

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: P520155

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

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P520155  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/29/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-F-0U-125D-840-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE  
DOWNLIGHT 1250 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

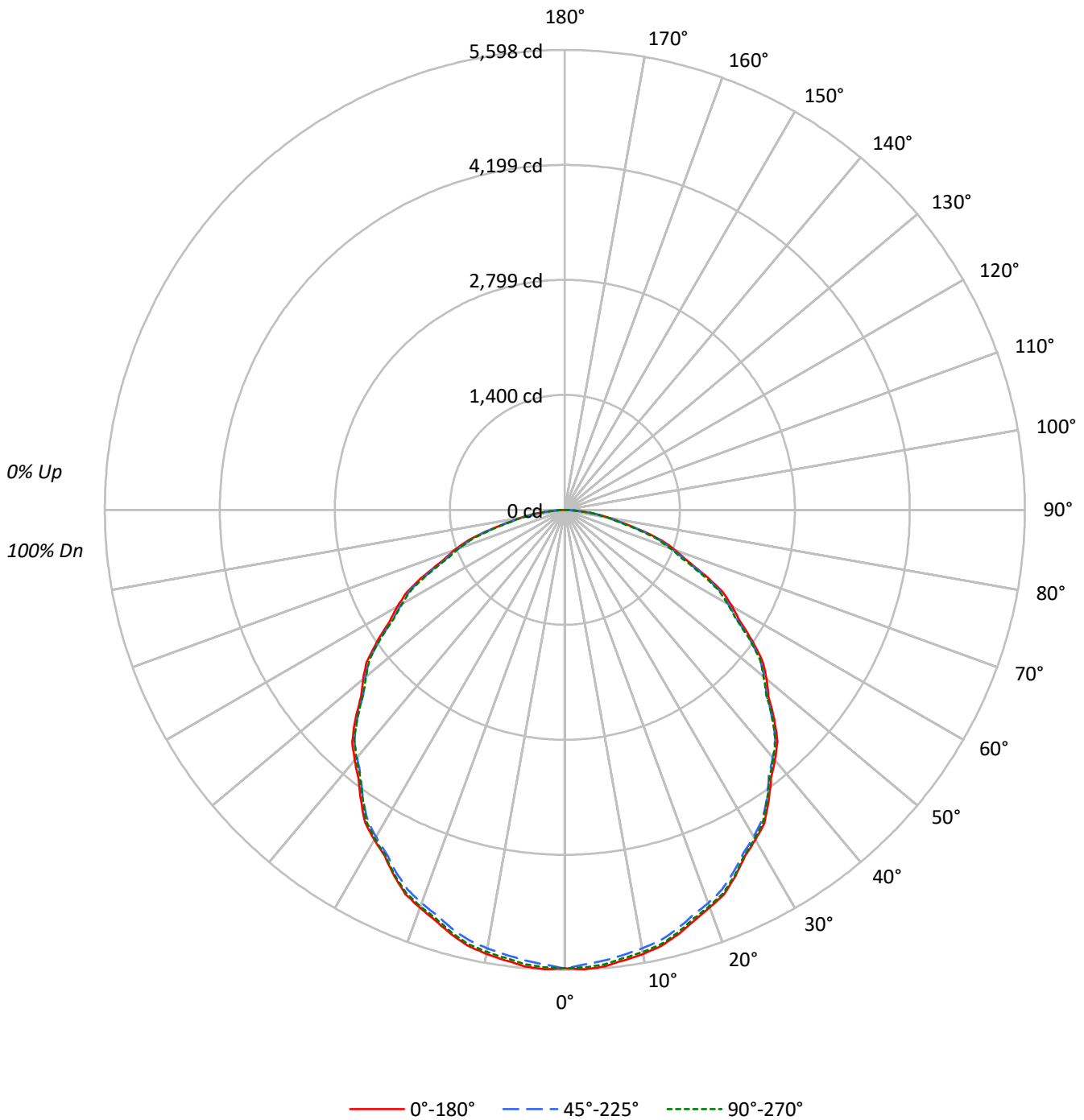
Lumens per Lamp: N/A  
Luminaire Lumens: 15224.7 lumens  
Efficiency: N/A  
Efficacy: 111.9 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: Direct

Input Watts (W): 136.1  
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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	62	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25

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

	0°	45°	90°
0°	17161	17161	17161
5°	17218	16999	17142
10°	17138	16928	17062
15°	17024	16819	16955
20°	16866	16675	16806
25°	16674	16497	16633
30°	16469	16326	16413
35°	16235	16096	16108
40°	15967	15794	15843
45°	15668	15494	15521
50°	15326	15149	15105
55°	14936	14721	14688
60°	14451	14130	14055
65°	13700	13409	13230
70°	12758	12427	12261
75°	11349	11095	10765
80°	9247	8976	8921
85°	5526	6288	6288



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	526.5	3.5
10°-20°	1499.5	9.8
20°-30°	2252.9	14.8
30°-40°	2688.1	17.7
40°-50°	2755.4	18.1
50°-60°	2456.0	16.1
60°-70°	1828.3	12.0
70°-80°	990.5	6.5
80°-90°	227.4	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°	4279.0	28.1
0°-40°	6967.1	45.8
0°-60°	12178.5	80.0
0°-90°	15224.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15224.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5580	5580	5580	5580	5580	
5°	5577	5568	5506	5556	5553	529
15°	5347	5335	5282	5328	5325	1507
25°	4914	4905	4862	4890	4902	2263
35°	4324	4321	4287	4287	4290	2704
45°	3602	3593	3562	3557	3569	2776
55°	2786	2776	2746	2724	2739	2488
65°	1883	1871	1843	1830	1818	1864
75°	955	955	934	915	906	1014
85°	157	178	178	181	178	220
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5580.2	5580.2	5580.2	5580.2	5580.2
2.5°	5597.5	5587.8	5538.5	5580.1	5572.9
5°	5577.2	5568.2	5506.5	5555.6	5552.7
7.5°	5530.0	5518.5	5462.4	5508.3	5502.9
10°	5488.1	5479.2	5420.6	5466.6	5463.6
12.5°	5436.5	5427.5	5369.0	5415.0	5414.4
15°	5346.9	5334.9	5282.4	5328.4	5325.3
17.5°	5239.4	5225.6	5173.7	5210.0	5216.1
20°	5153.4	5144.4	5095.1	5128.9	5135.0
22.5°	5065.0	5053.5	5001.7	5040.5	5046.5
25°	4913.8	4904.8	4861.6	4889.5	4901.6
27.5°	4748.0	4748.0	4708.1	4727.9	4735.1
30°	4637.5	4637.5	4597.5	4610.1	4622.0
32.5°	4519.5	4509.8	4472.2	4482.3	4494.3
35°	4324.2	4321.1	4287.3	4287.4	4290.4
37.5°	4122.1	4113.7	4076.7	4079.4	4093.8
40°	3977.1	3971.2	3934.2	3934.4	3946.4
42.5°	3829.7	3823.7	3791.7	3786.8	3791.7
45°	3602.4	3593.4	3562.5	3556.6	3568.7
47.5°	3360.4	3362.9	3326.1	3317.6	3324.2
50°	3203.2	3203.2	3166.3	3148.1	3157.1
52.5°	3038.6	3033.8	2996.9	2976.4	2997.5
55°	2785.6	2776.5	2745.6	2724.4	2739.4
57.5°	2526.3	2512.5	2481.5	2458.3	2466.7
60°	2349.4	2328.5	2297.2	2278.9	2285.0
62.5°	2165.2	2153.7	2120.3	2092.4	2105.6
65°	1882.6	1870.6	1842.7	1830.1	1818.1
67.5°	1605.6	1597.8	1566.3	1553.2	1545.4
70°	1418.8	1403.8	1382.0	1366.6	1363.6
72.5°	1237.1	1219.7	1197.8	1184.7	1176.9
75°	955.1	955.1	933.7	915.0	906.0
77.5°	686.7	689.1	671.4	665.1	660.9
80°	522.1	522.1	506.8	500.7	503.7
82.5°	364.9	372.1	366.7	358.0	353.8
85°	156.6	177.7	178.2	181.1	178.2
87.5°	27.1	43.9	46.7	41.7	36.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)