

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: P688465

Luminaire Tested: SQ4R-PC3-050D-835-1-UNV-STD-W-4

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P688465  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/22/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4R-PC3-050D-835-1-UNV-STD-W-4  
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
500 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2007.2 lumens  
Efficiency: N/A  
Efficacy: 106.2 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')  
CIE Type: Direct

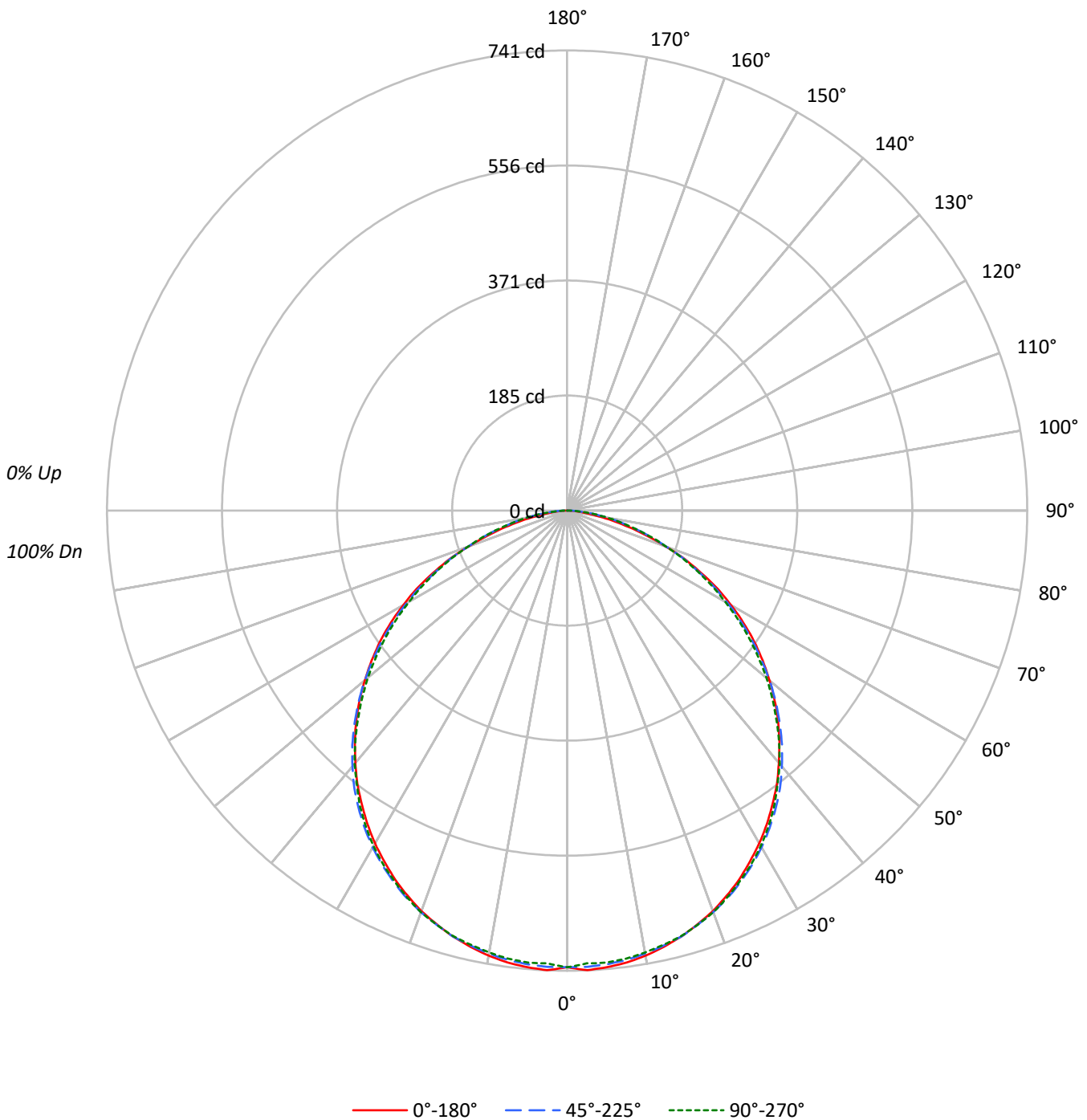
Input Watts (W): 18.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	100	97	106	102	98	95	98	95	92		94	92	89		91	88	87	85
2	99	91	85	79	97	90	83	78	86	81	76		83	78	75		80	76	73	71
3	91	80	72	66	88	79	71	65	76	70	64		73	68	63		71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55		65	59	54		63	58	53	51
5	77	64	55	48	74	63	54	48	61	53	48		59	52	47		57	51	47	44
6	71	58	49	42	69	57	48	42	55	47	42		53	46	41		52	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37		48	42	37		47	41	36	34
8	61	48	39	33	60	47	39	33	46	38	33		44	38	33		43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30		41	34	30		40	34	29	28
10	54	40	32	27	52	40	32	27	39	32	27		38	31	27		37	31	27	25

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

	0°	45°	90°
0°	7079	7079	7079
5°	7132	7087	7061
10°	7115	7082	7062
15°	7078	7078	7071
20°	7031	7052	7052
25°	6965	7015	6994
30°	6880	6963	6933
35°	6778	6881	6833
40°	6666	6760	6691
45°	6545	6591	6489
50°	6373	6373	6271
55°	6172	6091	5999
60°	5873	5755	5663
65°	5429	5319	5274
70°	4754	4791	4771
75°	3824	4229	4255
80°	2717	3587	3626
85°	1657	3005	3005

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 6591 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.6	3.5
10°-20°	199.8	10.0
20°-30°	302.6	15.1
30°-40°	362.8	18.1
40°-50°	369.9	18.4
50°-60°	322.9	16.1
60°-70°	231.2	11.5
70°-80°	118.7	5.9
80°-90°	29.7	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°	572.0	28.5
0°-40°	934.8	46.6
0°-60°	1627.6	81.1
0°-90°	2007.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2007.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	735	735	735	735	735	
5°	738	731	733	731	731	70
15°	710	704	710	710	709	200
25°	656	651	660	658	658	302
35°	577	575	586	581	581	361
45°	481	479	484	478	477	370
55°	368	363	363	357	357	328
65°	238	233	234	232	232	236
75°	103	108	114	114	114	111
85°	15	23	27	28	27	20
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	735.3	735.3	735.3	735.3	735.3
2.5°	740.8	732.6	735.3	733.3	729.9
5°	738.0	730.6	733.3	731.2	730.6
7.5°	734.0	726.5	729.9	728.5	727.8
10°	727.8	720.3	724.4	723.1	722.4
12.5°	719.7	712.9	717.6	716.3	716.3
15°	710.1	704.0	710.1	710.1	709.4
17.5°	698.6	693.1	699.2	699.9	699.2
20°	686.3	680.2	688.3	687.7	688.3
22.5°	671.3	666.6	675.4	673.4	674.0
25°	655.7	650.9	660.4	658.4	658.4
27.5°	637.3	633.9	644.1	642.0	642.0
30°	618.9	615.5	626.4	623.7	623.7
32.5°	598.5	596.4	606.6	603.2	603.2
35°	576.7	575.3	585.5	581.4	581.4
37.5°	554.9	553.5	563.1	558.3	556.3
40°	530.4	529.7	537.9	532.4	532.4
42.5°	505.9	505.2	512.0	505.2	505.2
45°	480.7	479.3	484.1	478.0	476.6
47.5°	453.4	452.1	455.5	448.7	448.0
50°	425.5	424.2	425.5	419.4	418.7
52.5°	396.9	394.2	394.2	388.1	388.1
55°	367.7	362.9	362.9	357.4	357.4
57.5°	337.0	330.9	331.6	326.8	326.1
60°	305.0	298.2	298.9	294.8	294.1
62.5°	273.7	265.5	267.6	262.8	262.8
65°	238.3	232.9	233.5	231.5	231.5
67.5°	205.6	200.2	203.6	201.5	201.5
70°	168.9	165.4	170.2	170.2	169.5
72.5°	134.8	135.5	141.6	141.6	142.3
75°	102.8	107.6	113.7	114.4	114.4
77.5°	73.5	81.7	88.5	88.5	88.5
80°	49.0	58.6	64.7	66.0	65.4
82.5°	29.3	39.5	44.3	45.6	44.9
85°	15.0	23.1	27.2	27.9	27.2
87.5°	5.4	11.6	13.6	13.6	12.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)