

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: P562312

Luminaire Tested: **SQ4-PW1-0U-075D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562312  
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-92765-1D-UNV-STD-W-4 (3500K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS  
DOWNLIGHT 750 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2975.1 lumens  
Efficiency: N/A  
Efficacy: 93.3 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

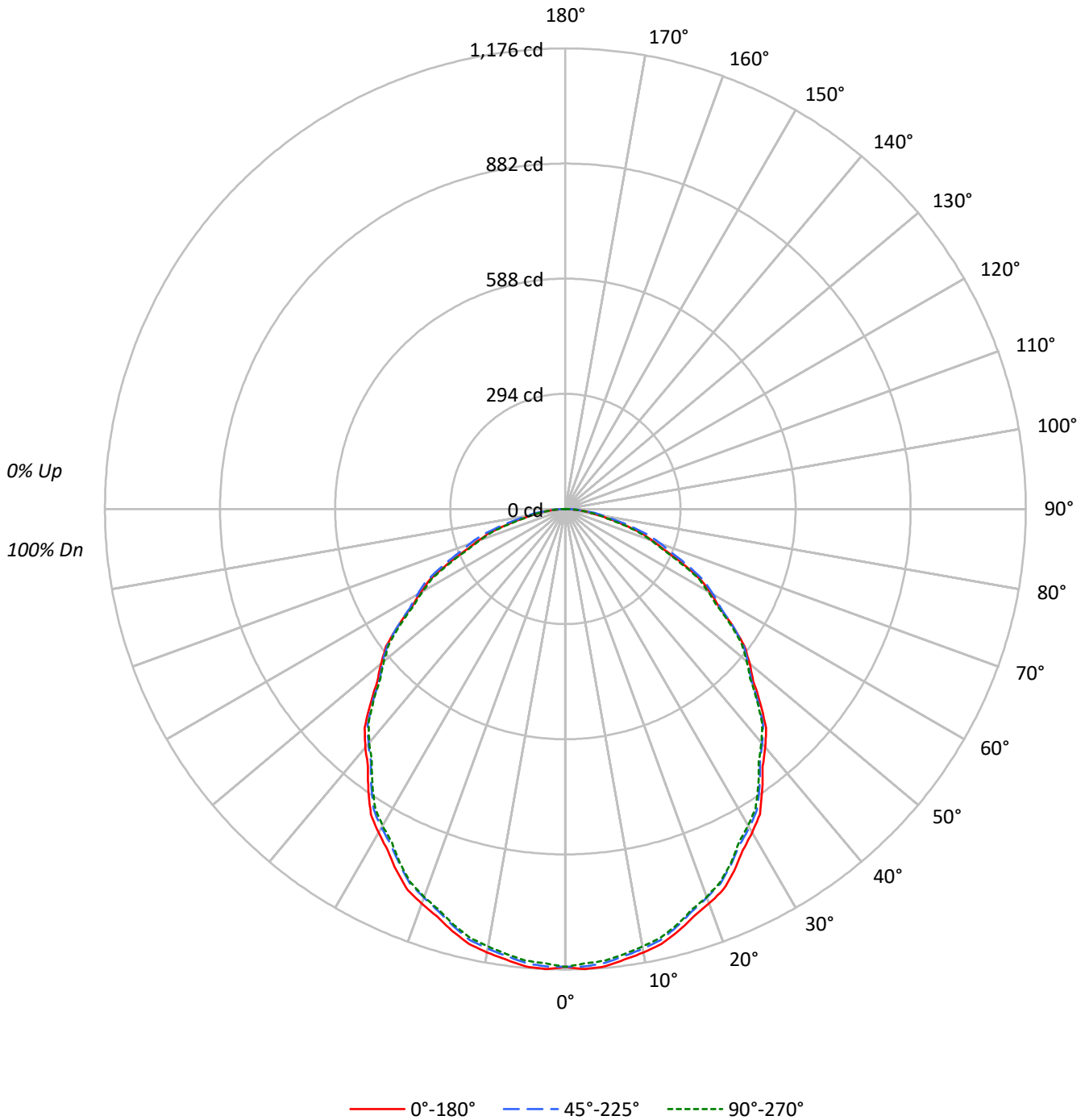
Input Watts (W): 31.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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°	10788	10788	10788
5°	10858	10773	10725
10°	10772	10685	10627
15°	10658	10539	10500
20°	10530	10368	10349
25°	10384	10194	10163
30°	10163	10010	9944
35°	9875	9736	9677
40°	9567	9418	9381
45°	9195	9073	9033
50°	8813	8740	8681
55°	8401	8401	8270
60°	7890	8042	7756
65°	7220	7580	7041
70°	6364	6976	6196
75°	5436	6242	5290
80°	4213	5255	4272
85°	2731	4033	3599



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.1	3.7
10°-20°	310.9	10.4
20°-30°	461.1	15.5
30°-40°	539.6	18.1
40°-50°	537.2	18.1
50°-60°	463.9	15.6
60°-70°	333.9	11.2
70°-80°	175.1	5.9
80°-90°	43.4	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°	882.1	29.6
0°-40°	1421.7	47.8
0°-60°	2422.7	81.4
0°-90°	2975.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2975.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1169	1169	1169	1169	1169	
5°	1172	1159	1163	1160	1158	111
15°	1116	1102	1103	1101	1099	314
25°	1020	1003	1001	995	998	469
35°	877	865	864	856	859	548
45°	705	699	695	693	692	544
55°	522	521	522	515	514	466
65°	331	341	347	334	322	328
75°	152	167	175	164	148	163
85°	26	34	38	36	34	35
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1169.3	1169.3	1169.3	1169.3	1169.3
2.5°	1175.9	1166.3	1169.3	1166.7	1161.1
5°	1172.4	1159.3	1163.2	1160.0	1158.0
7.5°	1160.5	1148.4	1151.2	1147.9	1146.7
10°	1149.8	1137.7	1140.5	1136.3	1134.3
12.5°	1137.4	1124.5	1127.3	1123.2	1122.0
15°	1115.8	1101.7	1103.4	1101.3	1099.3
17.5°	1090.6	1076.3	1076.6	1073.3	1072.9
20°	1072.5	1057.4	1056.0	1051.9	1054.0
22.5°	1052.7	1036.8	1035.4	1029.7	1032.5
25°	1020.0	1002.8	1001.4	995.3	998.3
27.5°	982.0	965.1	965.2	956.6	959.8
30°	954.0	937.9	939.6	929.4	933.4
32.5°	924.4	909.8	910.8	900.5	904.6
35°	876.8	864.7	864.4	856.2	859.2
37.5°	828.1	817.4	815.8	811.0	811.8
40°	794.3	785.3	782.0	778.9	778.9
42.5°	758.9	750.6	747.4	745.1	744.3
45°	704.7	698.7	695.4	693.3	692.3
47.5°	651.1	645.5	642.7	641.2	640.2
50°	614.0	610.0	608.9	605.8	604.8
52.5°	576.9	574.5	573.4	569.5	568.5
55°	522.3	521.3	522.3	515.1	514.1
57.5°	465.5	467.1	470.4	460.7	458.3
60°	427.6	431.6	435.8	424.4	420.3
62.5°	388.8	395.3	401.2	388.1	382.4
65°	330.7	340.8	347.2	333.6	322.5
67.5°	274.7	287.2	294.9	280.2	267.7
70°	235.9	250.0	258.6	243.9	229.7
72.5°	202.1	217.9	224.8	210.9	196.8
75°	152.5	166.6	175.1	163.5	148.4
77.5°	108.2	121.5	128.6	118.4	105.9
80°	79.3	93.4	98.9	90.4	80.4
82.5°	56.3	67.9	71.7	66.6	59.8
85°	25.8	33.8	38.1	36.0	34.0
87.5°	6.6	12.2	15.7	15.7	16.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)