°	84.0	102.0	295.5	846.0	946.5	1015.5	1093.5	1147.5	1173.0	1179.0
52.5°	79.2	94.8	260.7	808.8	910.5	984.3	1058.7	1107.9	1131.0	1133.4
55°	72.0	85.5	214.5	751.5	853.5	930.0	1002.0	1041.0	1057.5	1063.5
57.5°	68.1	78.6	178.2	689.4	789.3	866.1	931.5	961.8	975.0	977.1
60°	64.5	75.0	159.0	645.0	748.5	820.5	877.5	903.0	915.0	919.5
62.5°	60.9	72.6	144.6	599.4	700.5	770.1	819.9	841.8	851.4	852.3
65°	57.0	69.0	127.5	529.5	625.5	690.0	729.0	747.0	751.5	754.5
67.5°	53.1	65.4	115.2	459.0	548.1	601.5	630.3	645.9	646.8	653.1
70°	49.5	63.0	108.0	411.0	490.5	541.5	565.5	577.5	576.0	577.5
72.5°	47.1	59.4	103.2	361.8	435.3	475.5	497.1	505.5	506.4	506.7
75°	42.0	52.5	96.0	286.5	345.0	379.5	396.0	394.5	399.0	400.5
77.5°	36.3	45.3	78.9	211.2	258.6	281.4	294.6	298.8	297.3	297.6
80°	31.5	40.5	64.5	162.0	201.0	219.0	231.0	234.0	232.5	234.0
82.5°	25.5	33.3	50.1	120.0	150.6	165.0	173.4	174.0	174.9	177.6
85°	15.0	19.5	30.0	66.0	84.0	91.5	97.5	99.0	100.5	100.5
87.5°	6.0	8.4	15.6	27.6	34.8	37.2	37.2	34.8	37.2	33.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)