

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: P564901

Luminaire Tested: **SQ4-PW1-0U-125D-940-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564901  
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-125D-940-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

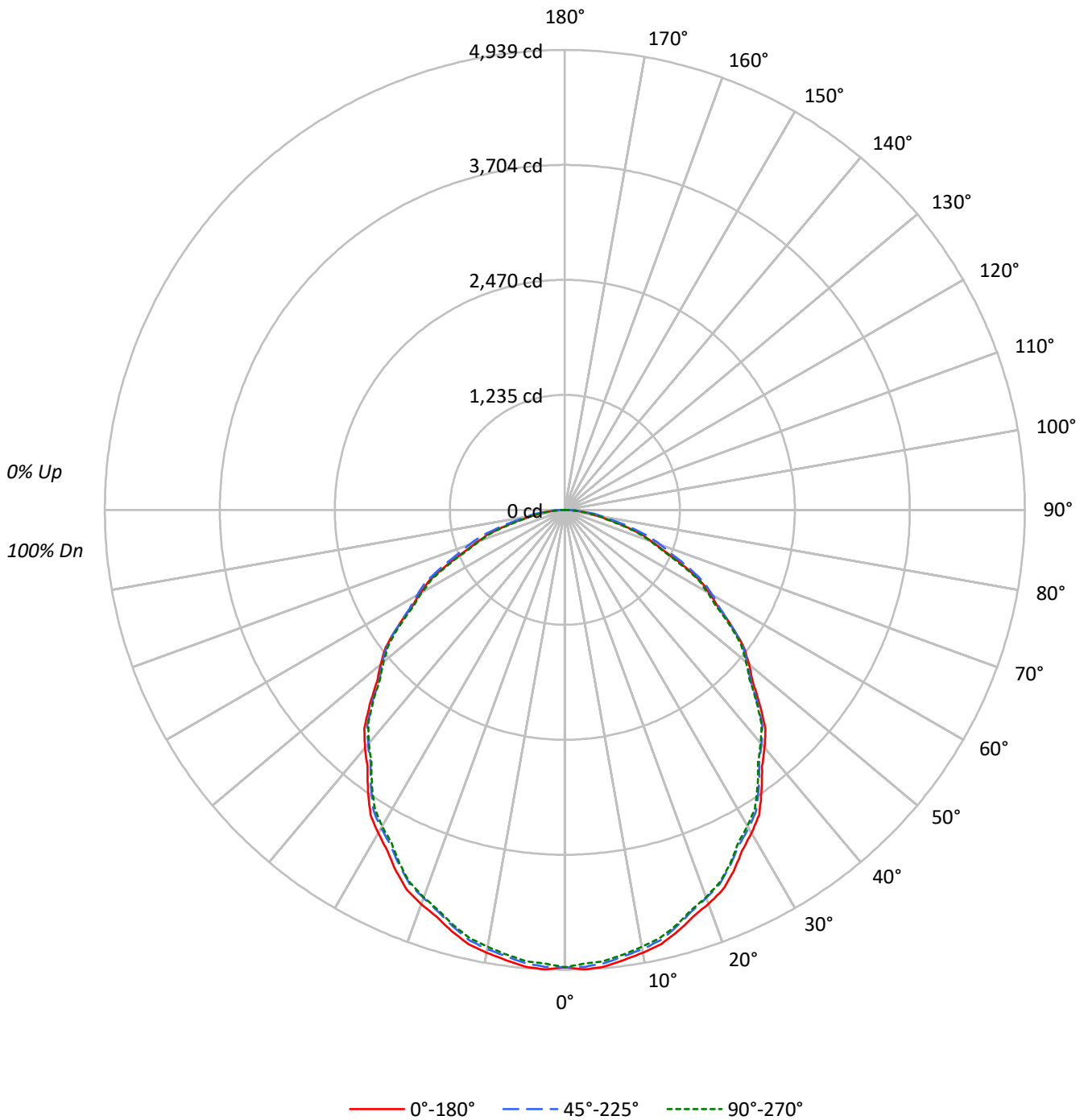
Lumens per Lamp: N/A  
Luminaire Lumens: 12496.3 lumens  
Efficiency: N/A  
Efficacy: 88.8 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: Direct

Input Watts (W): 140.8  
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°	15105	15105	15105
5°	15203	15083	15016
10°	15081	14960	14878
15°	14921	14756	14701
20°	14743	14516	14488
25°	14537	14273	14229
30°	14230	14015	13923
35°	13826	13631	13550
40°	13394	13186	13134
45°	12873	12704	12648
50°	12340	12236	12154
55°	11764	11764	11578
60°	11046	11259	10860
65°	10109	10612	9857
70°	8911	9767	8677
75°	7610	8742	7404
80°	5901	7357	5977
85°	3818	5649	5039



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	462.5	3.7
10°-20°	1305.8	10.4
20°-30°	1936.9	15.5
30°-40°	2266.3	18.1
40°-50°	2256.2	18.1
50°-60°	1948.4	15.6
60°-70°	1402.5	11.2
70°-80°	735.4	5.9
80°-90°	182.3	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°	3705.1	29.6
0°-40°	5971.5	47.8
0°-60°	10176.1	81.4
0°-90°	12496.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12496.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4912	4912	4912	4912	4912	
5°	4924	4870	4886	4872	4864	466
15°	4686	4627	4635	4626	4617	1321
25°	4284	4212	4206	4180	4193	1970
35°	3683	3632	3631	3596	3609	2302
45°	2960	2934	2921	2912	2908	2284
55°	2194	2190	2194	2164	2159	1958
65°	1389	1431	1458	1401	1354	1377
75°	640	700	736	687	623	686
85°	108	142	160	151	143	146
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4911.6	4911.6	4911.6	4911.6	4911.6
2.5°	4939.3	4898.6	4911.6	4900.6	4876.9
5°	4924.5	4869.5	4885.6	4872.4	4864.0
7.5°	4874.3	4823.6	4835.4	4821.4	4816.4
10°	4829.3	4778.6	4790.4	4772.9	4764.4
12.5°	4777.4	4723.3	4735.0	4717.6	4712.5
15°	4686.5	4627.3	4634.6	4625.8	4617.3
17.5°	4580.9	4520.9	4522.1	4508.2	4506.5
20°	4504.8	4441.3	4435.5	4418.4	4426.9
22.5°	4421.7	4354.8	4349.0	4325.0	4336.9
25°	4284.1	4212.2	4206.2	4180.5	4193.2
27.5°	4124.8	4053.8	4053.9	4017.8	4031.4
30°	4007.1	3939.4	3946.6	3903.7	3920.6
32.5°	3882.5	3821.6	3825.4	3782.5	3799.4
35°	3682.6	3631.8	3630.7	3596.3	3609.0
37.5°	3478.3	3433.5	3426.4	3406.6	3410.0
40°	3336.4	3298.3	3284.5	3271.5	3271.5
42.5°	3187.5	3152.8	3139.1	3129.5	3126.1
45°	2959.9	2934.5	2921.0	2912.2	2908.0
47.5°	2734.9	2711.2	2699.4	2693.3	2689.0
50°	2579.1	2562.2	2557.5	2544.4	2540.2
52.5°	2423.3	2413.2	2408.6	2392.1	2387.8
55°	2194.0	2189.7	2194.0	2163.6	2159.4
57.5°	1955.1	1961.9	1975.9	1935.0	1924.8
60°	1795.9	1812.8	1830.5	1782.5	1765.6
62.5°	1633.1	1660.2	1685.1	1630.0	1606.3
65°	1389.1	1431.4	1458.3	1401.0	1354.5
67.5°	1153.7	1206.1	1238.5	1176.7	1124.2
70°	991.0	1050.2	1086.2	1024.2	965.0
72.5°	849.0	915.0	944.2	885.8	826.5
75°	640.4	699.7	735.7	686.6	623.1
77.5°	454.4	510.2	540.1	497.3	444.9
80°	333.2	392.4	415.4	379.8	337.5
82.5°	236.3	285.4	301.2	279.8	251.0
85°	108.2	142.0	160.1	151.3	142.8
87.5°	27.7	51.4	65.8	65.9	69.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)