

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: P688467

Luminaire Tested: SQ4R-PC3-050D-930-1-UNV-STD-W-4

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P688467  
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-930-1-UNV-STD-W-4  
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
500 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1629.9 lumens  
Efficiency: N/A  
Efficacy: 86.2 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

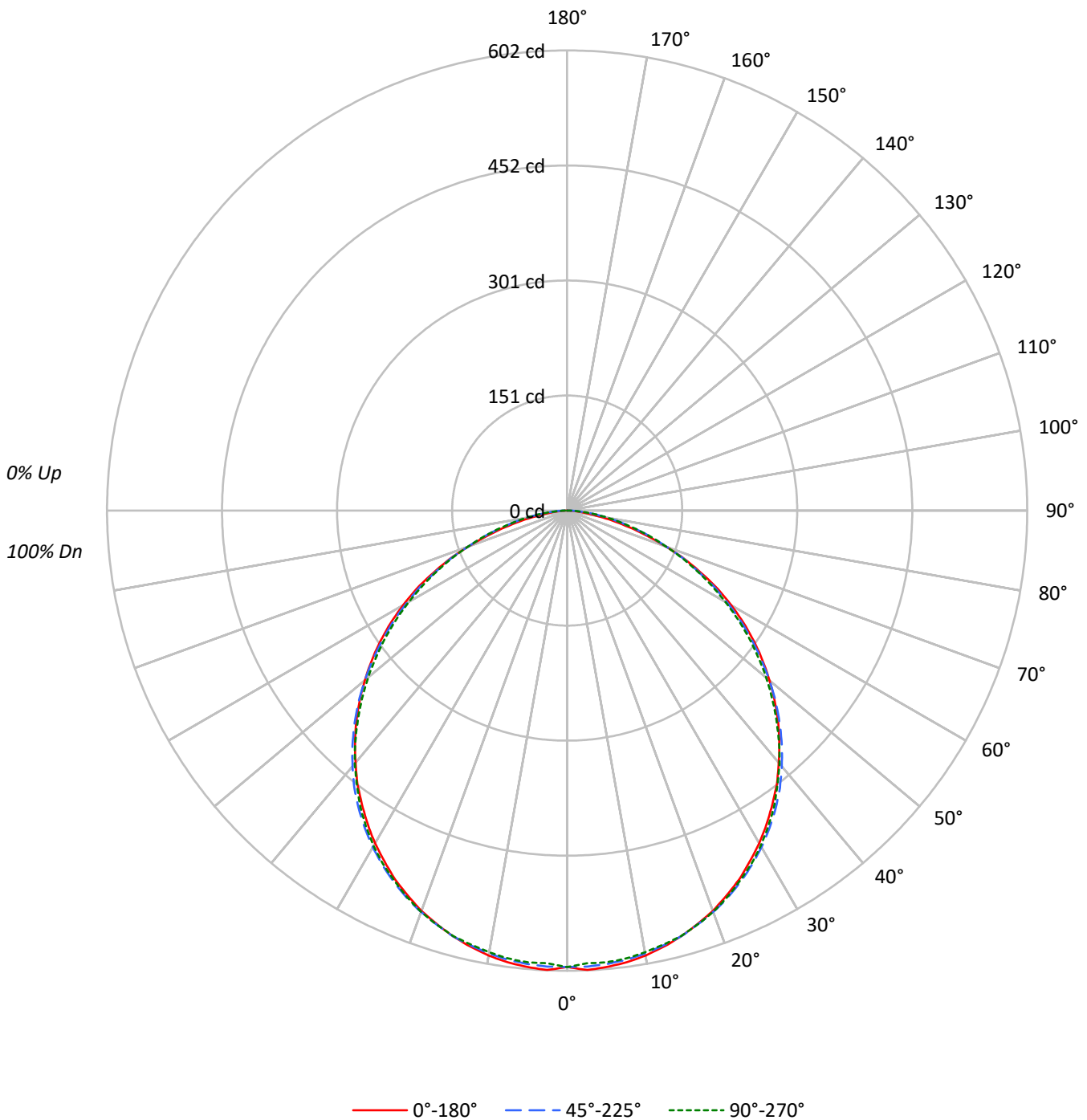
Input Watts (W): 18.9  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	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°	5748	5748	5748
5°	5792	5754	5733
10°	5778	5751	5735
15°	5747	5747	5742
20°	5710	5726	5726
25°	5655	5697	5679
30°	5587	5654	5629
35°	5504	5588	5549
40°	5413	5490	5433
45°	5314	5352	5269
50°	5175	5175	5092
55°	5010	4946	4873
60°	4769	4673	4598
65°	4408	4319	4283
70°	3859	3890	3876
75°	3106	3433	3456
80°	2207	2911	2944
85°	1348	2441	2441

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 5352 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	56.5	3.5
10°-20°	162.2	10.0
20°-30°	245.7	15.1
30°-40°	294.6	18.1
40°-50°	300.4	18.4
50°-60°	262.2	16.1
60°-70°	187.7	11.5
70°-80°	96.4	5.9
80°-90°	24.1	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°	464.5	28.5
0°-40°	759.1	46.6
0°-60°	1321.6	81.1
0°-90°	1629.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1629.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	597	597	597	597	597	
5°	599	593	595	594	593	57
15°	577	572	577	577	576	163
25°	532	528	536	535	535	245
35°	468	467	476	472	472	293
45°	390	389	393	388	387	301
55°	298	295	295	290	290	266
65°	194	189	190	188	188	192
75°	84	87	92	93	93	90
85°	12	19	22	23	22	16
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	597.1	597.1	597.1	597.1	597.1
2.5°	601.5	594.9	597.1	595.4	592.7
5°	599.3	593.2	595.4	593.8	593.2
7.5°	596.0	589.9	592.7	591.6	591.0
10°	591.0	584.9	588.3	587.1	586.6
12.5°	584.4	578.9	582.7	581.6	581.6
15°	576.6	571.7	576.6	576.6	576.1
17.5°	567.2	562.8	567.8	568.3	567.8
20°	557.3	552.3	558.9	558.4	558.9
22.5°	545.1	541.3	548.4	546.8	547.3
25°	532.4	528.5	536.3	534.6	534.6
27.5°	517.5	514.7	523.0	521.4	521.4
30°	502.6	499.8	508.6	506.4	506.4
32.5°	486.0	484.3	492.6	489.8	489.8
35°	468.3	467.2	475.5	472.1	472.1
37.5°	450.6	449.5	457.2	453.4	451.7
40°	430.7	430.1	436.8	432.3	432.3
42.5°	410.8	410.2	415.8	410.2	410.2
45°	390.3	389.2	393.1	388.1	387.0
47.5°	368.2	367.1	369.9	364.3	363.8
50°	345.5	344.4	345.5	340.6	340.0
52.5°	322.3	320.1	320.1	315.1	315.1
55°	298.5	294.7	294.7	290.3	290.3
57.5°	273.7	268.7	269.2	265.4	264.8
60°	247.7	242.2	242.7	239.4	238.8
62.5°	222.3	215.6	217.3	213.4	213.4
65°	193.5	189.1	189.6	188.0	188.0
67.5°	167.0	162.5	165.3	163.6	163.6
70°	137.1	134.3	138.2	138.2	137.7
72.5°	109.5	110.0	115.0	115.0	115.5
75°	83.5	87.4	92.3	92.9	92.9
77.5°	59.7	66.3	71.9	71.9	71.9
80°	39.8	47.5	52.5	53.6	53.1
82.5°	23.8	32.1	35.9	37.0	36.5
85°	12.2	18.8	22.1	22.7	22.1
87.5°	4.4	9.4	11.1	11.1	10.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)