

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

Brand: CORELITE

Report Number: P688618

Luminaire Tested: SQ4R-PW1-075D-935-1-UNV-STD-W-4

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P688618  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2203-586-35)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/22/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4R-PW1-075D-935-1-UNV-STD-W-4  
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
750 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2399.4 lumens  
Efficiency: N/A  
Efficacy: 89.5 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.2 / 1.29  
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')  
CIE Type: Direct

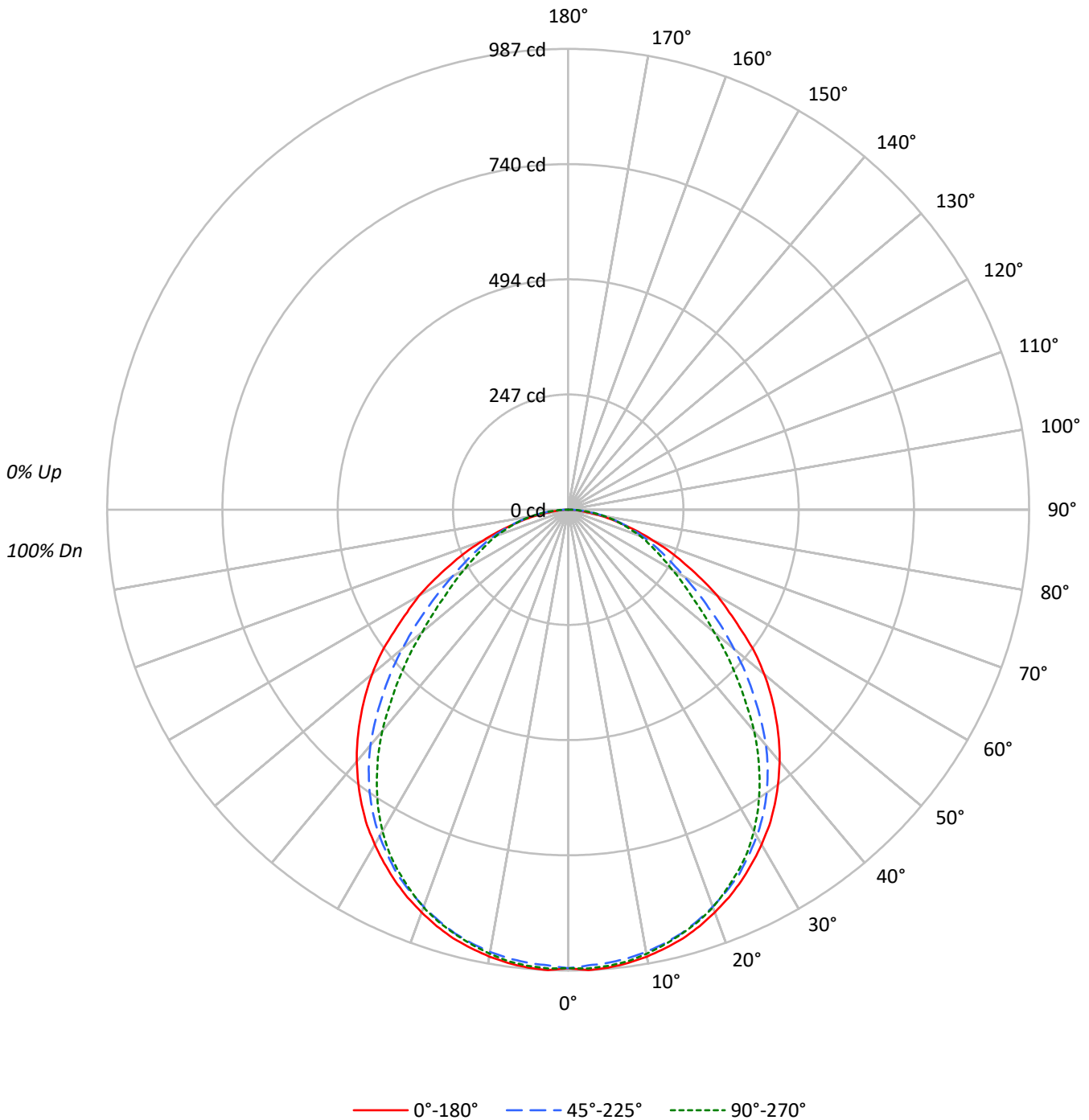
Input Watts (W): 26.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	103	99	96	99	96	93		95	92	90		91	89	87	85
2	100	92	86	81	98	91	85	80	87	82	78		84	80	76		81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66		75	69	65		72	68	64	62
4	85	73	65	58	82	72	64	58	69	63	57		67	61	56		65	60	56	54
5	78	66	57	51	76	65	57	50	63	55	50		61	54	49		59	53	49	47
6	72	59	51	45	70	59	50	44	57	49	44		55	49	44		54	48	43	41
7	67	54	46	40	65	53	45	40	52	45	39		50	44	39		49	43	39	37
8	63	50	41	36	61	49	41	36	48	40	35		46	40	35		45	39	35	33
9	59	46	38	32	57	45	37	32	44	37	32		43	36	32		42	36	32	30
10	55	42	34	29	54	42	34	29	41	34	29		40	33	29		39	33	29	27

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

	0°	45°	90°
0°	9454	9454	9454
5°	9514	9417	9478
10°	9501	9402	9440
15°	9473	9360	9372
20°	9401	9272	9285
25°	9318	9172	9104
30°	9205	8980	8840
35°	9064	8708	8396
40°	8851	8281	7788
45°	8558	7648	6978
50°	8205	6938	6106
55°	7627	6165	5403
60°	7097	5516	4958
65°	6296	5119	4686
70°	5472	4867	4619
75°	4508	4601	4412
80°	3570	4341	4341
85°	2651	3899	4043

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 8558 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.2	3.9
10°-20°	266.1	11.1
20°-30°	398.6	16.6
30°-40°	463.1	19.3
40°-50°	437.0	18.2
50°-60°	340.9	14.2
60°-70°	231.4	9.6
70°-80°	130.3	5.4
80°-90°	38.7	1.6
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°	757.9	31.6
0°-40°	1221.0	50.9
0°-60°	1998.9	83.3
0°-90°	2399.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2399.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	982	982	982	982	982	
5°	984	982	974	982	981	94
15°	950	947	939	944	940	268
25°	877	874	863	861	857	404
35°	771	764	741	724	714	482
45°	629	610	562	526	512	485
55°	454	428	367	332	322	408
65°	276	251	225	211	206	276
75°	121	126	124	119	119	132
85°	24	34	35	35	37	29
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	982.0	982.0	982.0	982.0	982.0
2.5°	987.1	984.5	977.0	984.5	983.3
5°	984.5	982.0	974.4	982.0	980.7
7.5°	979.5	978.2	969.4	977.0	975.7
10°	971.9	970.6	961.8	968.1	965.6
12.5°	961.8	960.5	951.7	956.8	954.2
15°	950.4	946.7	939.1	944.1	940.3
17.5°	935.3	931.5	922.7	926.5	925.2
20°	917.6	913.8	905.0	908.8	906.3
22.5°	898.7	894.9	884.8	886.1	882.3
25°	877.2	873.5	863.4	860.8	857.0
27.5°	853.3	850.7	835.6	833.1	829.3
30°	828.0	824.2	807.8	802.8	795.2
32.5°	801.5	793.9	776.3	766.2	757.3
35°	771.2	763.6	740.9	724.5	714.4
37.5°	738.4	727.0	701.8	679.1	669.0
40°	704.3	691.7	658.9	628.6	619.7
42.5°	667.7	652.6	610.9	579.4	564.2
45°	628.6	609.6	561.7	526.3	512.5
47.5°	589.5	565.5	513.7	475.9	460.7
50°	547.8	518.8	463.2	422.8	407.7
52.5°	504.9	473.3	416.5	374.9	363.5
55°	454.4	427.9	367.3	332.0	321.9
57.5°	409.0	379.9	326.9	296.6	289.0
60°	368.6	333.2	286.5	263.8	257.5
62.5°	321.9	290.3	253.7	236.0	229.7
65°	276.4	251.2	224.7	210.8	205.7
67.5°	237.3	215.8	198.2	186.8	184.3
70°	194.4	183.0	172.9	164.1	164.1
72.5°	157.8	154.0	147.7	142.6	138.8
75°	121.2	126.2	123.7	118.6	118.6
77.5°	92.1	99.7	101.0	98.5	99.7
80°	64.4	75.7	78.3	77.0	78.3
82.5°	40.4	54.3	56.8	56.8	58.1
85°	24.0	34.1	35.3	35.3	36.6
87.5°	10.1	16.4	17.7	17.7	17.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)