

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: P564877

Luminaire Tested: **SQ4-PW1-0U-100D-940-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564877  
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-100D-940-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

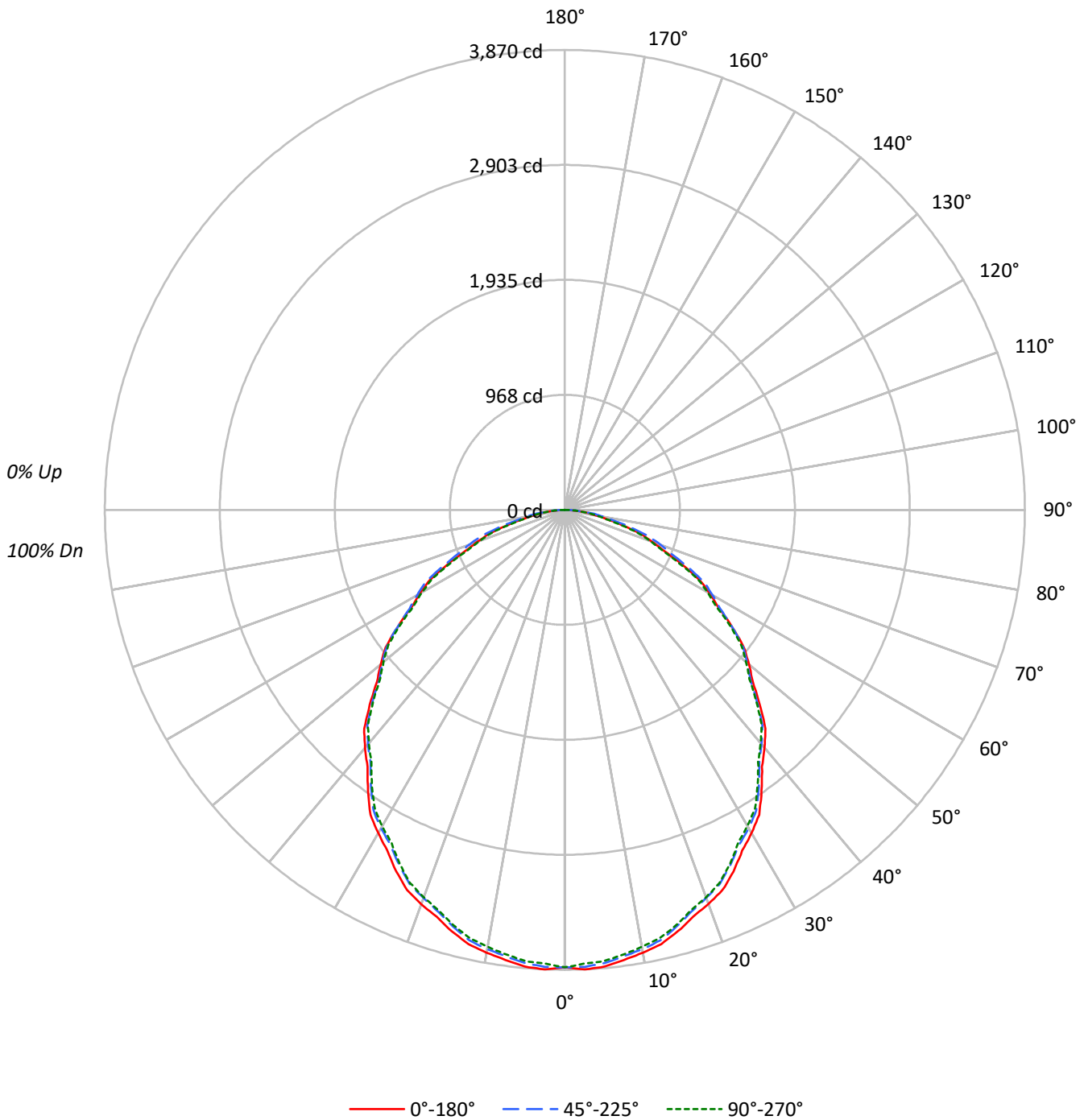
Lumens per Lamp: N/A  
Luminaire Lumens: 9792.3 lumens  
Efficiency: N/A  
Efficacy: 90.5 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: Direct

Input Watts (W): 108.2  
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°	11837	11837	11837
5°	11913	11819	11767
10°	11818	11723	11659
15°	11693	11563	11520
20°	11553	11376	11353
25°	11392	11184	11150
30°	11151	10982	10910
35°	10834	10681	10618
40°	10496	10333	10292
45°	10088	9955	9911
50°	9669	9589	9523
55°	9218	9218	9073
60°	8656	8823	8510
65°	7921	8316	7724
70°	6982	7653	6800
75°	5964	6850	5802
80°	4624	5765	4684
85°	2992	4428	3949



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	362.4	3.7
10°-20°	1023.2	10.4
20°-30°	1517.8	15.5
30°-40°	1775.9	18.1
40°-50°	1768.0	18.1
50°-60°	1526.8	15.6
60°-70°	1099.0	11.2
70°-80°	576.3	5.9
80°-90°	142.9	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°	2903.4	29.6
0°-40°	4679.4	47.8
0°-60°	7974.1	81.4
0°-90°	9792.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9792.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3849	3849	3849	3849	3849	
5°	3859	3816	3828	3818	3812	366
15°	3672	3626	3632	3625	3618	1035
25°	3357	3301	3296	3276	3286	1544
35°	2886	2846	2845	2818	2828	1804
45°	2319	2300	2289	2282	2279	1790
55°	1719	1716	1719	1695	1692	1534
65°	1088	1122	1143	1098	1061	1079
75°	502	548	576	538	488	538
85°	85	111	126	118	112	115
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3848.8	3848.8	3848.8	3848.8	3848.8
2.5°	3870.5	3838.7	3848.8	3840.2	3821.7
5°	3859.0	3815.8	3828.4	3818.1	3811.5
7.5°	3819.6	3779.8	3789.1	3778.2	3774.2
10°	3784.4	3744.6	3753.8	3740.1	3733.5
12.5°	3743.7	3701.2	3710.4	3696.8	3692.8
15°	3672.4	3626.0	3631.8	3624.8	3618.2
17.5°	3589.7	3542.6	3543.6	3532.7	3531.4
20°	3530.0	3480.3	3475.8	3462.4	3469.0
22.5°	3464.9	3412.5	3408.0	3389.2	3398.5
25°	3357.1	3300.7	3296.0	3275.9	3285.9
27.5°	3232.3	3176.6	3176.7	3148.4	3159.1
30°	3140.1	3087.0	3092.6	3059.0	3072.2
32.5°	3042.4	2994.7	2997.6	2964.0	2977.3
35°	2885.7	2845.9	2845.0	2818.1	2828.1
37.5°	2725.7	2690.5	2685.0	2669.5	2672.1
40°	2614.5	2584.6	2573.8	2563.6	2563.6
42.5°	2497.8	2470.6	2459.8	2452.3	2449.7
45°	2319.4	2299.5	2288.9	2282.1	2278.7
47.5°	2143.1	2124.5	2115.3	2110.5	2107.2
50°	2021.0	2007.8	2004.1	1993.8	1990.5
52.5°	1899.0	1891.0	1887.4	1874.5	1871.2
55°	1719.2	1715.9	1719.2	1695.4	1692.1
57.5°	1532.1	1537.4	1548.3	1516.3	1508.3
60°	1407.3	1420.5	1434.4	1396.8	1383.5
62.5°	1279.8	1301.0	1320.5	1277.3	1258.7
65°	1088.5	1121.7	1142.8	1097.9	1061.4
67.5°	904.0	945.2	970.5	922.1	881.0
70°	776.5	823.0	851.1	802.6	756.2
72.5°	665.3	717.0	739.9	694.1	647.7
75°	501.9	548.3	576.5	538.0	488.3
77.5°	356.1	399.8	423.2	389.7	348.6
80°	261.1	307.5	325.5	297.7	264.5
82.5°	185.1	223.6	236.0	219.2	196.7
85°	84.8	111.3	125.5	118.5	111.9
87.5°	21.7	40.3	51.5	51.6	54.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)