

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: P688509

Luminaire Tested: SQ4R-PH1-075D-930-1-UNV-STD-W-4

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P688509  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2203-586-36)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/22/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4R-PH1-075D-930-1-UNV-STD-W-4  
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE HEX CONTINUOUS LENS.  
750 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2205.7 lumens  
Efficiency: N/A  
Efficacy: 82.3 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.22 / 1.28  
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')  
CIE Type: Direct

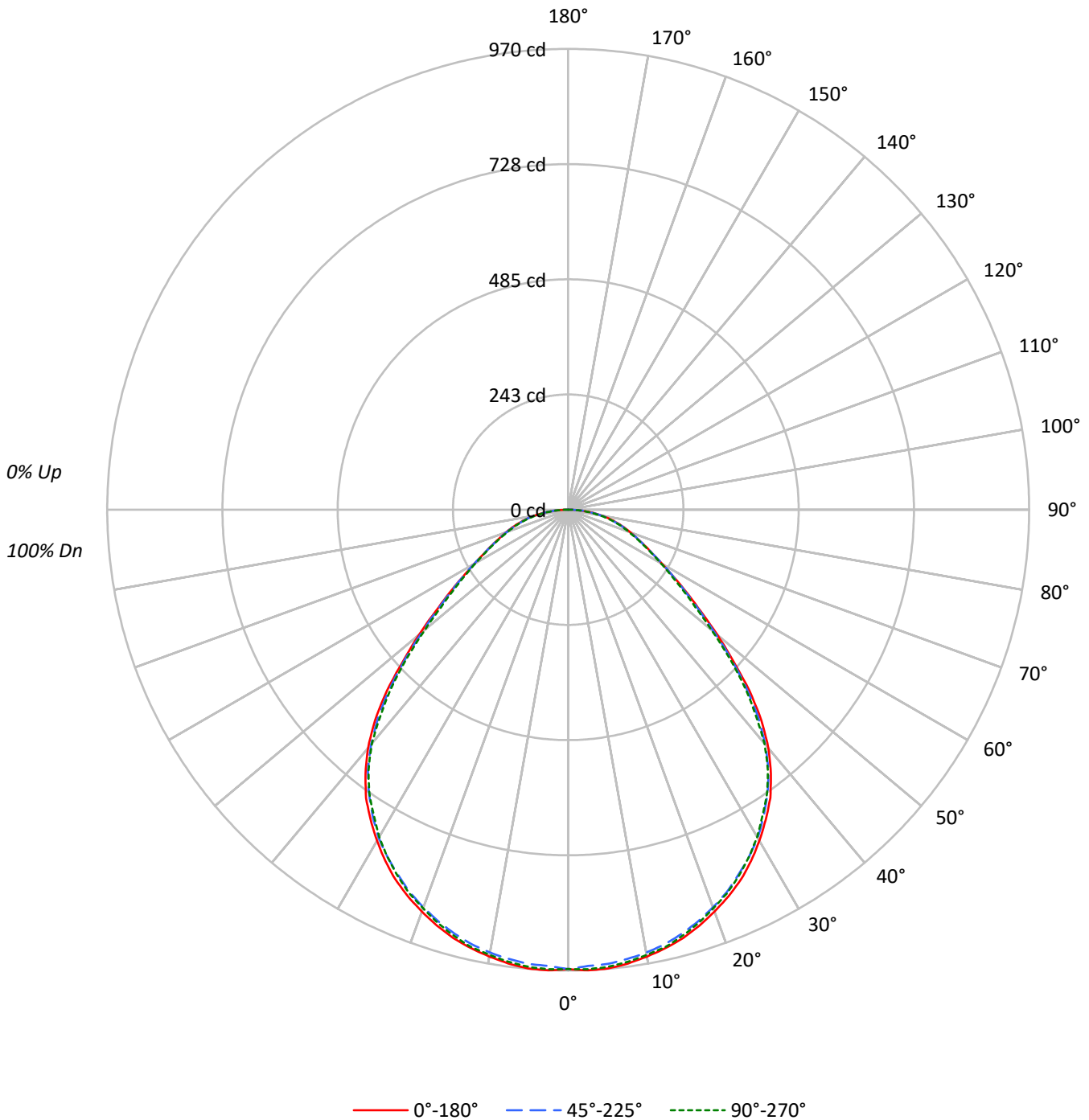
Input Watts (W): 26.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	64
4	86	75	66	60	83	73	66	60	71	64	59	69	63	58	66	62	57	55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	74	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39
8	64	51	43	37	62	50	43	37	49	42	37	48	42	37	47	41	37	35
9	60	47	39	34	58	47	39	34	45	39	34	44	38	34	43	38	33	32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	31	29

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

	0°	45°	90°
0°	9310	9310	9310
5°	9367	9276	9334
10°	9336	9255	9301
15°	9304	9209	9257
20°	9222	9124	9148
25°	9130	9004	9029
30°	8944	8864	8839
35°	8712	8587	8573
40°	8237	8101	8071
45°	7347	7200	7119
50°	6133	6007	5883
55°	5109	5049	4930
60°	4390	4413	4321
65°	4025	3998	3943
70°	3899	3865	3797
75°	3950	3865	3776
80°	3970	3903	3770
85°	3822	3822	3557

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 7347 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	91.7	4.2
10°-20°	262.0	11.9
20°-30°	392.5	17.8
30°-40°	456.7	20.7
40°-50°	406.2	18.4
50°-60°	272.7	12.4
60°-70°	176.3	8.0
70°-80°	109.9	5.0
80°-90°	37.6	1.7
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°	746.2	33.8
0°-40°	1202.9	54.5
0°-60°	1881.8	85.3
0°-90°	2205.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2205.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	967	967	967	967	967	
5°	969	967	960	967	966	92
15°	934	931	924	930	929	263
25°	860	856	848	852	850	395
35°	741	738	731	731	729	461
45°	540	537	529	522	523	412
55°	304	304	301	296	294	276
65°	177	178	176	174	173	177
75°	106	105	104	104	102	112
85°	35	36	35	33	32	38
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	967.0	967.0	967.0	967.0	967.0
2.5°	970.5	968.1	961.0	969.3	968.1
5°	969.3	967.0	959.8	967.0	965.8
7.5°	963.4	962.2	953.8	962.2	959.8
10°	955.0	955.0	946.7	953.8	951.4
12.5°	945.5	944.3	937.1	944.3	943.1
15°	933.5	931.1	924.0	929.9	928.8
17.5°	918.0	916.8	908.5	914.4	912.0
20°	900.1	897.7	890.6	895.3	892.9
22.5°	881.0	878.6	871.5	875.0	873.8
25°	859.5	855.9	847.6	852.4	850.0
27.5°	833.3	832.1	823.7	826.1	823.7
30°	804.6	803.4	797.4	797.4	795.1
32.5°	773.6	774.8	765.2	766.4	761.6
35°	741.3	737.8	730.6	730.6	729.4
37.5°	700.7	698.4	692.4	691.2	690.0
40°	655.4	653.0	644.6	642.2	642.2
42.5°	601.7	599.3	590.9	587.3	582.6
45°	539.6	537.2	528.8	521.7	522.9
47.5°	470.3	472.7	464.4	458.4	457.2
50°	409.5	408.3	401.1	397.5	392.8
52.5°	351.0	352.2	346.2	343.8	337.8
55°	304.4	304.4	300.8	296.1	293.7
57.5°	262.6	265.0	261.4	259.0	256.7
60°	228.0	229.2	229.2	224.4	224.4
62.5°	199.4	200.6	199.4	197.0	197.0
65°	176.7	177.9	175.5	174.3	173.1
67.5°	156.4	157.6	156.4	155.2	152.8
70°	138.5	138.5	137.3	137.3	134.9
72.5°	123.0	121.8	120.6	120.6	119.4
75°	106.2	105.1	103.9	103.9	101.5
77.5°	89.5	88.3	88.3	86.0	84.8
80°	71.6	71.6	70.4	69.2	68.0
82.5°	54.9	53.7	52.5	51.3	50.1
85°	34.6	35.8	34.6	33.4	32.2
87.5°	15.5	16.7	16.7	16.7	15.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)