

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: P688646

Luminaire Tested: SQ4R-PC3-050D-92765-1-UNV-STD-W-4\_3500K

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P688646  
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\_3500K  
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
500 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1922.6 lumens  
Efficiency: N/A  
Efficacy: 90.7 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

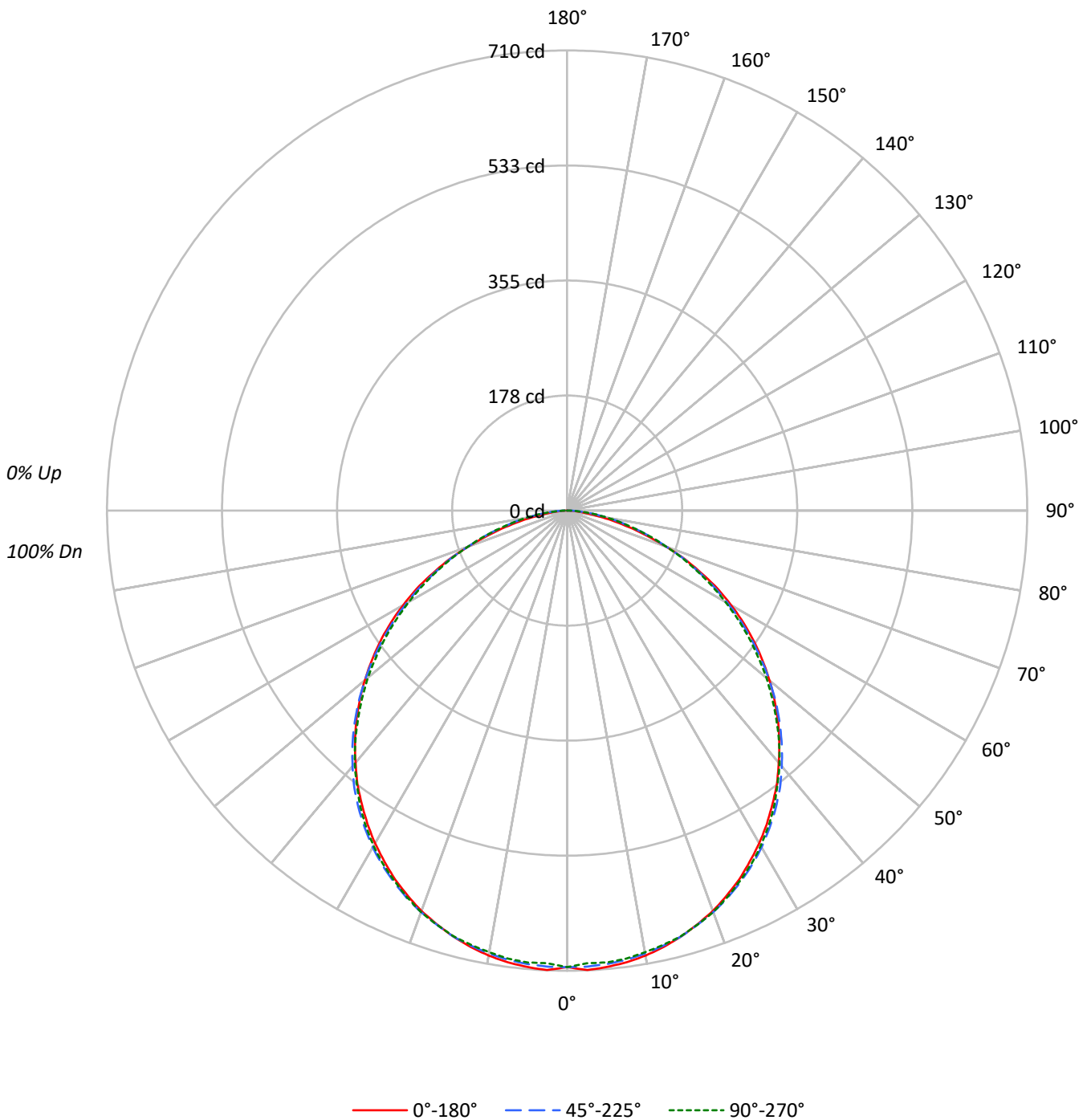
Input Watts (W): 21.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	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	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85					85			
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71					71			
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60					60			
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51					51			
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44					44			
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39					39			
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34					34			
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31					31			
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28					28			
10	54	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25					25			

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

	0°	45°	90°
0°	6781	6781	6781
5°	6832	6788	6763
10°	6816	6783	6764
15°	6780	6780	6774
20°	6735	6755	6755
25°	6671	6720	6699
30°	6590	6670	6641
35°	6492	6592	6545
40°	6384	6475	6409
45°	6268	6313	6215
50°	6105	6105	6007
55°	5912	5834	5747
60°	5626	5513	5424
65°	5201	5096	5050
70°	4552	4588	4571
75°	3664	4051	4077
80°	2606	3437	3471
85°	1580	2883	2883

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 6313 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	66.7	3.5
10°-20°	191.4	10.0
20°-30°	289.8	15.1
30°-40°	347.5	18.1
40°-50°	354.3	18.4
50°-60°	309.3	16.1
60°-70°	221.4	11.5
70°-80°	113.7	5.9
80°-90°	28.4	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°	547.9	28.5
0°-40°	895.4	46.6
0°-60°	1559.0	81.1
0°-90°	1922.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1922.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	704	704	704	704	704	
5°	707	700	702	700	700	67
15°	680	674	680	680	680	192
25°	628	624	633	631	631	289
35°	552	551	561	557	557	346
45°	460	459	464	458	456	355
55°	352	348	348	342	342	314
65°	228	223	224	222	222	226
75°	98	103	109	110	110	106
85°	14	22	26	27	26	19
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	704.3	704.3	704.3	704.3	704.3
2.5°	709.6	701.7	704.3	702.4	699.1
5°	706.9	699.8	702.4	700.4	699.8
7.5°	703.0	695.9	699.1	697.8	697.2
10°	697.2	690.0	693.9	692.6	691.9
12.5°	689.3	682.8	687.4	686.1	686.1
15°	680.2	674.3	680.2	680.2	679.6
17.5°	669.1	663.9	669.8	670.4	669.8
20°	657.4	651.5	659.3	658.7	659.3
22.5°	643.0	638.5	646.9	645.0	645.6
25°	628.0	623.5	632.6	630.6	630.6
27.5°	610.4	607.2	616.9	615.0	615.0
30°	592.8	589.6	600.0	597.4	597.4
32.5°	573.3	571.3	581.1	577.8	577.8
35°	552.4	551.1	560.9	556.9	556.9
37.5°	531.5	530.2	539.3	534.8	532.8
40°	508.0	507.4	515.2	510.0	510.0
42.5°	484.6	483.9	490.4	483.9	483.9
45°	460.4	459.1	463.7	457.8	456.5
47.5°	434.3	433.0	436.3	429.8	429.1
50°	407.6	406.3	407.6	401.7	401.1
52.5°	380.2	377.6	377.6	371.7	371.7
55°	352.2	347.6	347.6	342.4	342.4
57.5°	322.8	317.0	317.6	313.0	312.4
60°	292.2	285.6	286.3	282.4	281.7
62.5°	262.2	254.3	256.3	251.7	251.7
65°	228.3	223.0	223.7	221.7	221.7
67.5°	197.0	191.7	195.0	193.0	193.0
70°	161.7	158.5	163.0	163.0	162.4
72.5°	129.1	129.8	135.7	135.7	136.3
75°	98.5	103.0	108.9	109.6	109.6
77.5°	70.4	78.3	84.8	84.8	84.8
80°	47.0	56.1	62.0	63.3	62.6
82.5°	28.0	37.8	42.4	43.7	43.0
85°	14.3	22.2	26.1	26.7	26.1
87.5°	5.2	11.1	13.0	13.0	11.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)