

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P521521

Luminaire Tested: **SQ4-F-0U-075D-93050-1D-UNV-STD-W-4 (5000K)**

Issue Date: 5/5/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P521521  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-33)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/5/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-F-0U-075D-93050-1D-UNV-STD-W-4 (5000K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE  
DOWNLIGHT 750 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

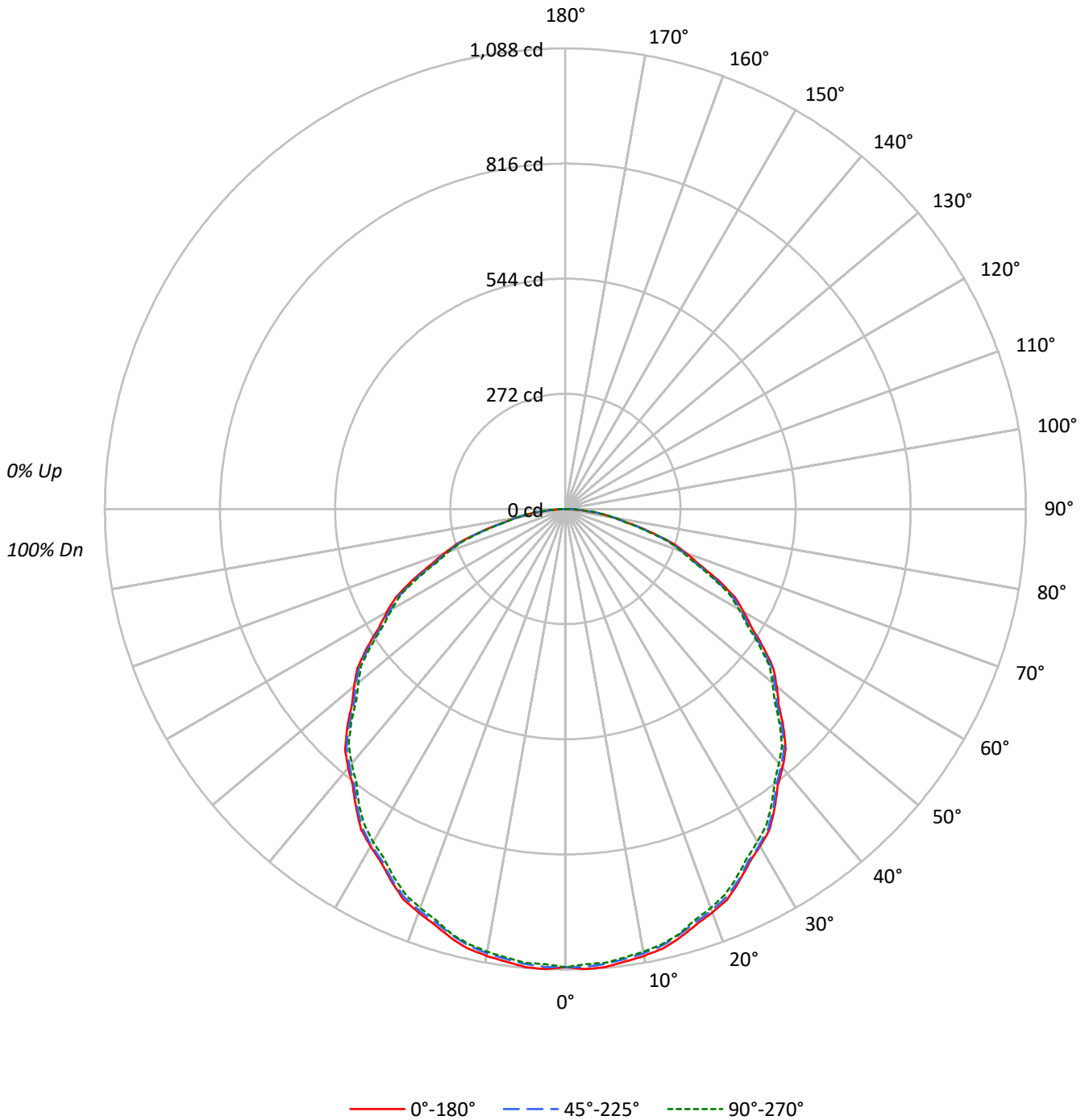
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3085.7 lumens  
Efficiency: N/A  
Efficacy: 98.0 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.25 / 1.38  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 31.5  
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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84				84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70				70
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58				58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50				50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43				43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38				38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33				33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	30				30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27				27
10	53	39	32	26	51	39	31	26	38	31	26	37	31	26	36	30	26	24				24

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

	0°	45°	90°
0°	9984	9984	9984
5°	10060	9993	9965
10°	10042	9984	9946
15°	10013	9944	9925
20°	9961	9911	9850
25°	9889	9847	9764
30°	9803	9770	9672
35°	9707	9660	9579
40°	9615	9552	9453
45°	9507	9426	9333
50°	9354	9281	9163
55°	9198	9082	8966
60°	8981	8829	8735
65°	8702	8479	8366
70°	8182	7961	7877
75°	7304	7158	7051
80°	6041	6100	6041
85°	4340	4880	5102



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.4	3.3
10°-20°	293.3	9.5
20°-30°	443.6	14.4
30°-40°	534.1	17.3
40°-50°	554.8	18.0
50°-60°	503.4	16.3
60°-70°	383.9	12.4
70°-80°	213.9	6.9
80°-90°	56.2	1.8
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°	839.4	27.2
0°-40°	1373.5	44.5
0°-60°	2431.7	78.8
0°-90°	3085.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3085.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1082	1082	1082	1082	1082	
5°	1086	1076	1079	1077	1076	103
15°	1048	1036	1041	1039	1039	296
25°	971	961	967	958	959	447
35°	862	856	858	848	850	539
45°	729	722	722	713	715	561
55°	572	569	565	557	557	510
65°	399	395	388	382	383	393
75°	205	204	201	199	198	218
85°	41	46	46	48	48	52
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1082.1	1082.1	1082.1	1082.1	1082.1
2.5°	1087.8	1079.8	1082.9	1080.4	1076.4
5°	1086.2	1076.2	1079.0	1077.0	1076.0
7.5°	1078.4	1068.4	1072.3	1069.2	1069.0
10°	1071.9	1061.8	1065.7	1062.6	1061.6
12.5°	1063.7	1052.8	1056.7	1053.6	1053.4
15°	1048.3	1036.3	1041.1	1039.1	1039.1
17.5°	1029.2	1017.4	1023.3	1019.6	1018.0
20°	1014.5	1003.5	1009.4	1003.2	1003.2
22.5°	998.9	987.9	993.0	986.0	986.0
25°	971.4	961.4	967.3	958.1	959.1
27.5°	941.5	932.5	937.6	928.8	929.2
30°	920.2	911.2	917.1	905.9	907.9
32.5°	898.1	889.9	893.4	883.7	884.1
35°	861.8	855.8	857.7	848.5	850.5
37.5°	824.5	817.5	819.4	810.0	812.0
40°	798.3	791.2	793.1	782.9	784.9
42.5°	770.4	764.2	765.3	755.1	757.9
45°	728.6	721.6	722.4	713.3	715.3
47.5°	683.7	678.1	676.9	668.6	670.4
50°	651.7	647.7	646.6	637.4	638.4
52.5°	619.8	616.5	613.8	605.5	608.1
55°	571.8	568.8	564.6	557.4	557.4
57.5°	522.0	519.0	513.8	506.7	508.7
60°	486.7	483.7	478.5	471.4	473.4
62.5°	451.5	448.5	442.5	436.1	437.4
65°	398.6	394.6	388.4	382.2	383.2
67.5°	341.8	338.0	332.8	326.9	328.1
70°	303.3	300.3	295.1	290.0	292.0
72.5°	263.1	260.1	255.8	253.1	252.7
75°	204.9	203.9	200.8	198.8	197.8
77.5°	149.8	151.2	147.6	146.7	146.5
80°	113.7	116.8	114.8	114.7	113.7
82.5°	81.8	86.4	85.3	85.3	85.1
85°	41.0	46.0	46.1	48.2	48.2
87.5°	11.5	16.3	18.9	19.7	19.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)