

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: P564850

Luminaire Tested: **SQ4-PW1-0U-075D-935-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564850  
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-075D-935-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

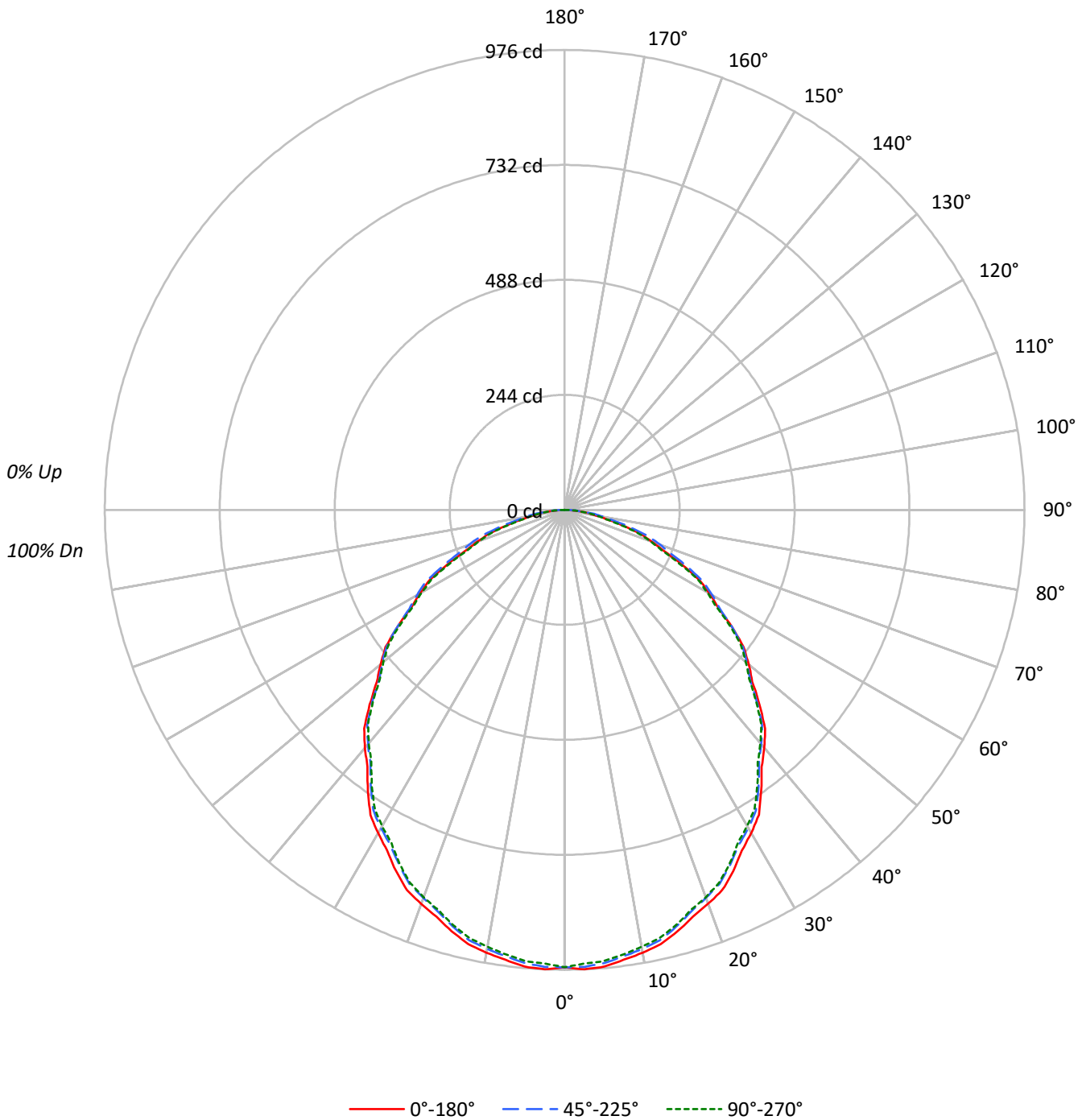
Lumens per Lamp: N/A  
Luminaire Lumens: 2469.2 lumens  
Efficiency: N/A  
Efficacy: 102.9 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Direct

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	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°	8954	8954	8954
5°	9011	8940	8901
10°	8939	8867	8820
15°	8845	8747	8714
20°	8739	8605	8588
25°	8617	8461	8434
30°	8435	8308	8253
35°	8195	8080	8032
40°	7939	7817	7785
45°	7632	7531	7497
50°	7315	7253	7204
55°	6973	6973	6864
60°	6547	6674	6438
65°	5993	6292	5842
70°	5282	5789	5144
75°	4509	5183	4388
80°	3496	4362	3544
85°	2265	3345	2985



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	91.4	3.7
10°-20°	258.0	10.4
20°-30°	382.7	15.5
30°-40°	447.8	18.1
40°-50°	445.8	18.1
50°-60°	385.0	15.6
60°-70°	277.1	11.2
70°-80°	145.3	5.9
80°-90°	36.0	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°	732.1	29.6
0°-40°	1179.9	47.8
0°-60°	2010.7	81.4
0°-90°	2469.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2469.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	970	970	970	970	970	
5°	973	962	965	963	961	92
15°	926	914	916	914	912	261
25°	846	832	831	826	828	389
35°	728	718	717	711	713	455
45°	585	580	577	575	575	451
55°	434	433	434	428	427	387
65°	274	283	288	277	268	272
75°	126	138	145	136	123	136
85°	21	28	32	30	28	29
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	970.5	970.5	970.5	970.5	970.5
2.5°	975.9	967.9	970.5	968.3	963.6
5°	973.0	962.2	965.3	962.7	961.1
7.5°	963.1	953.1	955.4	952.7	951.7
10°	954.2	944.2	946.5	943.1	941.4
12.5°	944.0	933.3	935.6	932.1	931.1
15°	926.0	914.3	915.8	914.0	912.3
17.5°	905.2	893.3	893.5	890.8	890.4
20°	890.1	877.6	876.4	873.0	874.7
22.5°	873.7	860.5	859.3	854.6	856.9
25°	846.5	832.3	831.1	826.0	828.5
27.5°	815.0	801.0	801.0	793.9	796.6
30°	791.8	778.4	779.8	771.3	774.7
32.5°	767.1	755.1	755.9	747.4	750.7
35°	727.6	717.6	717.4	710.6	713.1
37.5°	687.3	678.4	677.0	673.1	673.8
40°	659.2	651.7	649.0	646.4	646.4
42.5°	629.8	623.0	620.2	618.4	617.7
45°	584.9	579.8	577.2	575.4	574.6
47.5°	540.4	535.7	533.4	532.2	531.3
50°	509.6	506.3	505.3	502.7	501.9
52.5°	478.8	476.8	475.9	472.6	471.8
55°	433.5	432.7	433.5	427.5	426.7
57.5°	386.3	387.6	390.4	382.3	380.3
60°	354.8	358.2	361.7	352.2	348.9
62.5°	322.7	328.0	333.0	322.1	317.4
65°	274.5	282.8	288.2	276.8	267.6
67.5°	228.0	238.3	244.7	232.5	222.1
70°	195.8	207.5	214.6	202.4	190.7
72.5°	167.8	180.8	186.6	175.0	163.3
75°	126.5	138.3	145.4	135.7	123.1
77.5°	89.8	100.8	106.7	98.3	87.9
80°	65.8	77.5	82.1	75.1	66.7
82.5°	46.7	56.4	59.5	55.3	49.6
85°	21.4	28.1	31.6	29.9	28.2
87.5°	5.5	10.2	13.0	13.0	13.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)