

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: P688650

Luminaire Tested: SQ4R-PC3-050D-92765-1-UNV-STD-W-4\_5700K

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P688650  
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-92765-1-UNV-STD-W-4\_5700K  
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
500 LUMENS PER FOOT  
Light Source: 5700K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2109.4 lumens  
Efficiency: N/A  
Efficacy: 99.5 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

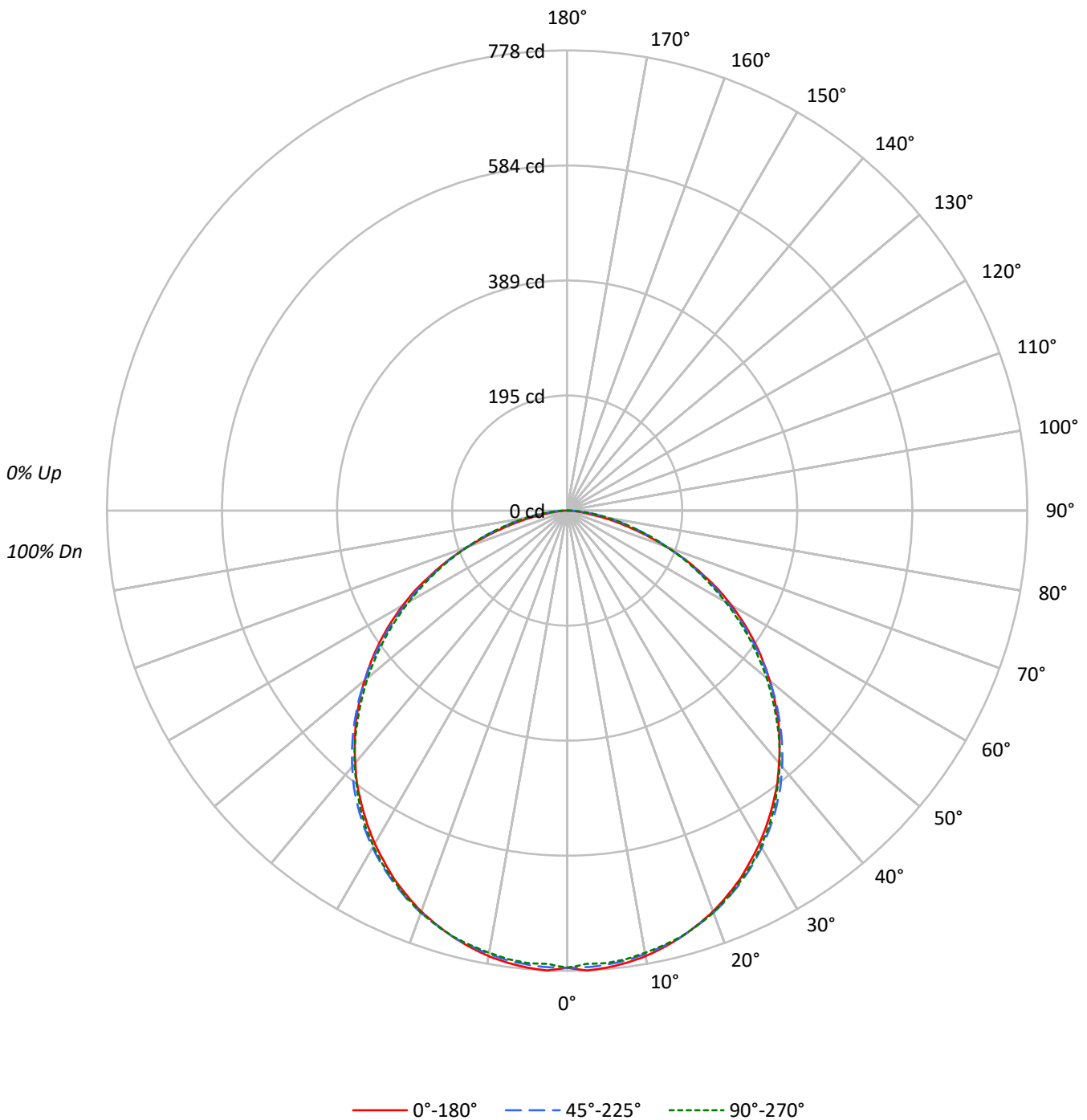
Input Watts (W): 21.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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°	7440	7440	7440
5°	7495	7447	7420
10°	7478	7442	7422
15°	7438	7438	7431
20°	7390	7411	7411
25°	7320	7373	7350
30°	7230	7318	7286
35°	7123	7233	7182
40°	7005	7104	7032
45°	6878	6926	6820
50°	6698	6698	6592
55°	6486	6402	6306
60°	6173	6048	5952
65°	5704	5590	5542
70°	4996	5036	5016
75°	4017	4445	4471
80°	2855	3770	3809
85°	1734	3159	3159

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 6926 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.2	3.5
10°-20°	210.0	10.0
20°-30°	318.0	15.1
30°-40°	381.3	18.1
40°-50°	388.7	18.4
50°-60°	339.3	16.1
60°-70°	242.9	11.5
70°-80°	124.8	5.9
80°-90°	31.2	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°	601.2	28.5
0°-40°	982.4	46.6
0°-60°	1710.5	81.1
0°-90°	2109.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2109.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	773	773	773	773	773	
5°	776	768	771	768	768	74
15°	746	740	746	746	746	211
25°	689	684	694	692	692	317
35°	606	605	615	611	611	379
45°	505	504	509	502	501	389
55°	386	381	381	376	376	345
65°	250	245	245	243	243	248
75°	108	113	120	120	120	116
85°	16	24	29	29	29	21
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	772.8	772.8	772.8	772.8	772.8
2.5°	778.5	769.9	772.8	770.6	767.1
5°	775.6	767.8	770.6	768.5	767.8
7.5°	771.3	763.5	767.1	765.6	764.9
10°	764.9	757.0	761.3	759.9	759.2
12.5°	756.3	749.2	754.2	752.7	752.7
15°	746.3	739.9	746.3	746.3	745.6
17.5°	734.1	728.4	734.9	735.6	734.9
20°	721.3	714.8	723.4	722.7	723.4
22.5°	705.5	700.5	709.8	707.7	708.4
25°	689.1	684.1	694.1	691.9	691.9
27.5°	669.7	666.2	676.9	674.7	674.7
30°	650.4	646.8	658.3	655.4	655.4
32.5°	629.0	626.8	637.5	634.0	634.0
35°	606.1	604.6	615.4	611.1	611.1
37.5°	583.2	581.7	591.7	586.7	584.6
40°	557.4	556.7	565.3	559.5	559.5
42.5°	531.6	530.9	538.1	530.9	530.9
45°	505.2	503.7	508.7	502.3	500.9
47.5°	476.5	475.1	478.7	471.5	470.8
50°	447.2	445.8	447.2	440.8	440.1
52.5°	417.2	414.3	414.3	407.9	407.9
55°	386.4	381.4	381.4	375.7	375.7
57.5°	354.2	347.7	348.5	343.5	342.7
60°	320.6	313.4	314.1	309.8	309.1
62.5°	287.6	279.1	281.2	276.2	276.2
65°	250.4	244.7	245.4	243.3	243.3
67.5°	216.1	210.4	213.9	211.8	211.8
70°	177.5	173.9	178.9	178.9	178.2
72.5°	141.7	142.4	148.8	148.8	149.5
75°	108.0	113.1	119.5	120.2	120.2
77.5°	77.3	85.9	93.0	93.0	93.0
80°	51.5	61.5	68.0	69.4	68.7
82.5°	30.8	41.5	46.5	47.9	47.2
85°	15.7	24.3	28.6	29.3	28.6
87.5°	5.7	12.2	14.3	14.3	12.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)