

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P521504

Luminaire Tested: **SQ4-F-0U-050D-93050-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P521504
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-32)
Test Lab: INNOVATION CENTER
Issue Date: 5/5/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-F-0U-050D-93050-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

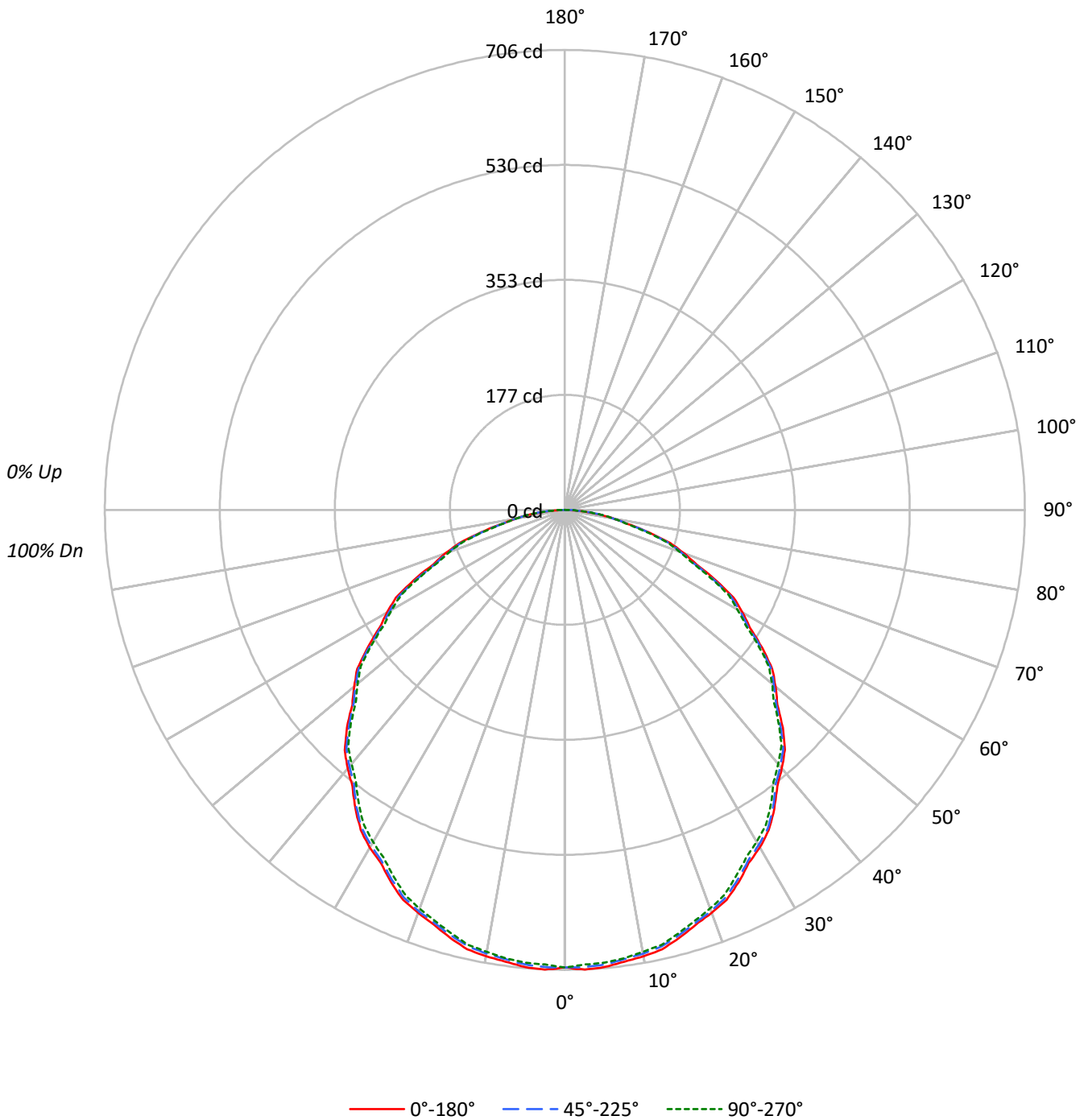
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2000.0 lumens
Efficiency: N/A
Efficacy: 95.7 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.25 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 20.9
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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84				84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70				70
3	90	79	71	65	88	78	70	64	75	68	63	72	66	62	69	65	61	59				59
4	82	70	61	55	80	69	61	54	66	59	54	64	58	53	62	57	52	50				50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43				43
6	70	56	47	41	68	56	47	41	54	46	40	52	45	40	50	44	40	38				38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33				33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30				30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27				27
10	53	40	32	26	51	39	31	26	38	31	26	37	31	26	36	30	26	24				24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6481	6481	6481
5°	6525	6489	6461
10°	6518	6481	6453
15°	6495	6458	6429
20°	6464	6435	6397
25°	6423	6383	6323
30°	6376	6335	6272
35°	6311	6277	6210
40°	6240	6193	6133
45°	6170	6106	6055
50°	6056	6014	5958
55°	5950	5887	5825
60°	5813	5722	5648
65°	5591	5440	5377
70°	5241	5109	5055
75°	4755	4616	4549
80°	3964	4017	3910
85°	2805	3324	3324



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.5	3.3
10°-20°	190.4	9.5
20°-30°	287.8	14.4
30°-40°	346.6	17.3
40°-50°	359.9	18.0
50°-60°	326.5	16.3
60°-70°	247.6	12.4
70°-80°	138.1	6.9
80°-90°	36.5	1.8
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°	544.7	27.2
0°-40°	891.3	44.6
0°-60°	1577.7	78.9
0°-90°	2000.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2000.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	702	702	702	702	702	
5°	704	699	701	699	698	67
15°	680	672	676	674	673	192
25°	631	624	627	621	621	291
35°	560	554	557	550	551	350
45°	473	468	468	463	464	364
55°	370	369	366	362	362	330
65°	256	253	249	246	246	253
75°	133	132	130	128	128	141
85°	26	29	31	31	31	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	702.5	702.5	702.5	702.5	702.5
2.5°	706.5	701.1	702.5	701.7	698.6
5°	704.5	698.8	700.6	698.6	697.6
7.5°	699.6	693.7	695.7	693.7	694.3
10°	695.7	689.0	691.8	689.8	688.8
12.5°	691.0	683.5	686.3	683.5	684.1
15°	680.0	672.3	676.1	674.1	673.1
17.5°	667.8	661.1	664.9	661.7	661.7
20°	658.4	651.7	655.4	651.5	651.5
22.5°	648.2	640.7	644.5	639.7	639.7
25°	630.9	624.2	627.0	621.1	621.1
27.5°	611.1	604.2	608.0	602.1	602.1
30°	598.5	590.9	594.6	588.7	588.7
32.5°	582.8	577.5	579.7	573.8	573.8
35°	560.3	554.5	557.3	550.5	551.4
37.5°	535.3	531.3	531.4	525.4	526.5
40°	518.1	513.3	514.2	507.3	509.2
42.5°	500.0	496.0	496.1	490.8	492.0
45°	472.9	468.1	468.0	463.2	464.1
47.5°	442.3	439.8	439.4	433.7	434.7
50°	421.9	421.0	419.0	414.1	415.1
52.5°	401.5	400.6	398.6	393.7	394.6
55°	369.9	369.0	366.0	362.1	362.1
57.5°	336.9	336.0	332.8	328.9	328.9
60°	315.0	314.0	310.1	306.1	306.1
62.5°	292.2	290.5	286.5	283.4	283.4
65°	256.1	253.2	249.2	246.3	246.3
67.5°	218.6	216.7	213.7	211.0	211.0
70°	194.3	192.4	189.4	187.4	187.4
72.5°	169.9	168.0	165.0	163.1	163.1
75°	133.4	131.5	129.5	127.6	127.6
77.5°	97.3	96.8	96.7	94.8	94.8
80°	74.6	75.5	75.6	73.6	73.6
82.5°	53.4	55.1	55.9	55.5	55.5
85°	26.5	29.4	31.4	31.4	31.4
87.5°	7.8	10.2	12.6	12.6	12.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)