

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: P688572

Luminaire Tested: SQ4R-PR1-050D-830-1-UNV-STD-W-4

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P688572  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/22/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4R-PR1-050D-830-1-UNV-STD-W-4  
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
500 LUMENS PER FOOT  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1922.1 lumens  
Efficiency: N/A  
Efficacy: 101.7 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.23 / 1.34  
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')  
CIE Type: Direct

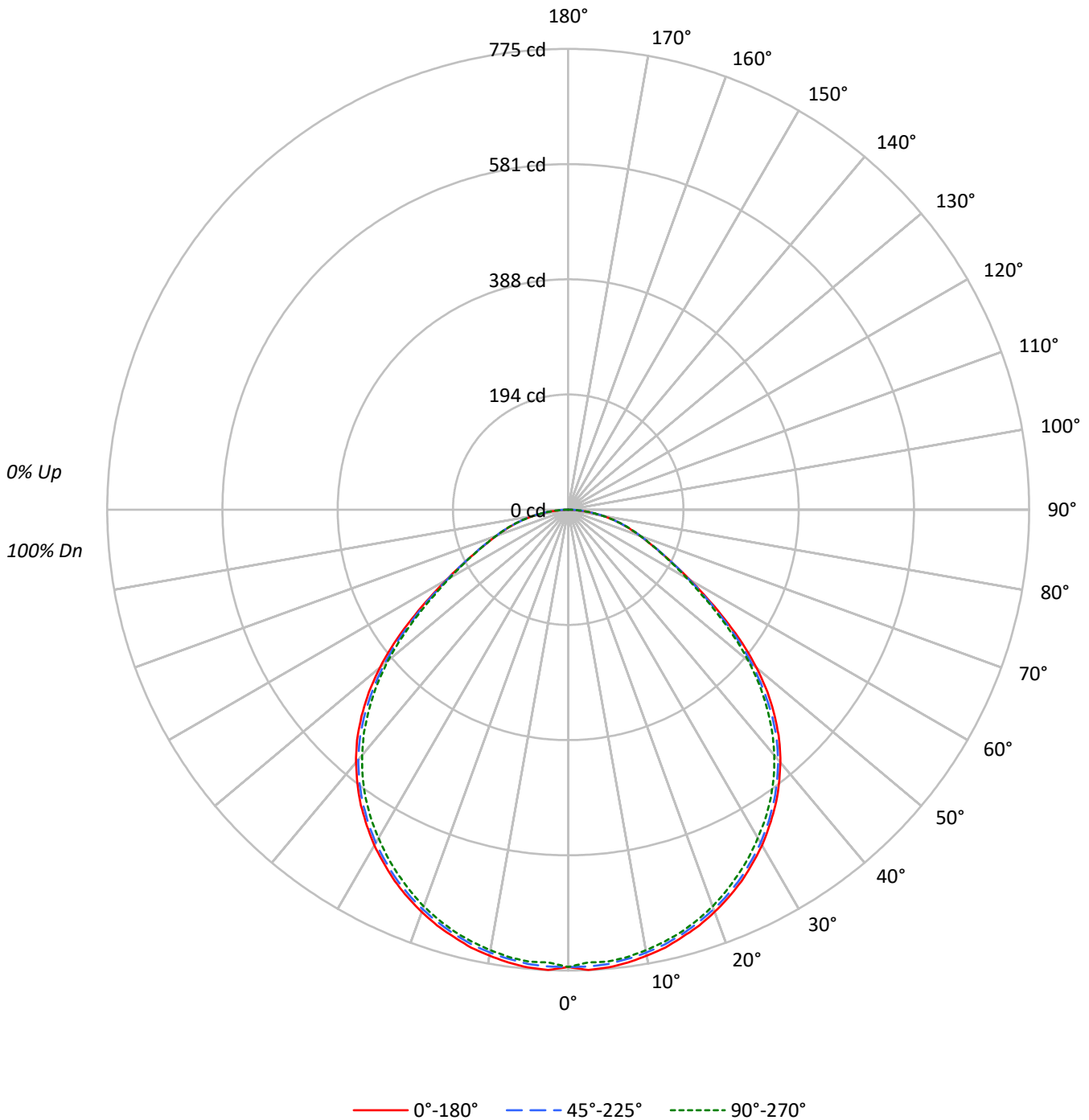
Input Watts (W): 18.9  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	101	98	107	103	99	96	99	96	93		95	92	90		91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78		84	80	76		81	78	75	72
3	92	82	74	68	90	80	73	68	78	71	66		75	70	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	58	50	44	57	49	44		55	49	44		53	48	43	41
7	67	54	46	40	65	53	45	39	52	44	39		50	44	39		49	43	39	37
8	63	49	41	36	61	49	41	35	47	40	35		46	40	35		45	39	35	33
9	58	45	37	32	57	45	37	32	44	37	32		43	36	32		42	36	31	30
10	55	42	34	29	54	41	34	29	40	34	29		40	33	29		39	33	29	27

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

	0°	45°	90°
0°	7402	7402	7402
5°	7468	7411	7373
10°	7445	7393	7354
15°	7412	7367	7327
20°	7376	7327	7273
25°	7323	7274	7189
30°	7245	7193	7089
35°	7137	7075	6974
40°	6975	6900	6775
45°	6690	6573	6437
50°	6189	6040	5922
55°	5403	5280	5168
60°	4552	4513	4425
65°	3936	3952	3923
70°	3617	3634	3634
75°	3474	3474	3497
80°	3266	3304	3266
85°	2629	2927	2927

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 6690 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.7	3.8
10°-20°	208.1	10.8
20°-30°	313.9	16.3
30°-40°	374.1	19.5
40°-50°	369.1	19.2
50°-60°	281.5	14.6
60°-70°	173.8	9.0
70°-80°	99.0	5.2
80°-90°	29.9	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°	594.8	30.9
0°-40°	968.9	50.4
0°-60°	1619.5	84.3
0°-90°	1922.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1922.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	769	769	769	769	769	
5°	773	764	767	764	763	73
15°	744	736	739	736	735	210
25°	689	681	685	678	677	317
35°	607	600	602	594	593	379
45°	491	485	483	474	473	377
55°	322	317	315	309	308	288
65°	173	172	174	172	172	174
75°	93	93	93	94	94	99
85°	24	25	26	26	26	28
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	768.9	768.9	768.9	768.9	768.9
2.5°	774.8	766.2	768.9	766.9	762.2
5°	772.8	764.2	766.9	764.2	762.9
7.5°	768.2	759.6	762.2	759.6	758.9
10°	761.6	753.6	756.3	753.6	752.3
12.5°	754.3	745.7	749.0	745.7	744.4
15°	743.7	735.8	739.1	736.4	735.1
17.5°	733.1	724.5	727.8	725.2	723.2
20°	719.9	711.9	715.2	710.6	709.9
22.5°	705.3	697.3	700.7	694.0	694.0
25°	689.4	680.8	684.8	677.5	676.8
27.5°	670.9	662.9	666.2	658.9	658.3
30°	651.7	643.7	647.0	639.1	637.7
32.5°	629.8	622.5	625.2	617.2	616.6
35°	607.3	600.0	602.0	594.0	593.4
37.5°	582.1	575.5	576.8	568.2	567.5
40°	555.0	548.3	549.0	539.7	539.1
42.5°	525.2	518.5	517.9	508.6	507.9
45°	491.4	484.8	482.8	474.2	472.8
47.5°	454.3	447.7	443.7	436.4	435.8
50°	413.2	406.6	403.3	397.3	395.4
52.5°	368.9	362.3	359.6	354.3	352.3
55°	321.9	316.6	314.6	309.3	307.9
57.5°	276.8	272.8	272.2	266.9	266.2
60°	236.4	234.4	234.4	229.8	229.8
62.5°	202.0	200.7	202.0	199.3	198.7
65°	172.8	171.5	173.5	172.2	172.2
67.5°	148.3	148.3	149.7	149.0	149.0
70°	128.5	128.5	129.1	129.1	129.1
72.5°	110.6	109.9	111.9	111.9	111.3
75°	93.4	93.4	93.4	94.0	94.0
77.5°	76.2	76.2	76.8	76.8	76.2
80°	58.9	59.6	59.6	58.9	58.9
82.5°	41.7	42.4	42.4	42.4	41.7
85°	23.8	25.2	26.5	26.5	26.5
87.5°	8.6	11.3	13.2	13.2	12.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)