

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: P521506

Luminaire Tested: **SQ4-F-0U-050D-93050-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P521506
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 (4000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

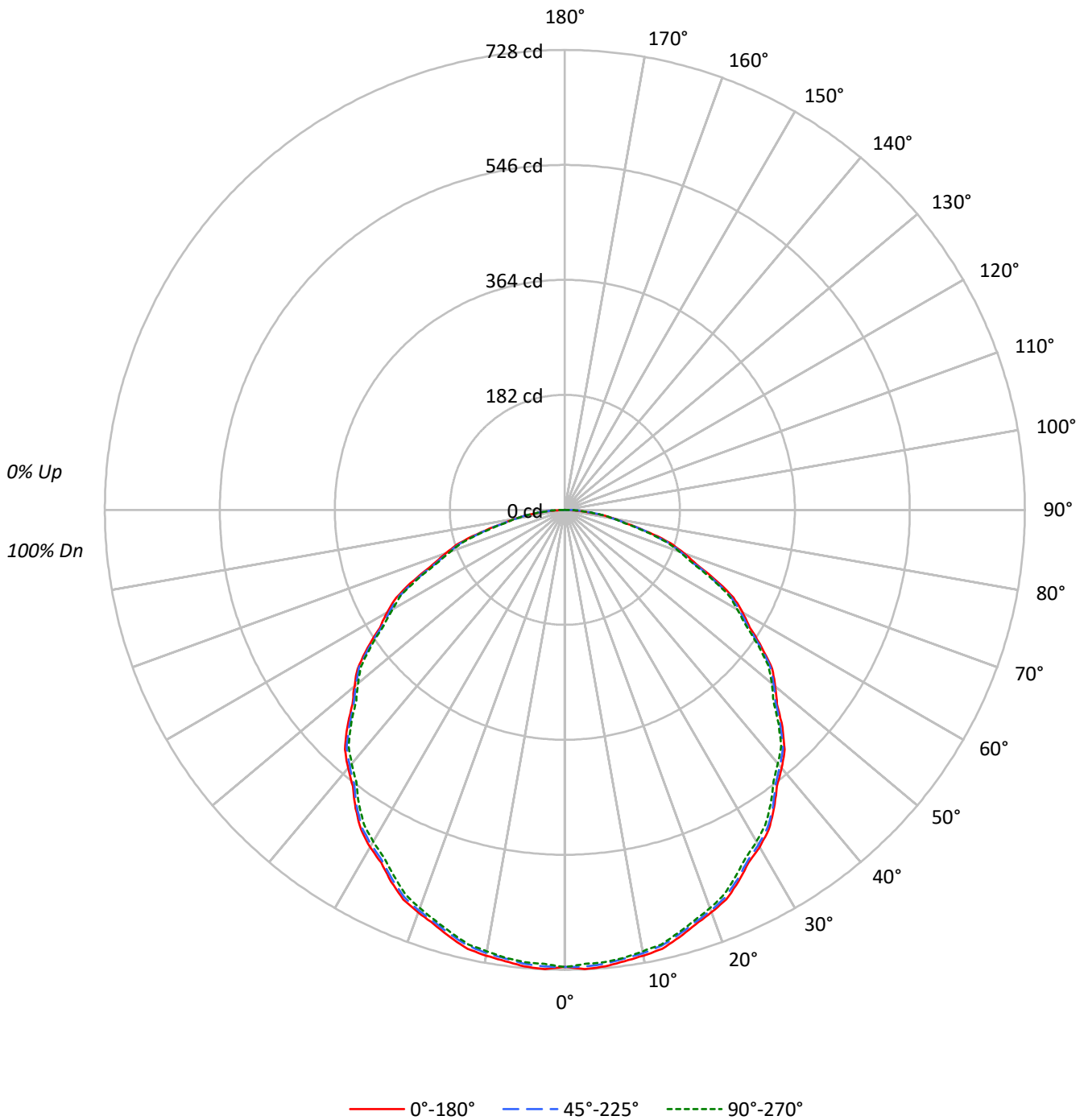
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2059.9 lumens
Efficiency: N/A
Efficacy: 98.6 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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	109	104	100	96	106	102	98	94	97	94	91		93	91	88		90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75		82	77	73		79	75	72	70
3	90	79	71	65	88	78	70	64	75	68	63		72	66	62		69	65	61	59
4	82	70	61	55	80	69	61	54	66	59	54		64	58	53		62	57	52	50
5	76	63	54	47	74	62	53	47	59	52	46		57	51	46		56	50	45	43
6	70	56	47	41	68	56	47	41	54	46	40		52	45	40		50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36		47	41	35		46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32		43	37	32		42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29		40	33	29		39	33	28	27
10	53	40	32	26	51	39	31	26	38	31	26		37	31	26		36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6676	6676	6676
5°	6720	6683	6655
10°	6713	6675	6647
15°	6690	6651	6622
20°	6658	6628	6589
25°	6615	6574	6512
30°	6568	6524	6460
35°	6500	6465	6397
40°	6427	6378	6317
45°	6356	6290	6237
50°	6238	6194	6136
55°	6129	6064	5998
60°	5986	5894	5818
65°	5759	5604	5539
70°	5398	5263	5206
75°	4898	4755	4684
80°	4081	4134	4027
85°	2890	3419	3419



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.5	3.3
10°-20°	196.1	9.5
20°-30°	296.4	14.4
30°-40°	357.0	17.3
40°-50°	370.7	18.0
50°-60°	336.3	16.3
60°-70°	255.0	12.4
70°-80°	142.2	6.9
80°-90°	37.6	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°	561.0	27.2
0°-40°	918.0	44.6
0°-60°	1625.1	78.9
0°-90°	2059.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2059.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	724	724	724	724	724	
5°	726	720	722	720	719	69
15°	700	692	696	694	693	198
25°	650	643	646	640	640	299
35°	577	571	574	567	568	361
45°	487	482	482	477	478	375
55°	381	380	377	373	373	340
65°	264	261	257	254	254	260
75°	137	136	133	131	131	145
85°	27	30	32	32	32	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	723.6	723.6	723.6	723.6	723.6
2.5°	727.7	722.1	723.6	722.7	719.6
5°	725.6	719.7	721.6	719.6	718.6
7.5°	720.6	714.5	716.5	714.5	715.1
10°	716.5	709.6	712.5	710.5	709.5
12.5°	711.7	704.0	706.8	704.0	704.6
15°	700.4	692.5	696.3	694.3	693.3
17.5°	687.8	680.9	684.8	681.6	681.6
20°	678.1	671.2	675.1	671.1	671.1
22.5°	667.6	659.9	663.8	658.9	658.9
25°	649.8	642.9	645.8	639.7	639.7
27.5°	629.4	622.3	626.2	620.1	620.1
30°	616.5	608.6	612.4	606.4	606.4
32.5°	600.3	594.8	597.1	591.0	591.0
35°	577.1	571.1	574.0	567.0	568.0
37.5°	551.4	547.3	547.4	541.1	542.3
40°	533.6	528.7	529.6	522.5	524.5
42.5°	515.0	510.9	511.0	505.5	506.7
45°	487.1	482.2	482.1	477.0	478.0
47.5°	455.6	453.0	452.6	446.7	447.7
50°	434.6	433.6	431.5	426.5	427.5
52.5°	413.6	412.6	410.5	405.5	406.5
55°	381.0	380.0	377.0	372.9	372.9
57.5°	347.1	346.1	342.8	338.8	338.8
60°	324.4	323.4	319.4	315.3	315.3
62.5°	301.0	299.2	295.1	291.9	291.9
65°	263.8	260.8	256.7	253.7	253.7
67.5°	225.2	223.2	220.1	217.3	217.3
70°	200.1	198.1	195.1	193.0	193.0
72.5°	175.0	173.1	170.0	168.0	168.0
75°	137.4	135.5	133.4	131.4	131.4
77.5°	100.3	99.7	99.6	97.6	97.6
80°	76.8	77.8	77.8	75.8	75.8
82.5°	55.0	56.8	57.6	57.2	57.2
85°	27.3	30.3	32.3	32.3	32.3
87.5°	8.1	10.5	12.9	12.9	12.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)