

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: P688961

Luminaire Tested: SQ4R-PW1-050D-92765-1-UNV-STD-W-4\_5000K

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P688961  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2203-586-35)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/22/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4R-PW1-050D-92765-1-UNV-STD-W-4\_5000K  
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
500 LUMENS PER FOOT  
Light Source: 5000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2000.0 lumens  
Efficiency: N/A  
Efficacy: 94.3 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.2 / 1.29  
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')  
CIE Type: Direct

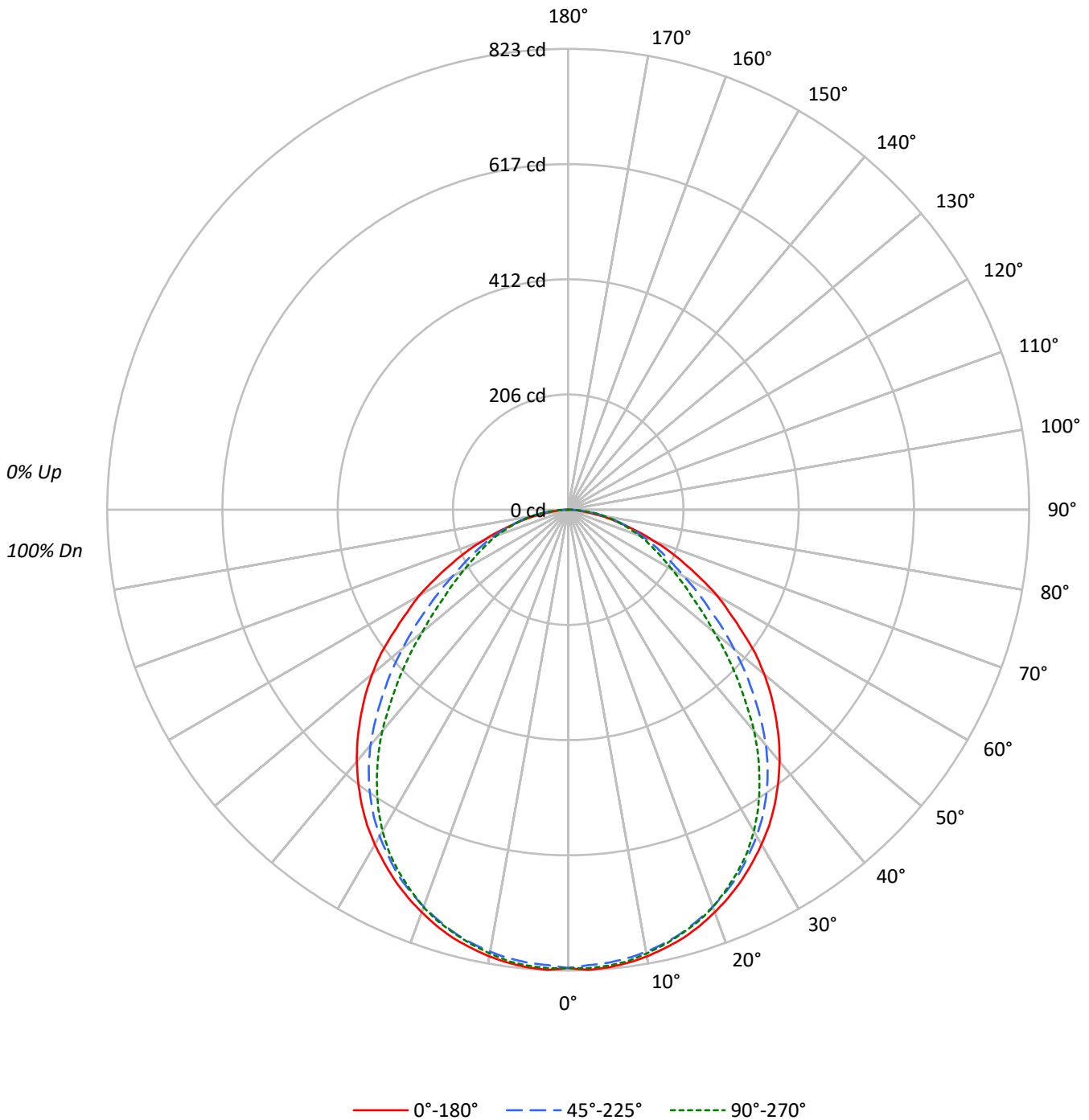
Input Watts (W): 21.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	109	105	101	97	107	103	99	96	99	96	93		95	92	90		91	89	87	85
2	100	92	86	81	98	91	85	80	87	82	78		84	80	76		81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66		75	69	65		72	68	64	62
4	85	73	65	58	82	72	64	58	69	63	57		67	61	56		65	60	56	54
5	78	66	57	51	76	65	57	50	63	55	50		61	54	49		59	53	49	47
6	72	59	51	45	70	59	50	44	57	49	44		55	49	44		54	48	43	41
7	67	54	46	40	65	53	45	40	52	45	39		50	44	39		49	43	39	37
8	63	50	41	36	61	49	41	36	48	40	35		46	40	35		45	39	35	33
9	59	46	38	32	57	45	37	32	44	37	32		43	36	32		42	36	32	30
10	55	42	34	29	54	42	34	29	41	34	29		40	33	29		39	33	29	27

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

	0°	45°	90°
0°	7880	7880	7880
5°	7930	7849	7900
10°	7919	7837	7869
15°	7896	7802	7812
20°	7837	7729	7739
25°	7767	7644	7589
30°	7673	7486	7368
35°	7555	7259	6999
40°	7378	6902	6492
45°	7134	6375	5816
50°	6839	5783	5089
55°	6358	5139	4503
60°	5915	4598	4132
65°	5249	4267	3907
70°	4560	4056	3851
75°	3757	3835	3679
80°	2977	3615	3615
85°	2209	3259	3369

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 7134 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	77.7	3.9
10°-20°	221.8	11.1
20°-30°	332.3	16.6
30°-40°	386.0	19.3
40°-50°	364.2	18.2
50°-60°	284.2	14.2
60°-70°	192.9	9.6
70°-80°	108.6	5.4
80°-90°	32.2	1.6
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°	631.7	31.6
0°-40°	1017.8	50.9
0°-60°	1666.2	83.3
0°-90°	2000.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2000.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	818	818	818	818	818	
5°	821	818	812	818	818	78
15°	792	789	783	787	784	223
25°	731	728	720	718	714	337
35°	643	636	618	604	596	402
45°	524	508	468	439	427	404
55°	379	357	306	277	268	340
65°	230	209	187	176	172	230
75°	101	105	103	99	99	110
85°	20	28	30	30	30	24
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	818.5	818.5	818.5	818.5	818.5
2.5°	822.7	820.6	814.3	820.6	819.6
5°	820.6	818.5	812.2	818.5	817.5
7.5°	816.4	815.4	808.0	814.3	813.3
10°	810.1	809.1	801.7	807.0	804.9
12.5°	801.7	800.7	793.3	797.5	795.4
15°	792.2	789.1	782.8	787.0	783.8
17.5°	779.6	776.5	769.1	772.2	771.2
20°	764.9	761.7	754.4	757.5	755.4
22.5°	749.1	745.9	737.5	738.6	735.4
25°	731.2	728.1	719.6	717.5	714.4
27.5°	711.2	709.1	696.5	694.4	691.2
30°	690.2	687.0	673.4	669.1	662.8
32.5°	668.1	661.8	647.0	638.6	631.3
35°	642.8	636.5	617.6	603.9	595.5
37.5°	615.5	606.0	585.0	566.0	557.6
40°	587.1	576.6	549.2	524.0	516.6
42.5°	556.6	543.9	509.2	482.9	470.3
45°	524.0	508.2	468.2	438.7	427.2
47.5°	491.3	471.3	428.2	396.6	384.0
50°	456.6	432.4	386.1	352.5	339.8
52.5°	420.8	394.5	347.2	312.5	303.0
55°	378.8	356.7	306.2	276.7	268.3
57.5°	340.9	316.7	272.5	247.2	240.9
60°	307.2	277.8	238.8	219.9	214.6
62.5°	268.3	242.0	211.5	196.7	191.5
65°	230.4	209.4	187.3	175.7	171.5
67.5°	197.8	179.9	165.2	155.7	153.6
70°	162.0	152.6	144.1	136.8	136.8
72.5°	131.5	128.4	123.1	118.9	115.7
75°	101.0	105.2	103.1	98.9	98.9
77.5°	76.8	83.1	84.2	82.1	83.1
80°	53.7	63.1	65.2	64.2	65.2
82.5°	33.7	45.2	47.3	47.3	48.4
85°	20.0	28.4	29.5	29.5	30.5
87.5°	8.4	13.7	14.7	14.7	14.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)