

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-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-935-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

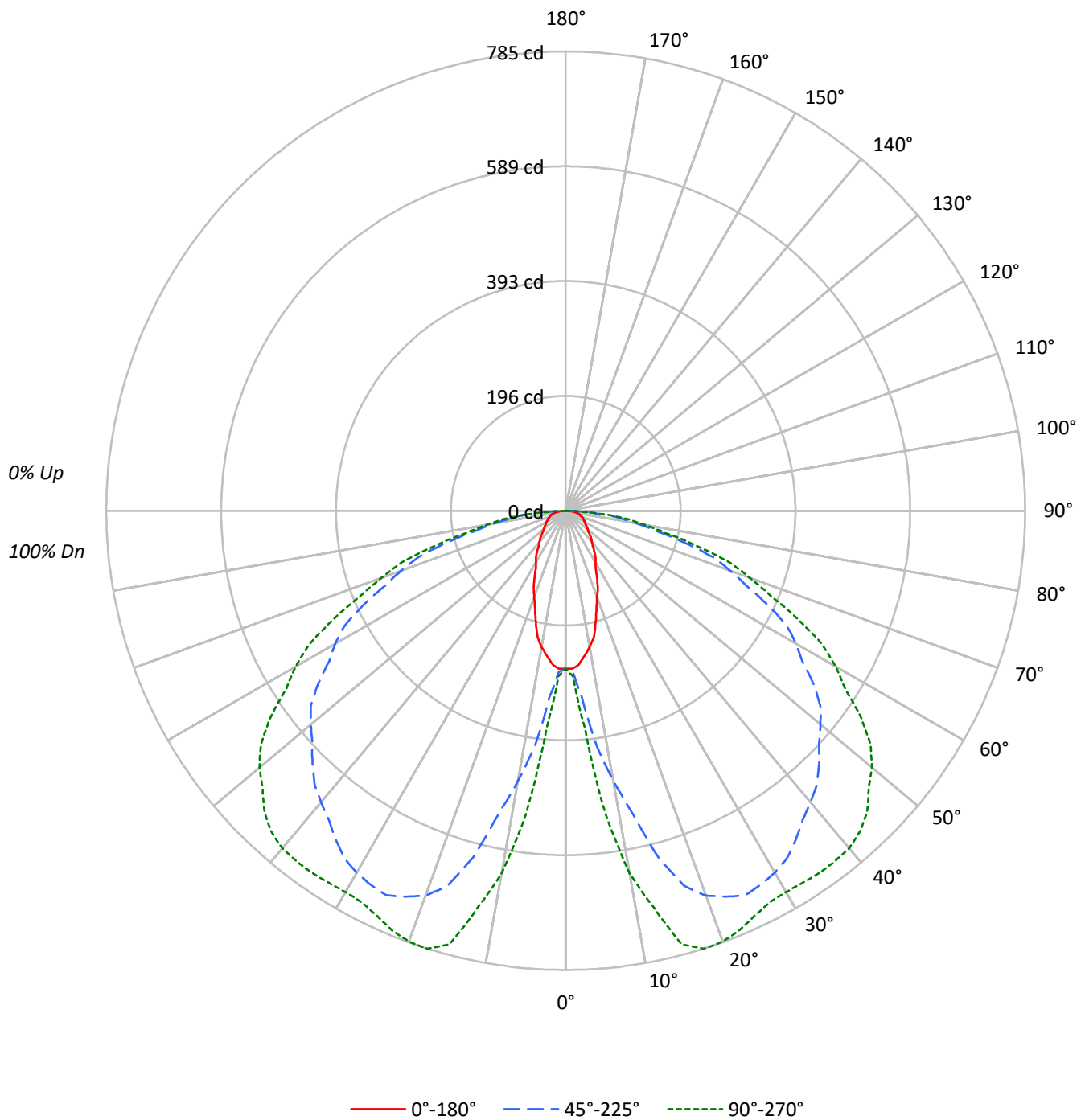
Lumens per Lamp: N/A
Luminaire Lumens: 2091.2 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Spacing Criteria (0/90/45): 0.7 / 2.7 / 2.32
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

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	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°	2439	2966	3453
10°	2214	4387	5894
15°	1884	5864	7328
20°	1536	6872	7695
25°	1283	7382	7775
30°	1083	7609	8017
35°	960	7721	8514
40°	837	7833	9073
45°	759	7987	9500
50°	699	8156	9802
55°	671	8309	9909
60°	690	8386	9828
65°	720	8318	9542
70°	774	8063	9023
75°	866	7479	8270
80°	967	6463	7199
85°	921	5383	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°	35.4	1.7
10°-20°	154.4	7.4
20°-30°	270.5	12.9
30°-40°	348.3	16.7
40°-50°	388.9	18.6
50°-60°	373.0	17.8
60°-70°	296.8	14.2
70°-80°	174.9	8.4
80°-90°	49.0	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°	460.3	22.0
0°-40°	808.7	38.7
0°-60°	1570.6	75.1
0°-90°	2091.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2091.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	270	270	270	270	270	
5°	263	282	320	361	373	24
15°	197	362	614	742	767	55
25°	126	411	725	762	764	58
35°	85	386	686	727	756	53
45°	58	303	612	696	728	45
55°	42	202	517	597	616	38
65°	33	132	381	430	437	33
75°	24	83	210	229	232	25
85°	9	23	51	57	58	10
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
0°	270.2	270.2	270.2	270.2	270.2	270.2	270.2	270.2	270.2	270.2
2.5°	270.2	270.2	271.6	273.7	274.4	277.2	281.3	283.4	284.8	283.4
5°	263.3	266.7	278.0	294.6	311.1	329.3	352.8	364.1	371.0	372.8
7.5°	249.5	259.1	291.3	334.3	382.3	429.9	471.1	504.5	523.9	524.8
10°	236.3	252.8	302.4	368.4	434.4	502.2	558.7	593.5	621.3	629.1
12.5°	221.7	246.6	314.2	402.5	492.8	569.0	631.7	669.9	692.2	695.1
15°	197.2	233.7	331.0	456.2	568.3	659.5	719.4	749.9	763.8	767.2
17.5°	174.5	222.3	345.8	498.2	631.0	713.2	758.7	777.8	784.8	785.1
20°	156.4	211.1	352.8	527.4	663.0	736.8	769.8	782.0	785.5	783.7
22.5°	143.2	199.3	356.9	546.9	682.4	745.9	770.5	776.4	777.8	776.1
25°	126.0	179.9	357.1	572.6	702.1	748.1	761.1	762.9	764.6	763.8
27.5°	110.7	158.1	351.9	589.6	704.8	737.5	743.6	747.9	753.3	754.5
30°	101.7	144.2	344.9	595.2	702.1	726.4	732.5	740.3	749.9	752.5
32.5°	94.7	131.0	334.5	595.9	695.1	713.2	721.4	736.1	749.9	753.9
35°	85.2	111.2	317.1	590.8	679.5	691.6	709.0	733.3	751.6	755.9
37.5°	75.8	97.0	293.5	580.6	659.0	671.7	700.3	729.7	750.0	755.4
40°	69.5	88.6	275.4	570.9	643.0	657.8	693.4	725.5	747.2	753.3
42.5°	64.6	81.7	256.0	558.3	624.9	645.2	685.0	719.3	739.6	744.3
45°	58.2	71.2	225.0	535.2	596.9	627.3	670.8	703.8	722.9	728.1
47.5°	52.1	64.0	192.7	508.8	568.4	605.6	650.1	681.4	698.9	702.4
50°	48.7	59.1	171.2	490.1	548.3	588.2	633.4	664.7	679.5	682.9
52.5°	45.9	54.9	151.0	468.5	527.4	570.2	613.3	641.8	655.1	656.5
55°	41.7	49.5	124.3	435.3	494.4	538.7	580.4	603.0	612.6	616.0
57.5°	39.4	45.5	103.2	399.3	457.2	501.7	539.6	557.1	564.8	566.0
60°	37.4	43.4	92.1	373.6	433.6	475.3	508.3	523.1	530.0	532.6
62.5°	35.3	42.1	83.8	347.2	405.8	446.1	474.9	487.6	493.2	493.7
65°	33.0	40.0	73.9	306.7	362.3	399.7	422.3	432.7	435.3	437.1
67.5°	30.8	37.9	66.7	265.9	317.5	348.4	365.1	374.1	374.7	378.3
70°	28.7	36.5	62.6	238.1	284.1	313.7	327.6	334.5	333.7	334.5
72.5°	27.3	34.4	59.8	209.6	252.2	275.4	288.0	292.8	293.3	293.5
75°	24.3	30.4	55.6	166.0	199.8	219.8	229.4	228.5	231.1	232.0
77.5°	21.0	26.2	45.7	122.3	149.8	163.0	170.7	173.1	172.2	172.4
80°	18.2	23.5	37.4	93.8	116.4	126.9	133.8	135.5	134.7	135.5
82.5°	14.8	19.3	29.0	69.5	87.2	95.6	100.4	100.8	101.3	102.9
85°	8.7	11.3	17.4	38.2	48.7	53.0	56.5	57.3	58.2	58.2
87.5°	3.5	4.9	9.0	16.0	20.2	21.5	21.5	20.2	21.5	19.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)