

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-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 (G3-2301-892-3)
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-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

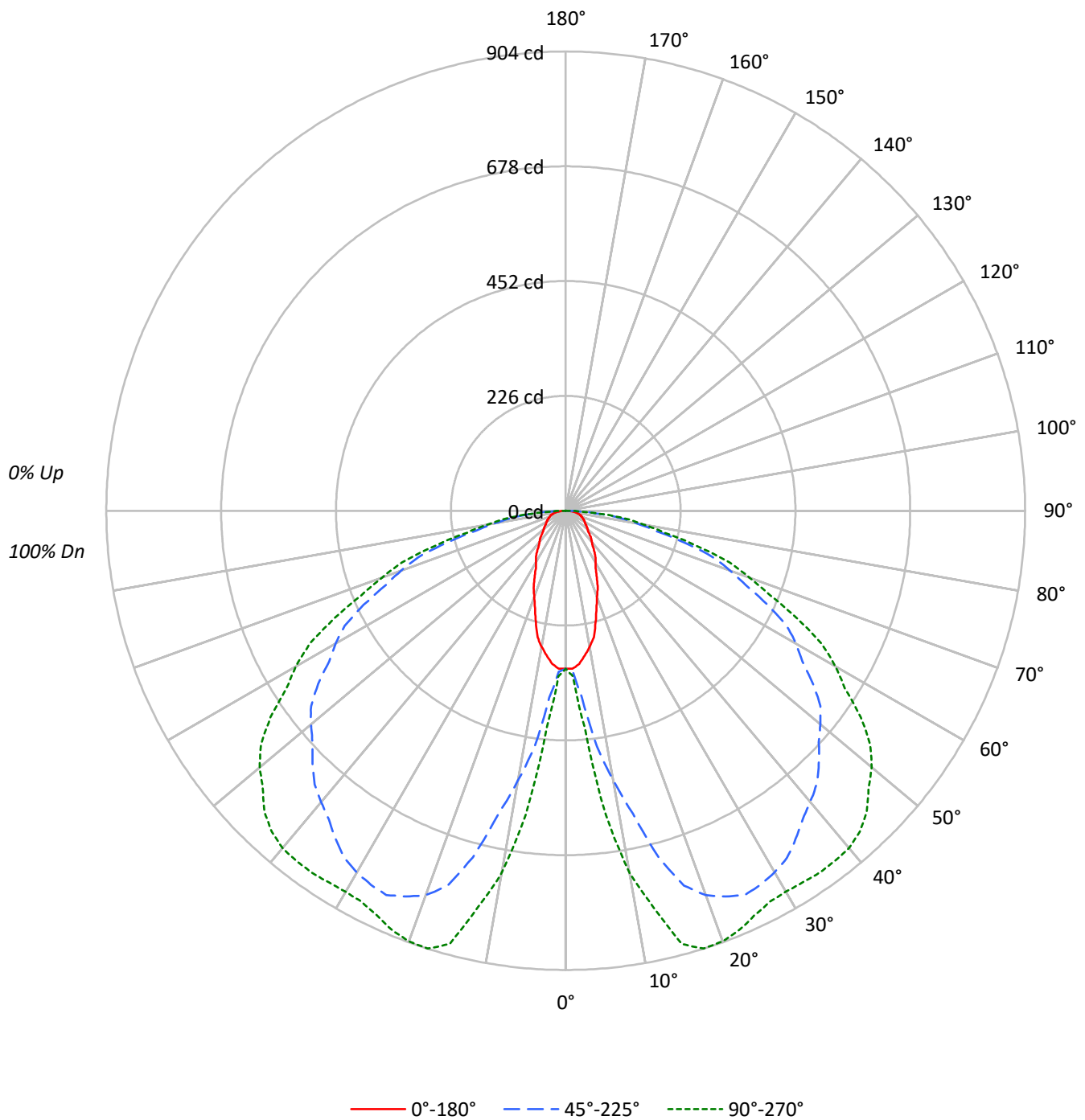
Lumens per Lamp: N/A
Luminaire Lumens: 2406.8 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Spacing Criteria (0/90/45): 0.7 / 2.7 / 2.32
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 24
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°	40.8	1.7
10°-20°	177.7	7.4
20°-30°	311.3	12.9
30°-40°	400.9	16.7
40°-50°	447.6	18.6
50°-60°	429.2	17.8
60°-70°	341.6	14.2
70°-80°	201.2	8.4
80°-90°	56.4	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°	529.8	22.0
0°-40°	930.7	38.7
0°-60°	1807.6	75.1
0°-90°	2406.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2406.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	311	311	311	311	311	
5°	303	325	368	416	429	28
15°	227	417	706	854	883	63
25°	145	473	834	878	879	67
35°	98	444	789	837	870	61
45°	67	348	704	800	838	52
55°	48	232	594	688	709	44
65°	38	152	438	495	503	38
75°	28	96	242	263	267	29
85°	10	26	58	66	67	11
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
0°	311.0	311.0	311.0	311.0	311.0	311.0	311.0	311.0	311.0	311.0
2.5°	311.0	311.0	312.6	315.0	315.8	319.0	323.8	326.2	327.8	326.2
5°	303.0	307.0	320.0	339.0	358.0	379.0	406.0	419.0	427.0	429.0
7.5°	287.2	298.2	335.2	384.8	440.0	494.8	542.2	580.6	603.0	604.0
10°	272.0	291.0	348.0	424.0	500.0	578.0	643.0	683.0	715.0	724.0
12.5°	255.2	283.8	361.6	463.2	567.2	654.8	727.0	771.0	796.6	800.0
15°	227.0	269.0	381.0	525.0	654.0	759.0	828.0	863.0	879.0	883.0
17.5°	200.8	255.8	398.0	573.4	726.2	820.8	873.2	895.2	903.2	903.6
20°	180.0	243.0	406.0	607.0	763.0	848.0	886.0	900.0	904.0	902.0
22.5°	164.8	229.4	410.8	629.4	785.4	858.4	886.8	893.6	895.2	893.2
25°	145.0	207.0	411.0	659.0	808.0	861.0	876.0	878.0	880.0	879.0
27.5°	127.4	182.0	405.0	678.6	811.2	848.8	855.8	860.8	867.0	868.4
30°	117.0	166.0	397.0	685.0	808.0	836.0	843.0	852.0	863.0	866.0
32.5°	109.0	150.8	385.0	685.8	800.0	820.8	830.2	847.2	863.0	867.6
35°	98.0	128.0	365.0	680.0	782.0	796.0	816.0	844.0	865.0	870.0
37.5°	87.2	111.6	337.8	668.2	758.4	773.0	806.0	839.8	863.2	869.4
40°	80.0	102.0	317.0	657.0	740.0	757.0	798.0	835.0	860.0	867.0
42.5°	74.4	94.0	294.6	642.6	719.2	742.6	788.4	827.8	851.2	856.6
45°	67.0	82.0	259.0	616.0	687.0	722.0	772.0	810.0	832.0	838.0
47.5°	60.0	73.6	221.8	585.6	654.2	697.0	748.2	784.2	804.4	808.4
50°	56.0	68.0	197.0	564.0	631.0	677.0	729.0	765.0	782.0	786.0
52.5°	52.8	63.2	173.8	539.2	607.0	656.2	705.8	738.6	754.0	755.6
55°	48.0	57.0	143.0	501.0	569.0	620.0	668.0	694.0	705.0	709.0
57.5°	45.4	52.4	118.8	459.6	526.2	577.4	621.0	641.2	650.0	651.4
60°	43.0	50.0	106.0	430.0	499.0	547.0	585.0	602.0	610.0	613.0
62.5°	40.6	48.4	96.4	399.6	467.0	513.4	546.6	561.2	567.6	568.2
65°	38.0	46.0	85.0	353.0	417.0	460.0	486.0	498.0	501.0	503.0
67.5°	35.4	43.6	76.8	306.0	365.4	401.0	420.2	430.6	431.2	435.4
70°	33.0	42.0	72.0	274.0	327.0	361.0	377.0	385.0	384.0	385.0
72.5°	31.4	39.6	68.8	241.2	290.2	317.0	331.4	337.0	337.6	337.8
75°	28.0	35.0	64.0	191.0	230.0	253.0	264.0	263.0	266.0	267.0
77.5°	24.2	30.2	52.6	140.8	172.4	187.6	196.4	199.2	198.2	198.4
80°	21.0	27.0	43.0	108.0	134.0	146.0	154.0	156.0	155.0	156.0
82.5°	17.0	22.2	33.4	80.0	100.4	110.0	115.6	116.0	116.6	118.4
85°	10.0	13.0	20.0	44.0	56.0	61.0	65.0	66.0	67.0	67.0
87.5°	4.0	5.6	10.4	18.4	23.2	24.8	24.8	23.2	24.8	22.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)