

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: P686070

Luminaire Tested: SQ4R-F-075D-930-1-UNV-STD-W-4

Issue Date: 11/18/2022

**Test Information**

Test Method: LM-79-2019  
Report Number: P686070  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2203-586-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/18/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4R-F-075D-930-1-UNV-STD-W-4  
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH FROSTED LENS.  
750 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2422.4 lumens  
Efficiency: N/A  
Efficacy: 90.4 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.23 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')  
CIE Type: Direct

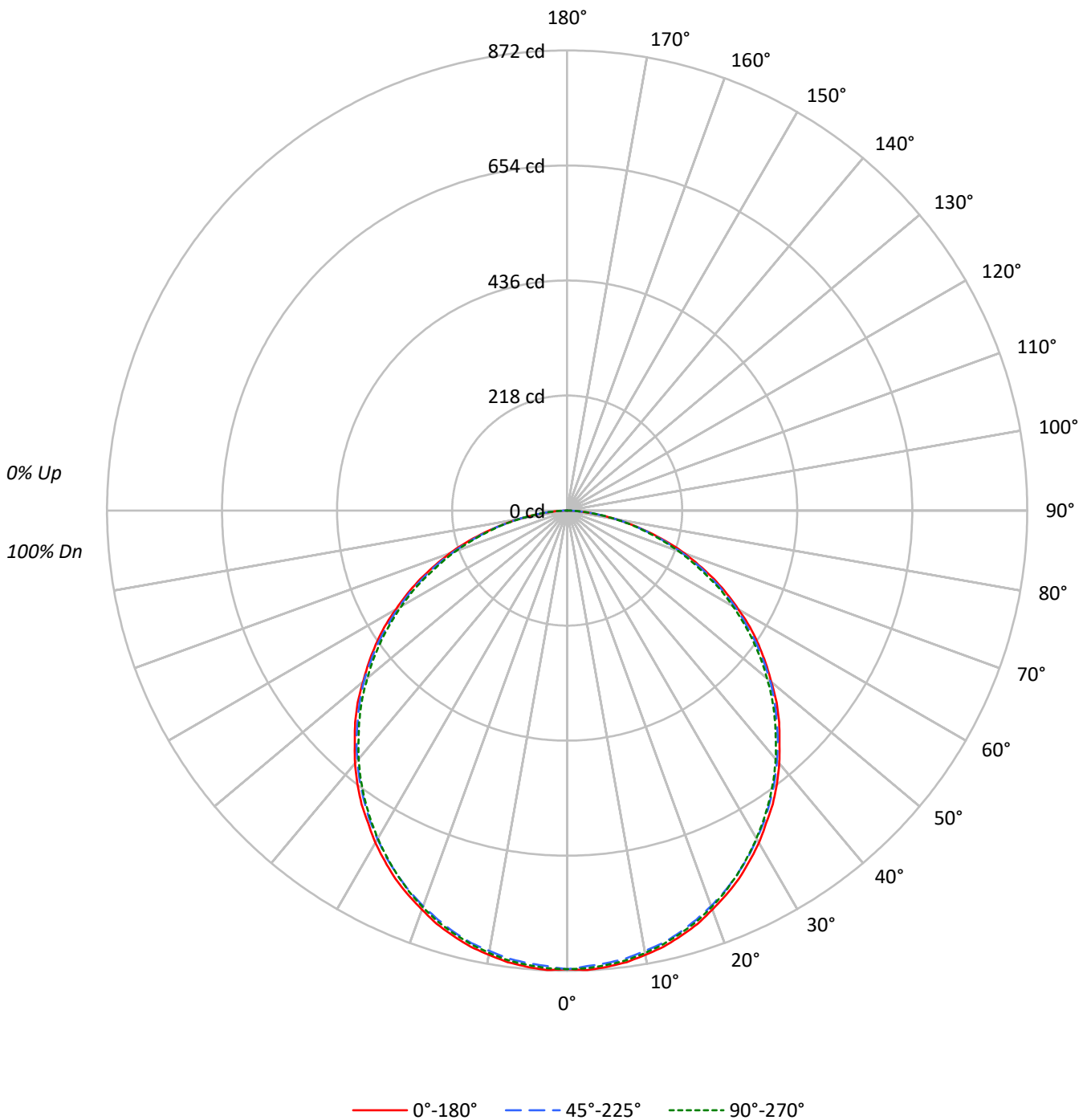
Input Watts (W): 26.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P686070

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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	94	91	88	90	88	86	84				84
2	99	91	84	78	96	89	82	77	85	80	75	82	77	74	79	75	72	70				70
3	90	80	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	59				59
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50				50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43				43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	38				38
7	65	51	43	36	63	51	42	36	49	41	36	48	41	36	46	40	35	33				33
8	60	47	38	32	59	46	38	32	45	37	32	44	37	32	42	36	32	30				30
9	56	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29	27				27
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24				24

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

	0°	45°	90°
0°	8367	8367	8367
5°	8387	8318	8353
10°	8355	8286	8321
15°	8316	8246	8270
20°	8243	8170	8194
25°	8179	8090	8090
30°	8082	7990	7976
35°	7984	7885	7857
40°	7861	7772	7727
45°	7736	7639	7574
50°	7564	7528	7402
55°	7434	7333	7214
60°	7217	7103	6988
65°	6989	6825	6663
70°	6654	6452	6317
75°	6041	5907	5773
80°	5162	5162	5095
85°	3689	3955	3955

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 7736 cd/sqm

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CATALOG NUMBER: SQ4R-F-075D-930-1-UNV-STD-W-4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.2	3.4
10°-20°	234.4	9.7
20°-30°	352.3	14.5
30°-40°	421.1	17.4
40°-50°	433.9	17.9
50°-60°	390.4	16.1
60°-70°	296.8	12.3
70°-80°	168.7	7.0
80°-90°	42.6	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°	668.9	27.6
0°-40°	1090.0	45.0
0°-60°	1914.3	79.0
0°-90°	2422.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2422.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	869	869	869	869	869	
5°	868	867	861	868	864	82
15°	834	833	827	832	830	235
25°	770	768	762	764	762	354
35°	679	677	671	671	668	424
45°	568	568	561	558	556	438
55°	443	442	437	433	430	395
65°	307	306	300	296	292	303
75°	162	161	159	158	155	173
85°	33	35	36	36	36	41
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	869.1	869.1	869.1	869.1	869.1
2.5°	871.5	869.1	864.3	870.3	867.9
5°	867.9	866.7	860.7	867.9	864.3
7.5°	863.1	861.9	855.9	861.9	859.5
10°	854.7	853.5	847.6	853.5	851.2
12.5°	846.4	845.2	839.2	844.0	841.6
15°	834.4	833.3	827.3	832.1	829.7
17.5°	821.3	820.1	813.0	817.7	816.5
20°	804.6	803.4	797.4	801.0	799.8
22.5°	787.9	786.7	780.7	784.3	781.9
25°	770.0	767.6	761.6	764.0	761.6
27.5°	748.5	747.3	741.3	742.5	740.1
30°	727.0	725.8	718.7	719.8	717.5
32.5°	701.9	701.9	696.0	696.0	693.6
35°	679.3	676.9	670.9	670.9	668.5
37.5°	653.0	650.6	645.8	644.6	642.3
40°	625.5	624.3	618.4	617.2	614.8
42.5°	595.7	596.9	590.9	587.3	585.0
45°	568.2	568.2	561.1	557.5	556.3
47.5°	538.4	538.4	532.4	528.8	526.5
50°	505.0	507.4	502.6	496.6	494.2
52.5°	473.9	475.1	469.2	465.6	463.2
55°	442.9	441.7	436.9	433.3	429.8
57.5°	410.7	409.5	402.3	398.7	396.3
60°	374.8	374.8	368.9	365.3	362.9
62.5°	341.4	340.2	335.5	330.7	329.5
65°	306.8	305.6	299.6	296.1	292.5
67.5°	269.8	268.6	265.0	260.2	257.9
70°	236.4	232.8	229.2	225.6	224.4
72.5°	200.6	197.0	193.4	191.0	188.6
75°	162.4	161.2	158.8	157.6	155.2
77.5°	127.7	127.7	125.3	124.2	124.2
80°	93.1	93.1	93.1	91.9	91.9
82.5°	60.9	62.1	62.1	60.9	62.1
85°	33.4	34.6	35.8	35.8	35.8
87.5°	10.7	14.3	13.1	14.3	14.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)