

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: P688475

Luminaire Tested: SQ4R-PC3-075D-940-1-UNV-STD-W-4

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P688475  
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-940-1-UNV-STD-W-4  
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
750 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2522.3 lumens  
Efficiency: N/A  
Efficacy: 94.1 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

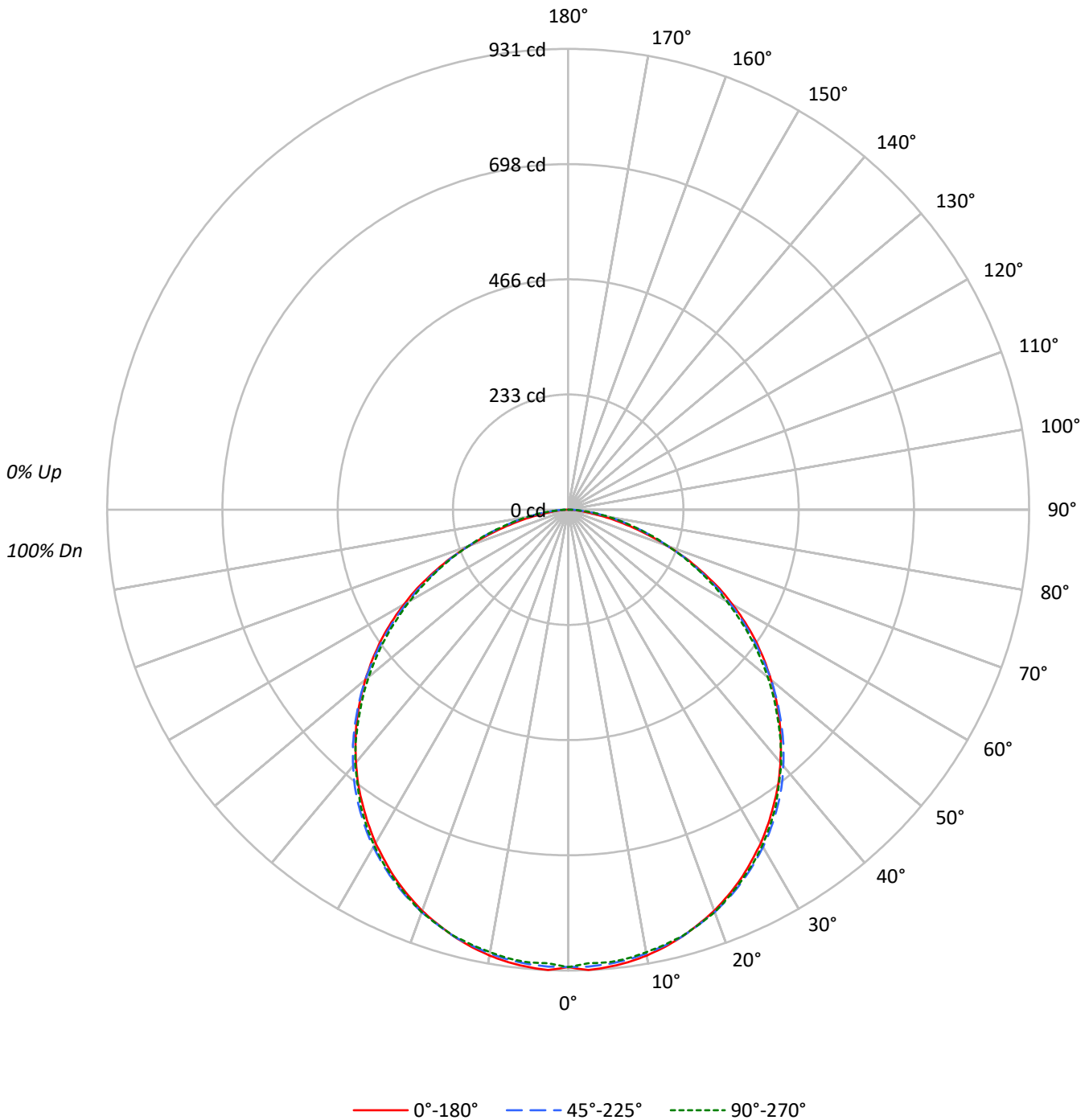
Input Watts (W): 26.8  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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°	8896	8896	8896
5°	8963	8905	8872
10°	8941	8899	8875
15°	8895	8895	8886
20°	8835	8862	8862
25°	8752	8816	8789
30°	8645	8750	8712
35°	8517	8648	8588
40°	8376	8494	8409
45°	8224	8282	8154
50°	8008	8008	7881
55°	7755	7654	7540
60°	7380	7232	7117
65°	6823	6686	6627
70°	5973	6021	5996
75°	4806	5315	5345
80°	3415	4507	4552
85°	2077	3778	3778

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 8282 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	87.5	3.5
10°-20°	251.1	10.0
20°-30°	380.2	15.1
30°-40°	455.9	18.1
40°-50°	464.8	18.4
50°-60°	405.7	16.1
60°-70°	290.5	11.5
70°-80°	149.2	5.9
80°-90°	37.3	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°	718.8	28.5
0°-40°	1174.7	46.6
0°-60°	2045.3	81.1
0°-90°	2522.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2522.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	924	924	924	924	924	
5°	928	918	922	919	918	88
15°	892	885	892	892	892	252
25°	824	818	830	827	827	379
35°	725	723	736	731	731	453
45°	604	602	608	601	599	465
55°	462	456	456	449	449	412
65°	300	293	294	291	291	297
75°	129	135	143	144	144	139
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°	924.0	924.0	924.0	924.0	924.0
2.5°	930.9	920.6	924.0	921.5	917.2
5°	927.5	918.0	921.5	918.9	918.0
7.5°	922.3	912.9	917.2	915.5	914.6
10°	914.6	905.2	910.3	908.6	907.8
12.5°	904.4	895.8	901.8	900.1	900.1
15°	892.4	884.7	892.4	892.4	891.5
17.5°	877.8	871.0	878.7	879.5	878.7
20°	862.4	854.7	865.0	864.1	865.0
22.5°	843.6	837.6	848.7	846.2	847.0
25°	823.9	817.9	829.9	827.4	827.4
27.5°	800.8	796.5	809.4	806.8	806.8
30°	777.7	773.4	787.1	783.7	783.7
32.5°	752.1	749.5	762.3	758.0	758.0
35°	724.7	723.0	735.8	730.7	730.7
37.5°	697.3	695.6	707.6	701.6	699.0
40°	666.5	665.6	675.9	669.1	669.1
42.5°	635.7	634.8	643.4	634.8	634.8
45°	604.0	602.3	608.3	600.6	598.9
47.5°	569.8	568.1	572.4	563.8	563.0
50°	534.7	533.0	534.7	527.0	526.2
52.5°	498.8	495.4	495.4	487.7	487.7
55°	462.0	456.0	456.0	449.2	449.2
57.5°	423.5	415.8	416.7	410.7	409.8
60°	383.3	374.7	375.6	370.5	369.6
62.5°	343.9	333.7	336.2	330.3	330.3
65°	299.5	292.6	293.5	290.9	290.9
67.5°	258.4	251.5	255.8	253.3	253.3
70°	212.2	207.9	213.9	213.9	213.0
72.5°	169.4	170.3	178.0	178.0	178.8
75°	129.2	135.2	142.9	143.7	143.7
77.5°	92.4	102.7	111.2	111.2	111.2
80°	61.6	73.6	81.3	83.0	82.1
82.5°	36.8	49.6	55.6	57.3	56.5
85°	18.8	29.1	34.2	35.1	34.2
87.5°	6.8	14.5	17.1	17.1	15.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)