

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-PW1-0U-100D-927-1D-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 ()
Test Lab: INNOVATION CENTER
Issue Date: 8/1/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-PW1-0U-100D-927-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
DIRECT ONLY
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

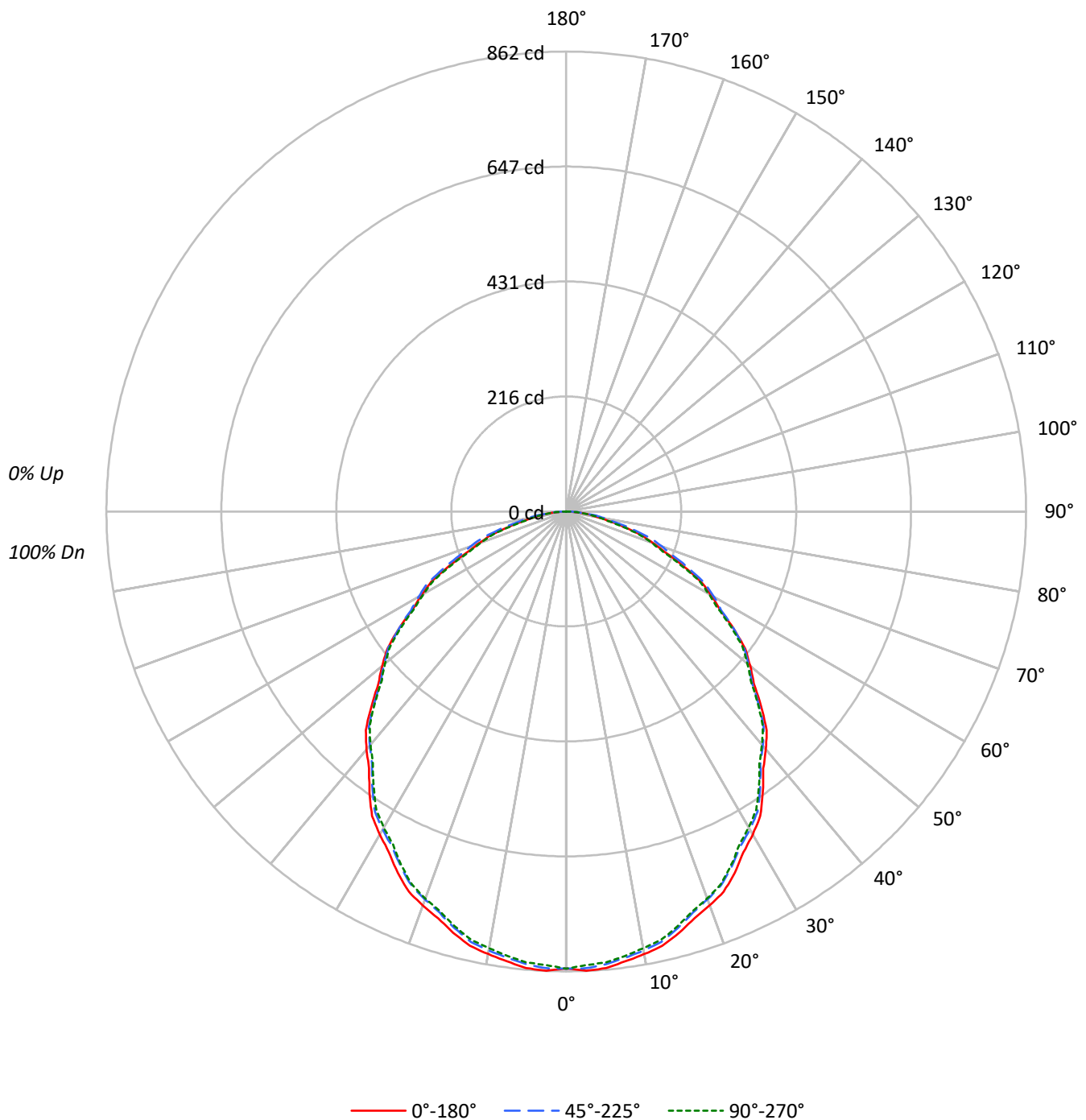
Lumens per Lamp: N/A
Luminaire Lumens: 2180.1 lumens
Efficiency: N/A
Efficacy: 39.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Direct

Input Watts (W): 55.3
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	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	76	73
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33
9	58	44	36	31	56	44	36	31	43	35	31	42	35	30	41	35	30
10	54	41	33	28	53	40	33	28	39	33	28	39	32	28	38	32	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5271	5271	5271
5°	5304	5262	5240
10°	5262	5220	5191
15°	5206	5149	5129
20°	5144	5065	5055
25°	5072	4980	4964
30°	4965	4890	4858
35°	4824	4756	4728
40°	4674	4601	4582
45°	4492	4433	4413
50°	4306	4270	4241
55°	4105	4105	4040
60°	3854	3928	3789
65°	3526	3703	3439
70°	3109	3408	3028
75°	2655	3049	2583
80°	2058	2568	2086
85°	1334	1969	1757

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4492 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.7	3.7
10°-20°	227.8	10.4
20°-30°	337.9	15.5
30°-40°	395.4	18.1
40°-50°	393.6	18.1
50°-60°	339.9	15.6
60°-70°	244.7	11.2
70°-80°	128.3	5.9
80°-90°	31.8	1.5
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°	646.4	29.6
0°-40°	1041.8	47.8
0°-60°	1775.3	81.4
0°-90°	2180.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2180.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	857	857	857	857	857	
5°	859	850	852	850	849	81
15°	818	807	809	807	806	230
25°	747	735	734	729	732	344
35°	642	634	633	627	630	402
45°	516	512	510	508	507	398
55°	383	382	383	378	377	342
65°	242	250	254	244	236	240
75°	112	122	128	120	109	120
85°	19	25	28	26	25	26
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	856.9	856.9	856.9	856.9	856.9
2.5°	861.7	854.6	856.9	855.0	850.8
5°	859.1	849.5	852.3	850.0	848.6
7.5°	850.4	841.5	843.6	841.1	840.3
10°	842.5	833.7	835.7	832.7	831.2
12.5°	833.5	824.0	826.1	823.0	822.1
15°	817.6	807.3	808.6	807.0	805.5
17.5°	799.2	788.7	788.9	786.5	786.2
20°	785.9	774.8	773.8	770.8	772.3
22.5°	771.4	759.7	758.7	754.5	756.6
25°	747.4	734.9	733.8	729.3	731.5
27.5°	719.6	707.2	707.2	701.0	703.3
30°	699.1	687.3	688.5	681.0	684.0
32.5°	677.3	666.7	667.4	659.9	662.8
35°	642.5	633.6	633.4	627.4	629.6
37.5°	606.8	599.0	597.8	594.3	594.9
40°	582.1	575.4	573.0	570.7	570.7
42.5°	556.1	550.0	547.6	546.0	545.4
45°	516.4	512.0	509.6	508.1	507.3
47.5°	477.1	473.0	470.9	469.9	469.1
50°	450.0	447.0	446.2	443.9	443.2
52.5°	422.8	421.0	420.2	417.3	416.6
55°	382.8	382.0	382.8	377.5	376.7
57.5°	341.1	342.3	344.7	337.6	335.8
60°	313.3	316.3	319.3	311.0	308.0
62.5°	284.9	289.6	294.0	284.4	280.2
65°	242.3	249.7	254.4	244.4	236.3
67.5°	201.3	210.4	216.1	205.3	196.1
70°	172.9	183.2	189.5	178.7	168.4
72.5°	148.1	159.6	164.7	154.5	144.2
75°	111.7	122.1	128.3	119.8	108.7
77.5°	79.3	89.0	94.2	86.8	77.6
80°	58.1	68.5	72.5	66.3	58.9
82.5°	41.2	49.8	52.5	48.8	43.8
85°	18.9	24.8	27.9	26.4	24.9
87.5°	4.8	9.0	11.5	11.5	12.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)