

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: P564881

Luminaire Tested: **SQ4-PW1-0U-125D-830-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564881  
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-830-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

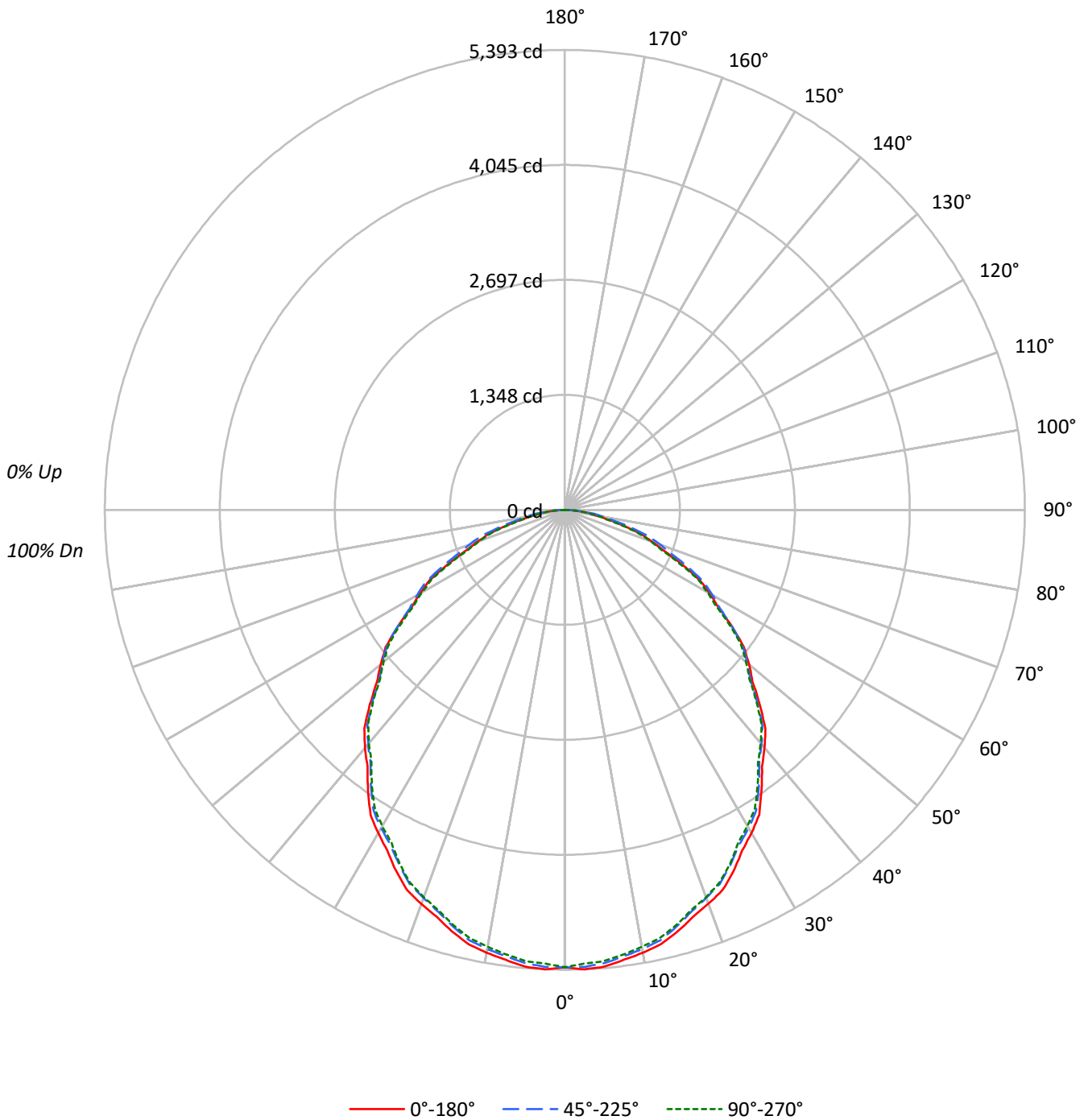
Lumens per Lamp: N/A  
Luminaire Lumens: 13644.2 lumens  
Efficiency: N/A  
Efficacy: 96.9 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: Direct

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°	16492	16492	16492
5°	16599	16468	16395
10°	16467	16334	16245
15°	16292	16111	16051
20°	16097	15850	15819
25°	15873	15584	15536
30°	15537	15302	15201
35°	15096	14883	14794
40°	14625	14397	14340
45°	14056	13871	13809
50°	13473	13360	13270
55°	12844	12844	12642
60°	12060	12293	11858
65°	11037	11587	10762
70°	9729	10663	9474
75°	8309	9544	8085
80°	6443	8033	6526
85°	4167	6168	5501



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	505.0	3.7
10°-20°	1425.7	10.4
20°-30°	2114.8	15.5
30°-40°	2474.5	18.1
40°-50°	2463.5	18.1
50°-60°	2127.3	15.6
60°-70°	1531.3	11.2
70°-80°	803.0	5.9
80°-90°	199.1	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°	4045.5	29.6
0°-40°	6520.0	47.8
0°-60°	11110.8	81.4
0°-90°	13644.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13644.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5363	5363	5363	5363	5363	
5°	5377	5317	5334	5320	5311	509
15°	5117	5052	5060	5051	5041	1442
25°	4678	4599	4593	4564	4578	2151
35°	4021	3965	3964	3927	3940	2514
45°	3232	3204	3189	3180	3175	2494
55°	2396	2391	2396	2362	2358	2137
65°	1517	1563	1592	1530	1479	1503
75°	699	764	803	750	680	750
85°	118	155	175	165	156	160
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5362.7	5362.7	5362.7	5362.7	5362.7
2.5°	5393.0	5348.6	5362.7	5350.8	5324.9
5°	5376.9	5316.9	5334.4	5320.0	5310.8
7.5°	5322.1	5266.7	5279.6	5264.3	5258.8
10°	5273.0	5217.5	5230.4	5211.3	5202.1
12.5°	5216.3	5157.1	5170.0	5150.9	5145.4
15°	5117.0	5052.4	5060.3	5050.7	5041.4
17.5°	5001.8	4936.2	4937.5	4922.3	4920.5
20°	4918.6	4849.3	4843.0	4824.3	4833.6
22.5°	4827.9	4754.9	4748.5	4722.3	4735.3
25°	4677.6	4599.1	4592.6	4564.5	4578.4
27.5°	4503.8	4426.1	4426.3	4386.9	4401.7
30°	4375.2	4301.3	4309.1	4262.3	4280.7
32.5°	4239.2	4172.6	4176.8	4130.0	4148.4
35°	4020.9	3965.4	3964.2	3926.7	3940.5
37.5°	3797.9	3748.9	3741.2	3719.5	3723.2
40°	3642.9	3601.3	3586.2	3572.0	3572.0
42.5°	3480.3	3442.5	3427.4	3416.9	3413.3
45°	3231.8	3204.1	3189.3	3179.7	3175.1
47.5°	2986.1	2960.3	2947.4	2940.7	2936.0
50°	2816.0	2797.5	2792.4	2778.1	2773.5
52.5°	2645.9	2634.8	2629.9	2611.8	2607.2
55°	2395.5	2390.9	2395.5	2362.3	2357.7
57.5°	2134.7	2142.1	2157.4	2112.7	2101.6
60°	1960.8	1979.3	1998.6	1946.2	1927.8
62.5°	1783.2	1812.7	1839.9	1779.7	1753.9
65°	1516.7	1562.9	1592.3	1529.7	1478.9
67.5°	1259.7	1316.9	1352.3	1284.8	1227.5
70°	1082.0	1146.7	1185.9	1118.3	1053.6
72.5°	927.0	999.1	1031.0	967.1	902.5
75°	699.3	764.0	803.2	749.7	680.4
77.5°	496.1	557.1	589.7	543.0	485.7
80°	363.8	428.5	453.6	414.7	368.5
82.5°	258.0	311.6	328.9	305.5	274.0
85°	118.1	155.1	174.8	165.2	155.9
87.5°	30.2	56.1	71.8	71.9	75.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)