

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: P688609

Luminaire Tested: SQ4R-PW1-050D-835-1-UNV-STD-W-4

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P688609  
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-835-1-UNV-STD-W-4  
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
500 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1900.9 lumens  
Efficiency: N/A  
Efficacy: 100.6 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

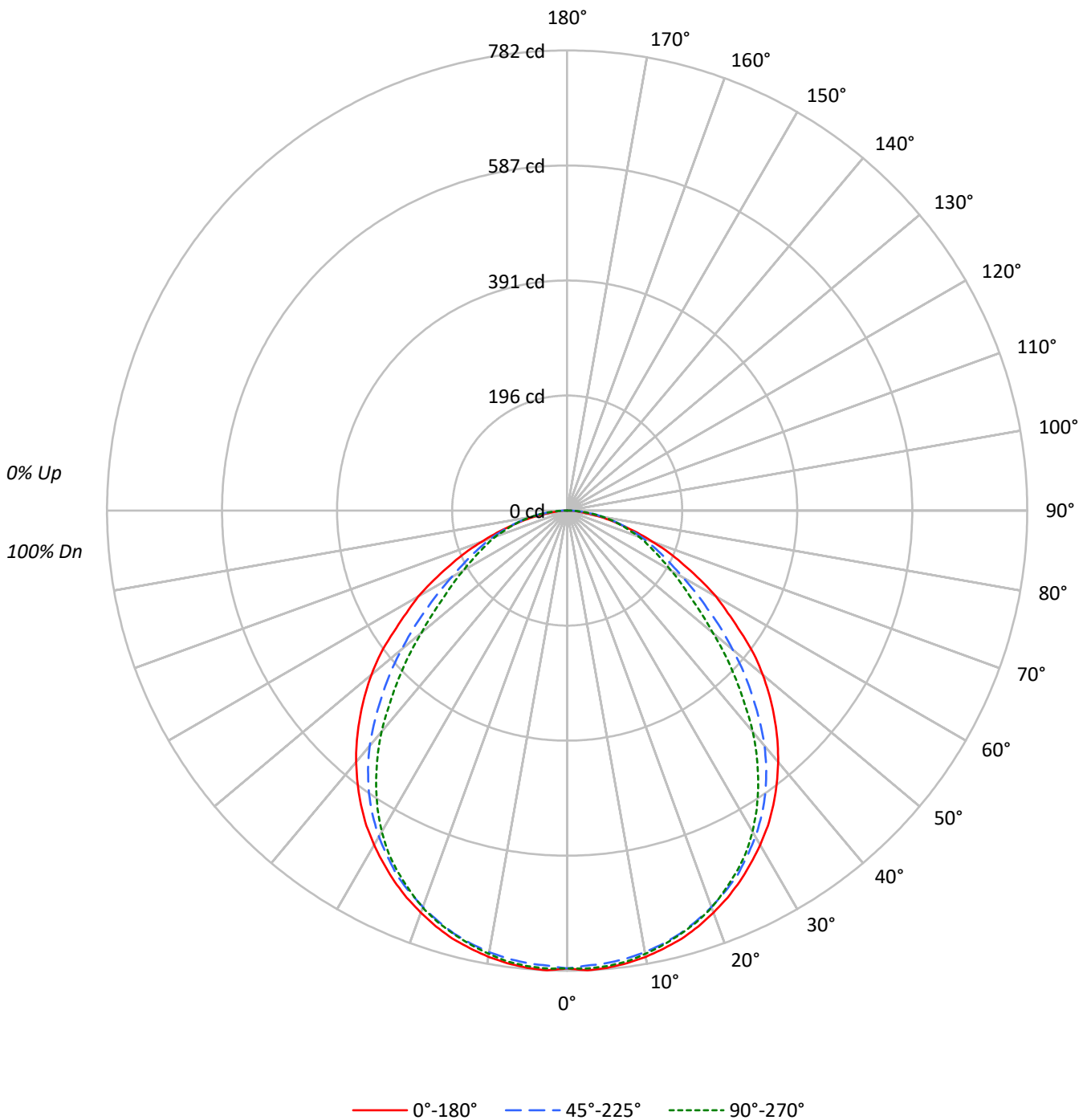
Input Watts (W): 18.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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°	7490	7490	7490
5°	7538	7461	7509
10°	7527	7449	7479
15°	7505	7415	7425
20°	7448	7346	7356
25°	7383	7266	7213
30°	7293	7115	7004
35°	7181	6899	6652
40°	7013	6560	6171
45°	6780	6059	5528
50°	6500	5497	4838
55°	6043	4884	4280
60°	5622	4371	3928
65°	4989	4055	3713
70°	4335	3856	3659
75°	3571	3645	3497
80°	2828	3437	3437
85°	2099	3093	3203

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 6780 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.8	3.9
10°-20°	210.8	11.1
20°-30°	315.8	16.6
30°-40°	366.9	19.3
40°-50°	346.2	18.2
50°-60°	270.1	14.2
60°-70°	183.4	9.6
70°-80°	103.3	5.4
80°-90°	30.7	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°	600.4	31.6
0°-40°	967.4	50.9
0°-60°	1583.7	83.3
0°-90°	1900.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1900.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	778	778	778	778	778	
5°	780	778	772	778	777	74
15°	753	750	744	748	745	212
25°	695	692	684	682	679	320
35°	611	605	587	574	566	382
45°	498	483	445	417	406	384
55°	360	339	291	263	255	323
65°	219	199	178	167	163	219
75°	96	100	98	94	94	104
85°	19	27	28	28	29	23
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	778	778	778	778	778
2.5°	782	780	774	780	779
5°	780	778	772	778	777
7.5°	776	775	768	774	773
10°	770	769	762	767	765
12.5°	762	761	754	758	756
15°	753	750	744	748	745
17.5°	741	738	731	734	733
20°	727	724	717	720	718
22.5°	712	709	701	702	699
25°	695	692	684	682	679
27.5°	676	674	662	660	657
30°	656	653	640	636	630
32.5°	635	629	615	607	600
35°	611	605	587	574	566
37.5°	585	576	556	538	530
40°	558	548	522	498	491
42.5°	529	517	484	459	447
45°	498	483	445	417	406
47.5°	467	448	407	377	365
50°	434	411	367	335	323
52.5°	400	375	330	297	288
55°	360	339	291	263	255
57.5°	324	301	259	235	229
60°	292	264	227	209	204
62.5°	255	230	201	187	182
65°	219	199	178	167	163
67.5°	188	171	157	148	146
70°	154	145	137	130	130
72.5°	125	122	117	113	110
75°	96	100	98	94	94
77.5°	73	79	80	78	79
80°	51	60	62	61	62
82.5°	32	43	45	45	46
85°	19	27	28	28	29
87.5°	8	13	14	14	14
90°	0	0	0	0	0

(END OF REPORT)