

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: P564889

Luminaire Tested: **SQ4-PW1-0U-125D-840-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564889
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-840-1D-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, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

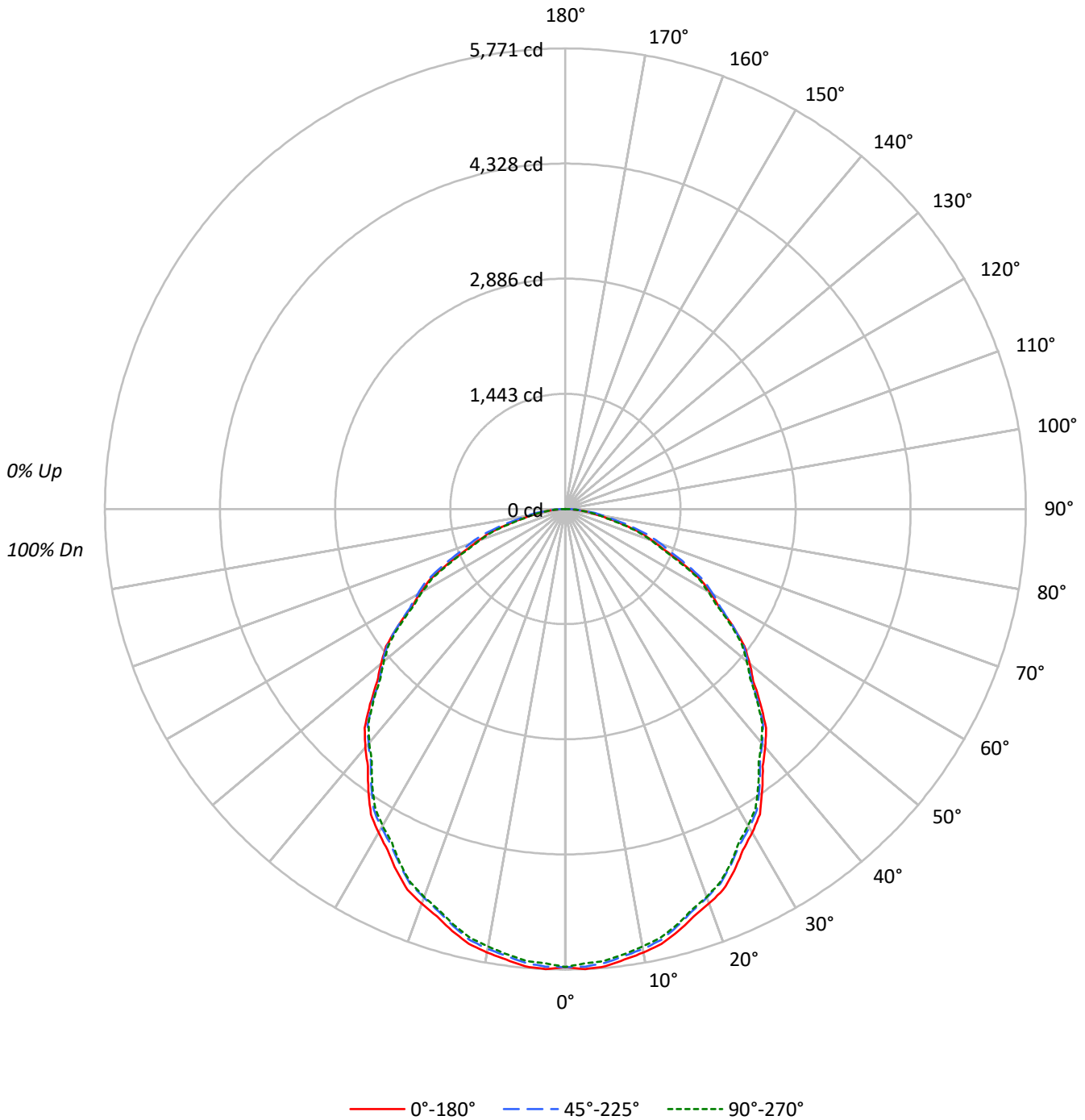
Lumens per Lamp: N/A
Luminaire Lumens: 14600.7 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Direct

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°	17649	17649	17649
5°	17763	17622	17545
10°	17621	17479	17384
15°	17434	17241	17177
20°	17226	16961	16928
25°	16985	16677	16625
30°	16627	16375	16267
35°	16154	15926	15831
40°	15650	15407	15346
45°	15042	14844	14778
50°	14418	14297	14200
55°	13744	13744	13528
60°	12906	13155	12688
65°	11811	12399	11517
70°	10411	11412	10138
75°	8892	10213	8652
80°	6895	8597	6985
85°	4460	6602	5889



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	540.4	3.7
10°-20°	1525.7	10.4
20°-30°	2263.1	15.5
30°-40°	2648.0	18.1
40°-50°	2636.2	18.1
50°-60°	2276.4	15.6
60°-70°	1638.6	11.2
70°-80°	859.3	5.9
80°-90°	213.1	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°	4329.1	29.6
0°-40°	6977.1	47.8
0°-60°	11889.8	81.4
0°-90°	14600.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14600.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5739	5739	5739	5739	5739	
5°	5754	5690	5708	5693	5683	545
15°	5476	5407	5415	5405	5395	1543
25°	5006	4922	4914	4884	4899	2302
35°	4303	4243	4242	4202	4217	2690
45°	3458	3429	3413	3403	3398	2668
55°	2563	2558	2563	2528	2523	2287
65°	1623	1672	1704	1637	1583	1608
75°	748	818	860	802	728	802
85°	126	166	187	177	167	171
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5738.7	5738.7	5738.7	5738.7	5738.7
2.5°	5771.0	5723.6	5738.7	5725.9	5698.2
5°	5753.9	5689.6	5708.3	5693.0	5683.1
7.5°	5695.2	5635.9	5649.7	5633.4	5627.4
10°	5642.6	5583.3	5597.1	5576.7	5566.8
12.5°	5581.9	5518.7	5532.4	5512.0	5506.1
15°	5475.8	5406.6	5415.1	5404.8	5394.9
17.5°	5352.4	5282.2	5283.6	5267.4	5265.4
20°	5263.4	5189.3	5182.5	5162.5	5172.4
22.5°	5166.3	5088.2	5081.4	5053.4	5067.2
25°	5005.5	4921.5	4914.5	4884.5	4899.4
27.5°	4819.5	4736.4	4736.6	4694.5	4710.3
30°	4682.0	4602.9	4611.2	4561.1	4580.8
32.5°	4536.3	4465.2	4469.6	4419.5	4439.3
35°	4302.7	4243.4	4242.1	4202.0	4216.8
37.5°	4064.1	4011.7	4003.4	3980.3	3984.2
40°	3898.3	3853.8	3837.6	3822.4	3822.4
42.5°	3724.3	3683.8	3667.7	3656.5	3652.5
45°	3458.4	3428.7	3412.9	3402.6	3397.7
47.5°	3195.5	3167.8	3154.0	3146.8	3141.9
50°	3013.4	2993.7	2988.2	2972.9	2967.9
52.5°	2831.4	2819.6	2814.2	2794.9	2790.0
55°	2563.4	2558.5	2563.4	2527.9	2523.0
57.5°	2284.4	2292.3	2308.6	2260.8	2249.0
60°	2098.3	2118.1	2138.7	2082.7	2062.9
62.5°	1908.2	1939.8	1968.8	1904.5	1876.8
65°	1623.0	1672.4	1703.9	1636.9	1582.6
67.5°	1348.0	1409.3	1447.1	1374.9	1313.6
70°	1157.8	1227.1	1269.1	1196.7	1127.5
72.5°	992.0	1069.1	1103.2	1034.9	965.7
75°	748.3	817.5	859.5	802.2	728.1
77.5°	530.9	596.1	631.0	581.1	519.8
80°	389.3	458.5	485.4	443.8	394.4
82.5°	276.1	333.4	351.9	326.9	293.3
85°	126.4	166.0	187.1	176.7	166.9
87.5°	32.4	60.0	76.9	76.9	80.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)