

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: P688472

Luminaire Tested: SQ4R-PC3-075D-840-1-UNV-STD-W-4

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P688472  
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-840-1-UNV-STD-W-4  
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
750 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3033.0 lumens  
Efficiency: N/A  
Efficacy: 113.2 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

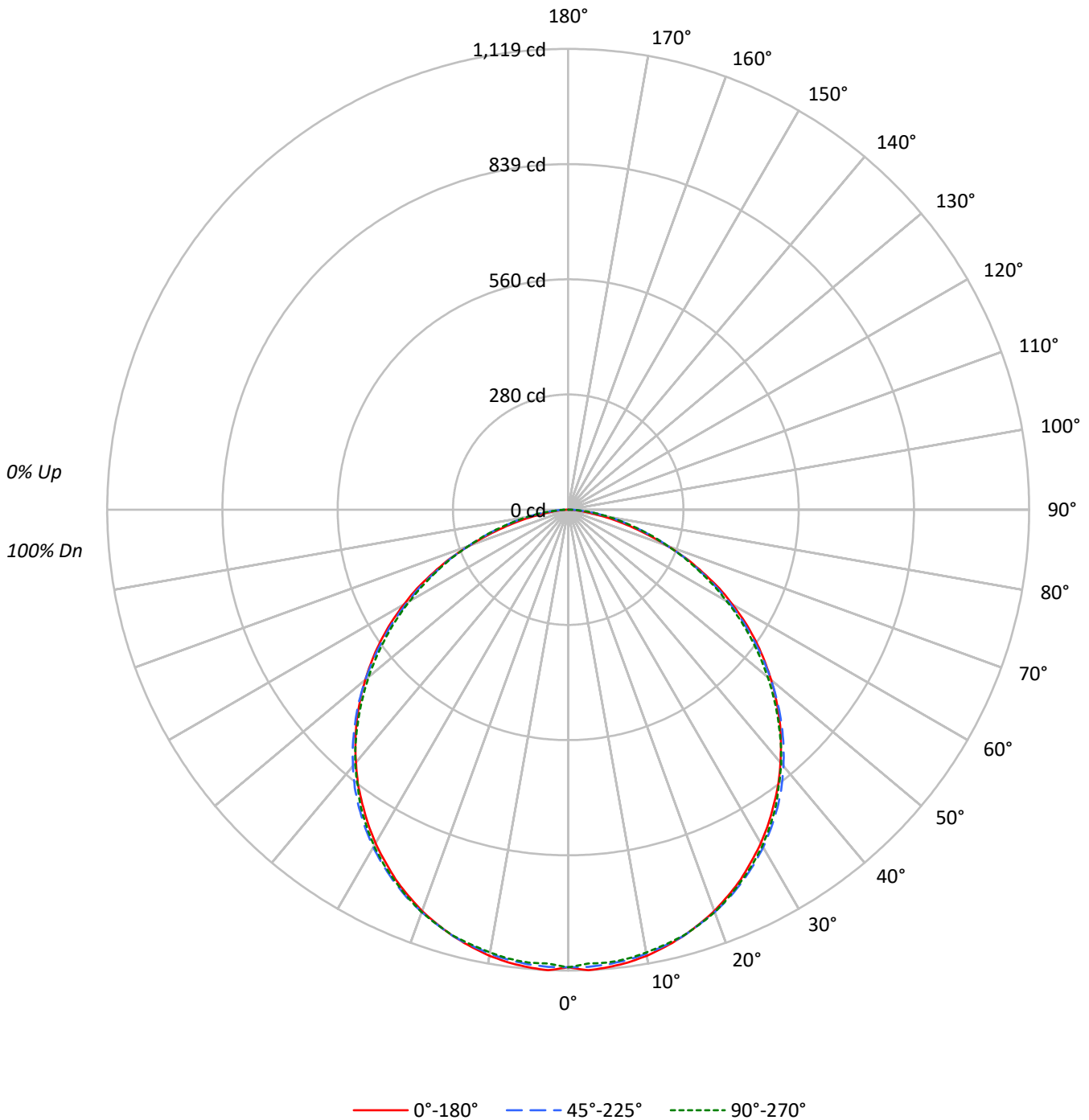
Input Watts (W): 26.8  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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°	10697	10697	10697
5°	10777	10708	10668
10°	10751	10702	10671
15°	10696	10696	10685
20°	10624	10656	10656
25°	10525	10601	10568
30°	10396	10522	10476
35°	10241	10399	10326
40°	10072	10215	10111
45°	9889	9959	9806
50°	9631	9631	9476
55°	9326	9205	9065
60°	8874	8697	8557
65°	8203	8039	7969
70°	7181	7240	7212
75°	5780	6390	6428
80°	4108	5417	5478
85°	2496	4551	4551

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 9959 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	105.2	3.5
10°-20°	301.9	10.0
20°-30°	457.2	15.1
30°-40°	548.2	18.1
40°-50°	559.0	18.4
50°-60°	487.9	16.1
60°-70°	349.3	11.5
70°-80°	179.4	5.9
80°-90°	44.9	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°	864.4	28.5
0°-40°	1412.6	46.6
0°-60°	2459.4	81.1
0°-90°	3033.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3033.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1111	1111	1111	1111	1111	
5°	1115	1104	1108	1105	1104	106
15°	1073	1064	1073	1073	1072	303
25°	991	984	998	995	995	456
35°	871	869	885	879	879	545
45°	726	724	732	722	720	559
55°	556	548	548	540	540	496
65°	360	352	353	350	350	357
75°	155	163	172	173	173	167
85°	23	35	41	42	41	30
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1111.1	1111.1	1111.1	1111.1	1111.1
2.5°	1119.4	1107.0	1111.1	1108.0	1102.9
5°	1115.2	1103.9	1108.0	1104.9	1103.9
7.5°	1109.1	1097.7	1102.9	1100.8	1099.8
10°	1099.8	1088.5	1094.7	1092.6	1091.6
12.5°	1087.5	1077.2	1084.4	1082.3	1082.3
15°	1073.1	1063.8	1073.1	1073.1	1072.0
17.5°	1055.6	1047.3	1056.6	1057.6	1056.6
20°	1037.0	1027.8	1040.1	1039.1	1040.1
22.5°	1014.4	1007.2	1020.6	1017.5	1018.5
25°	990.8	983.5	998.0	994.9	994.9
27.5°	963.0	957.8	973.3	970.2	970.2
30°	935.2	930.1	946.5	942.4	942.4
32.5°	904.3	901.2	916.7	911.5	911.5
35°	871.4	869.4	884.8	878.6	878.6
37.5°	838.5	836.4	850.8	843.6	840.5
40°	801.4	800.4	812.8	804.5	804.5
42.5°	764.4	763.4	773.7	763.4	763.4
45°	726.3	724.3	731.5	722.2	720.2
47.5°	685.2	683.1	688.3	678.0	677.0
50°	643.0	641.0	643.0	633.8	632.7
52.5°	599.8	595.7	595.7	586.4	586.4
55°	555.6	548.4	548.4	540.1	540.1
57.5°	509.3	500.0	501.0	493.8	492.8
60°	460.9	450.6	451.7	445.5	444.4
62.5°	413.6	401.2	404.3	397.1	397.1
65°	360.1	351.9	352.9	349.8	349.8
67.5°	310.7	302.5	307.6	304.5	304.5
70°	255.1	250.0	257.2	257.2	256.2
72.5°	203.7	204.7	214.0	214.0	215.0
75°	155.4	162.6	171.8	172.8	172.8
77.5°	111.1	123.5	133.7	133.7	133.7
80°	74.1	88.5	97.7	99.8	98.8
82.5°	44.2	59.7	66.9	68.9	67.9
85°	22.6	35.0	41.2	42.2	41.2
87.5°	8.2	17.5	20.6	20.6	18.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)