

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: P520100

Luminaire Tested: **SQ4-F-0U-075D-830-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P520100  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/29/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-F-0U-075D-830-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE  
DOWNLIGHT 750 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

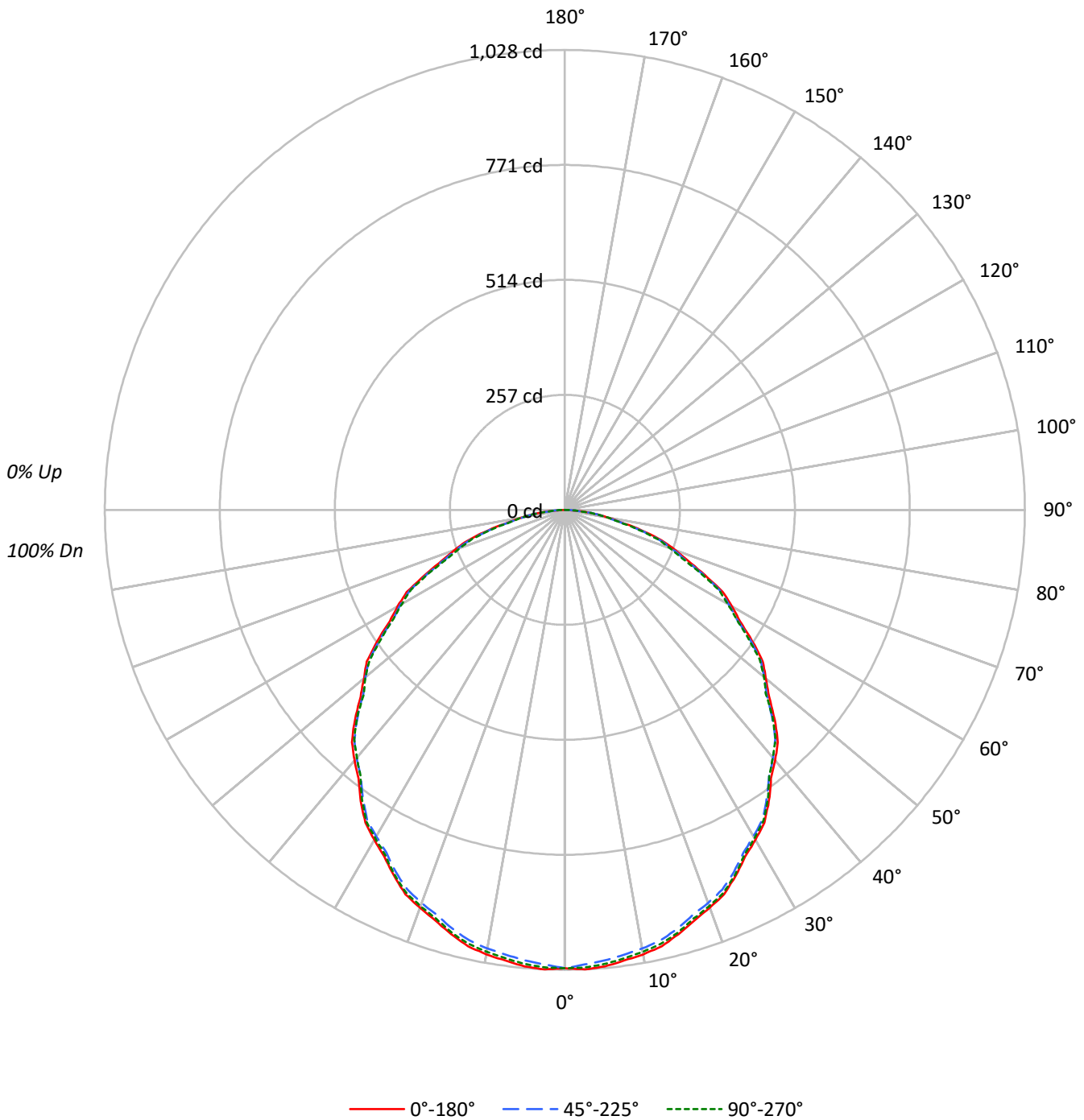
Lumens per Lamp: N/A  
Luminaire Lumens: 2796.9 lumens  
Efficiency: N/A  
Efficacy: 116.5 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 24  
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	61	59
4	83	71	62	55	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	46	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°	9452	9452	9452
5°	9488	9368	9437
10°	9451	9329	9399
15°	9378	9262	9342
20°	9293	9184	9257
25°	9192	9096	9162
30°	9075	8976	9025
35°	8955	8862	8903
40°	8804	8715	8703
45°	8653	8544	8569
50°	8413	8347	8347
55°	8216	8112	8038
60°	7953	7815	7746
65°	7523	7381	7281
70°	7068	6892	6717
75°	6356	6124	5992
80°	5085	4984	4936
85°	3049	3440	3546



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.7	3.5
10°-20°	275.3	9.8
20°-30°	413.6	14.8
30°-40°	493.5	17.6
40°-50°	506.1	18.1
50°-60°	451.0	16.1
60°-70°	336.3	12.0
70°-80°	182.4	6.5
80°-90°	41.9	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°	785.6	28.1
0°-40°	1279.2	45.7
0°-60°	2236.3	80.0
0°-90°	2796.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2796.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1024	1024	1024	1024	1024	
5°	1024	1023	1012	1020	1019	97
15°	982	980	970	977	978	277
25°	903	902	894	898	900	416
35°	795	793	787	787	790	497
45°	663	660	655	655	657	510
55°	511	510	504	500	500	456
65°	345	345	338	334	334	343
75°	178	175	172	169	168	187
85°	29	31	32	33	34	41
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1024.5	1024.5	1024.5	1024.5	1024.5
2.5°	1028.2	1026.1	1017.1	1024.5	1023.8
5°	1024.5	1022.7	1011.5	1019.9	1019.0
7.5°	1016.1	1014.2	1003.2	1011.5	1011.3
10°	1008.8	1006.0	995.8	1004.0	1003.2
12.5°	999.1	996.4	986.0	994.4	993.5
15°	981.8	979.9	969.7	977.2	978.1
17.5°	962.1	958.7	949.4	956.7	957.7
20°	946.5	943.8	935.4	941.8	942.8
22.5°	930.1	927.4	919.0	925.5	926.4
25°	902.9	901.9	893.5	898.3	900.0
27.5°	873.3	870.8	864.0	867.5	869.4
30°	851.8	849.9	842.5	845.3	847.1
32.5°	829.5	828.4	821.7	823.0	825.5
35°	795.1	793.3	786.8	786.9	790.5
37.5°	757.0	755.0	749.6	748.7	750.1
40°	731.0	728.3	723.6	722.6	722.6
42.5°	704.3	702.2	696.1	694.5	696.6
45°	663.2	660.5	654.8	654.9	656.7
47.5°	618.8	617.7	611.2	608.2	608.9
50°	586.1	587.9	581.5	577.8	581.5
52.5°	557.9	556.8	551.0	547.3	548.8
55°	510.8	509.9	504.3	499.7	499.7
57.5°	463.7	461.3	455.5	452.1	454.7
60°	431.0	430.0	423.5	417.1	419.8
62.5°	398.2	396.7	390.1	385.9	387.9
65°	344.6	344.6	338.1	334.4	333.5
67.5°	297.6	293.3	289.6	285.1	283.9
70°	262.0	258.3	255.5	251.6	249.0
72.5°	227.0	224.9	220.5	216.8	216.2
75°	178.3	174.7	171.8	169.1	168.1
77.5°	126.8	126.2	123.5	122.0	122.6
80°	95.7	95.7	93.8	93.8	92.9
82.5°	67.4	68.2	67.8	66.3	66.1
85°	28.8	30.6	32.5	32.6	33.5
87.5°	5.2	8.9	8.2	8.2	8.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)