

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: P688474

Luminaire Tested: SQ4R-PC3-075D-935-1-UNV-STD-W-4

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P688474  
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-PC3-075D-935-1-UNV-STD-W-4  
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
750 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2533.5 lumens  
Efficiency: N/A  
Efficacy: 94.5 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

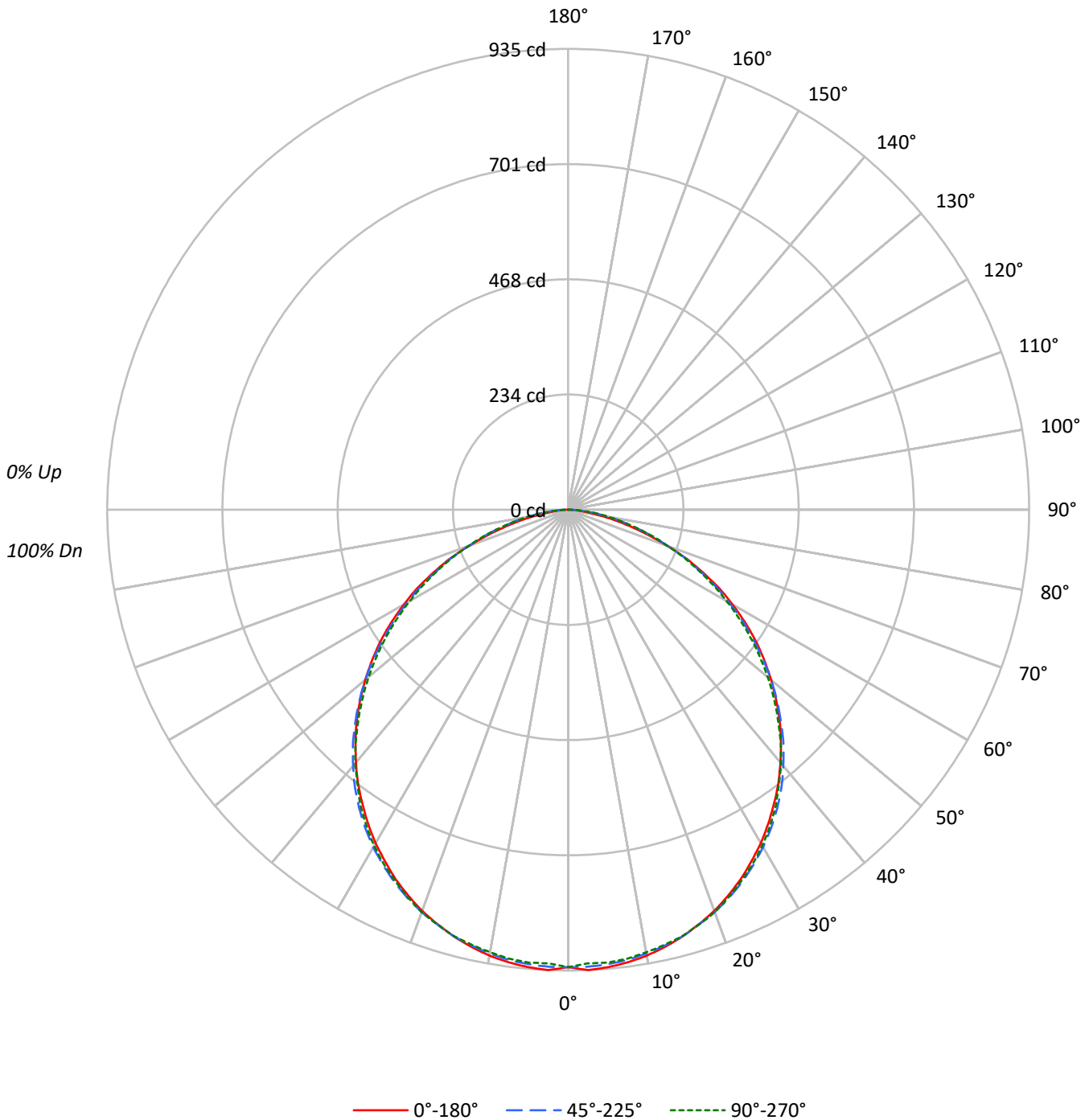
Input Watts (W): 26.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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°	8935	8935	8935
5°	9003	8945	8911
10°	8981	8939	8914
15°	8933	8933	8925
20°	8875	8901	8901
25°	8791	8855	8827
30°	8684	8789	8751
35°	8555	8687	8625
40°	8414	8532	8445
45°	8260	8319	8191
50°	8044	8044	7916
55°	7790	7689	7573
60°	7413	7265	7149
65°	6852	6716	6656
70°	5998	6046	6024
75°	4828	5338	5371
80°	3432	4524	4574
85°	2088	3800	3800

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 8319 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	87.9	3.5
10°-20°	252.2	10.0
20°-30°	381.9	15.1
30°-40°	457.9	18.1
40°-50°	466.9	18.4
50°-60°	407.5	16.1
60°-70°	291.8	11.5
70°-80°	149.9	5.9
80°-90°	37.5	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°	722.0	28.5
0°-40°	1179.9	46.6
0°-60°	2054.4	81.1
0°-90°	2533.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2533.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	928	928	928	928	928	
5°	932	922	926	923	922	89
15°	896	889	896	896	896	253
25°	828	822	834	831	831	381
35°	728	726	739	734	734	456
45°	607	605	611	603	602	467
55°	464	458	458	451	451	414
65°	301	294	295	292	292	298
75°	130	136	144	144	144	140
85°	19	29	34	35	34	25
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	928.1	928.1	928.1	928.1	928.1
2.5°	935.0	924.7	928.1	925.6	921.3
5°	931.6	922.1	925.6	923.0	922.1
7.5°	926.4	917.0	921.3	919.5	918.7
10°	918.7	909.2	914.4	912.7	911.8
12.5°	908.4	899.8	905.8	904.1	904.1
15°	896.3	888.6	896.3	896.3	895.5
17.5°	881.7	874.9	882.6	883.4	882.6
20°	866.3	858.5	868.8	868.0	868.8
22.5°	847.4	841.3	852.5	849.9	850.8
25°	827.6	821.6	833.6	831.0	831.0
27.5°	804.4	800.1	813.0	810.4	810.4
30°	781.2	776.9	790.6	787.2	787.2
32.5°	755.4	752.8	765.7	761.4	761.4
35°	727.9	726.2	739.1	733.9	733.9
37.5°	700.4	698.7	710.7	704.7	702.1
40°	669.5	668.6	678.9	672.0	672.0
42.5°	638.5	637.7	646.3	637.7	637.7
45°	606.7	605.0	611.0	603.3	601.6
47.5°	572.3	570.6	574.9	566.3	565.5
50°	537.1	535.4	537.1	529.4	528.5
52.5°	501.0	497.6	497.6	489.8	489.8
55°	464.1	458.1	458.1	451.2	451.2
57.5°	425.4	417.7	418.5	412.5	411.6
60°	385.0	376.4	377.3	372.1	371.3
62.5°	345.5	335.2	337.7	331.7	331.7
65°	300.8	293.9	294.8	292.2	292.2
67.5°	259.5	252.7	257.0	254.4	254.4
70°	213.1	208.8	214.8	214.8	214.0
72.5°	170.2	171.0	178.8	178.8	179.6
75°	129.8	135.8	143.5	144.4	144.4
77.5°	92.8	103.1	111.7	111.7	111.7
80°	61.9	73.9	81.6	83.4	82.5
82.5°	37.0	49.8	55.9	57.6	56.7
85°	18.9	29.2	34.4	35.2	34.4
87.5°	6.9	14.6	17.2	17.2	15.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)