

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

(formerly Eaton)

Brand: CORELITE

Report Number: P564831

Luminaire Tested: **SQ4-PW1-0U-050D-940-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564831  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PW1-0U-050D-940-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

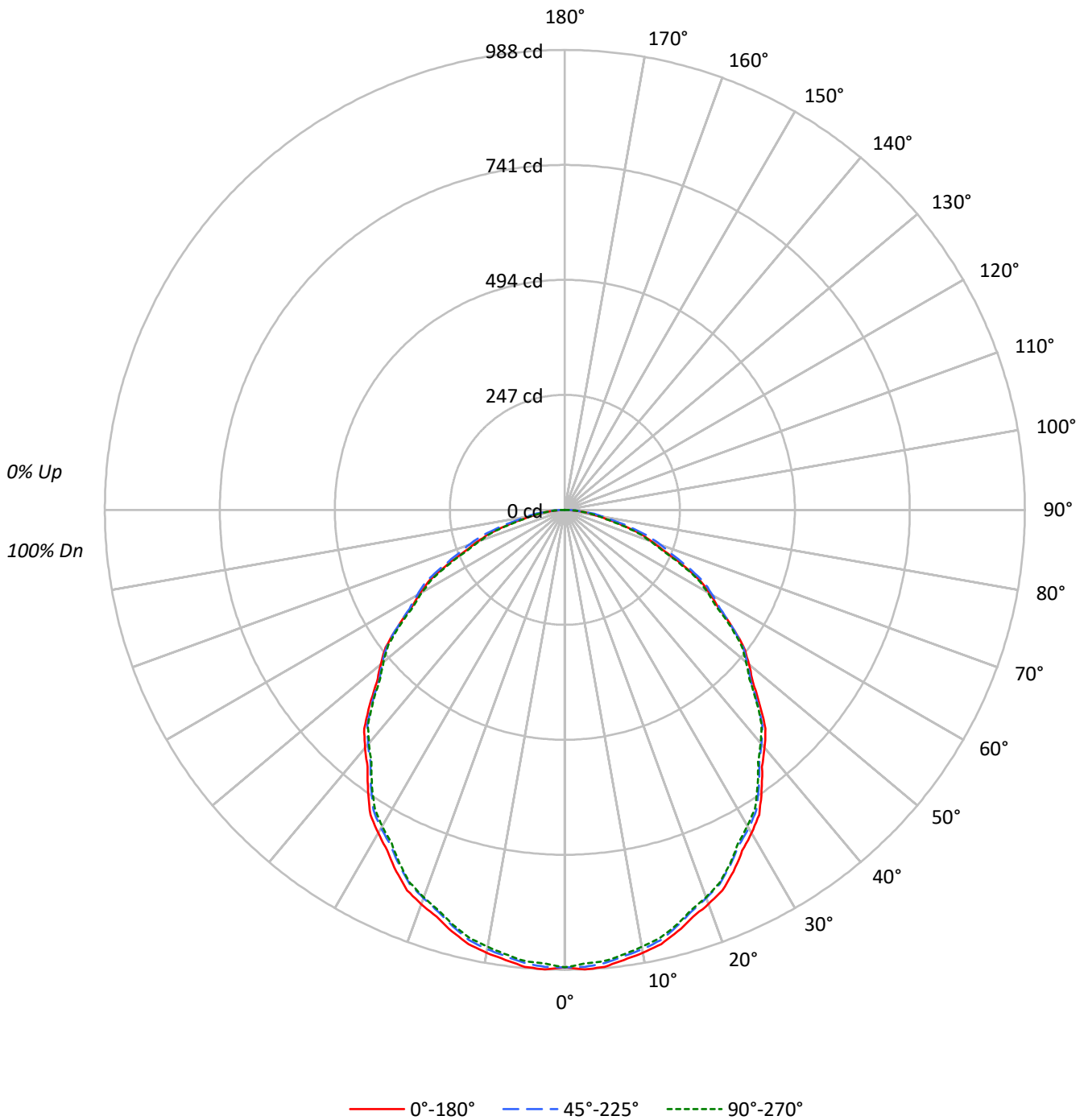
Lumens per Lamp: N/A  
Luminaire Lumens: 2500.1 lumens  
Efficiency: N/A  
Efficacy: 93.6 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Direct

Input Watts (W): 26.7  
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	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	31	42	35	30	41	35	30	28
10	54	41	33	28	53	40	33	28	39	33	28	39	32	28	38	32	28	26

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	6044	6044	6044
5°	6084	6035	6008
10°	6035	5986	5953
15°	5970	5904	5883
20°	5900	5809	5797
25°	5817	5711	5693
30°	5694	5608	5571
35°	5532	5454	5422
40°	5360	5276	5255
45°	5151	5083	5061
50°	4938	4896	4863
55°	4707	4707	4633
60°	4420	4505	4345
65°	4045	4247	3944
70°	3566	3908	3473
75°	3044	3498	2963
80°	2363	2943	2391
85°	1524	2258	2018



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.5	3.7
10°-20°	261.2	10.4
20°-30°	387.5	15.5
30°-40°	453.4	18.1
40°-50°	451.4	18.1
50°-60°	389.8	15.6
60°-70°	280.6	11.2
70°-80°	147.1	5.9
80°-90°	36.5	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°	741.3	29.6
0°-40°	1194.7	47.8
0°-60°	2035.9	81.4
0°-90°	2500.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2500.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	983	983	983	983	983	
5°	985	974	978	975	973	93
15°	938	926	927	926	924	264
25°	857	843	842	836	839	394
35°	737	727	726	720	722	461
45°	592	587	584	583	582	457
55°	439	438	439	433	432	392
65°	278	286	292	280	271	275
75°	128	140	147	137	125	137
85°	22	28	32	30	29	29
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	982.7	982.7	982.7	982.7	982.7
2.5°	988.2	980.1	982.7	980.5	975.7
5°	985.3	974.2	977.5	974.8	973.1
7.5°	975.2	965.1	967.4	964.6	963.6
10°	966.2	956.0	958.4	954.9	953.2
12.5°	955.8	945.0	947.3	943.8	942.8
15°	937.6	925.8	927.2	925.5	923.8
17.5°	916.5	904.5	904.7	902.0	901.6
20°	901.3	888.6	887.4	884.0	885.7
22.5°	884.7	871.3	870.1	865.3	867.7
25°	857.1	842.7	841.5	836.4	838.9
27.5°	825.3	811.0	811.1	803.8	806.6
30°	801.7	788.2	789.6	781.0	784.4
32.5°	776.8	764.6	765.3	756.8	760.2
35°	736.8	726.6	726.4	719.5	722.1
37.5°	695.9	686.9	685.5	681.6	682.2
40°	667.5	659.9	657.1	654.5	654.5
42.5°	637.7	630.8	628.0	626.1	625.4
45°	592.2	587.1	584.4	582.6	581.8
47.5°	547.2	542.4	540.1	538.8	538.0
50°	516.0	512.6	511.7	509.1	508.2
52.5°	484.8	482.8	481.9	478.6	477.7
55°	438.9	438.1	438.9	432.9	432.0
57.5°	391.2	392.5	395.3	387.1	385.1
60°	359.3	362.7	366.2	356.6	353.2
62.5°	326.7	332.2	337.1	326.1	321.4
65°	277.9	286.4	291.8	280.3	271.0
67.5°	230.8	241.3	247.8	235.4	224.9
70°	198.3	210.1	217.3	204.9	193.1
72.5°	169.9	183.1	188.9	177.2	165.4
75°	128.1	140.0	147.2	137.4	124.7
77.5°	90.9	102.1	108.0	99.5	89.0
80°	66.7	78.5	83.1	76.0	67.5
82.5°	47.3	57.1	60.3	56.0	50.2
85°	21.6	28.4	32.0	30.3	28.6
87.5°	5.5	10.3	13.2	13.2	13.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)