

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: P688896

Luminaire Tested: SQ4R-PR1-075D-92765-1-UNV-STD-W-4\_5000K

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P688896  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/22/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4R-PR1-075D-92765-1-UNV-STD-W-4\_5000K  
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
750 LUMENS PER FOOT  
Light Source: 5000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2872.7 lumens  
Efficiency: N/A  
Efficacy: 87.3 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.23 / 1.34  
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')  
CIE Type: Direct

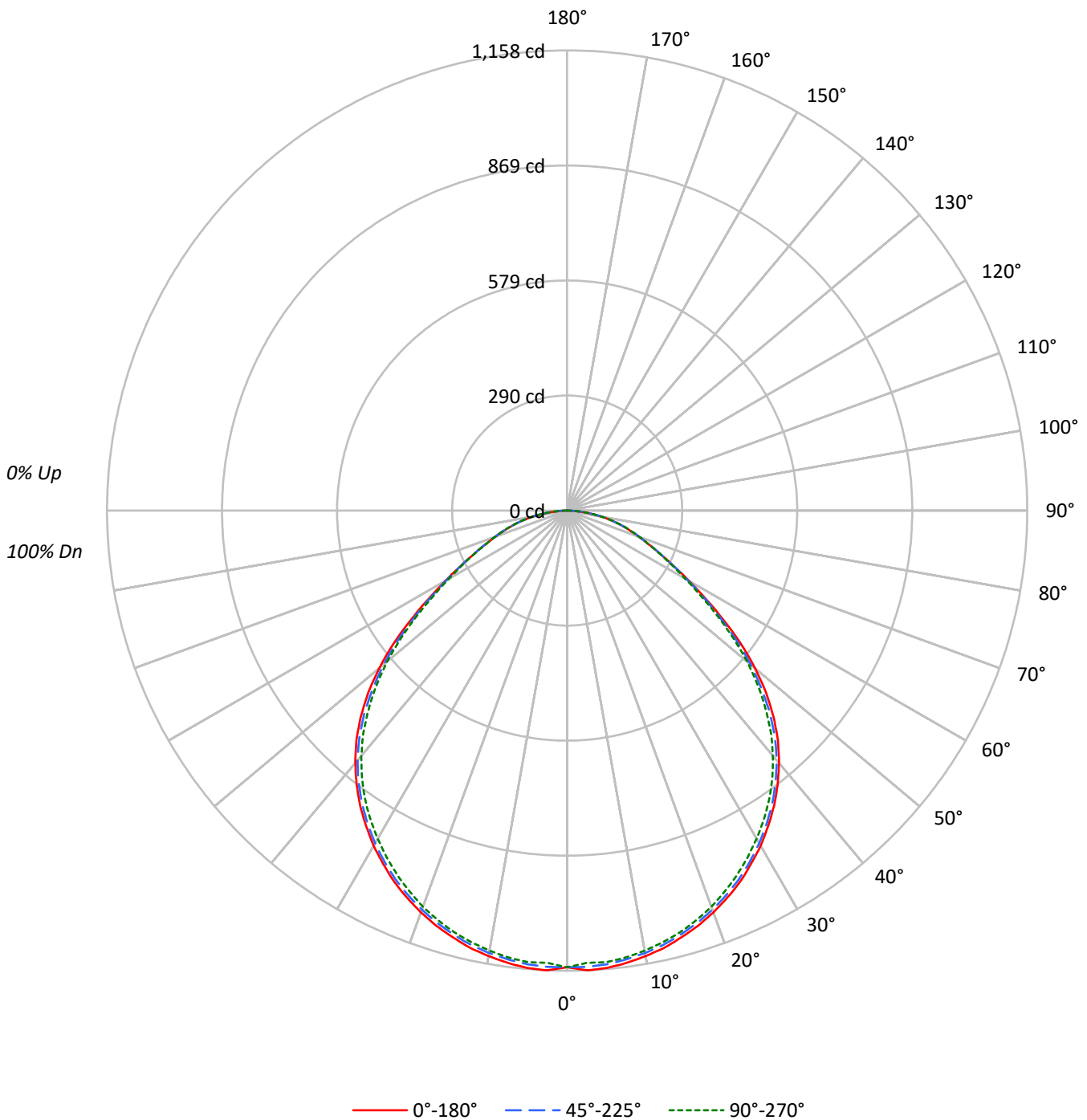
Input Watts (W): 32.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85				85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72				72
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62				62
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54				54
5	78	66	57	51	76	65	57	50	63	55	50	61	54	49	59	53	49	47				47
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41				41
7	67	54	46	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37				37
8	63	49	41	36	61	49	41	35	47	40	35	46	40	35	45	39	35	33				33
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30				30
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29	27				27

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

	0°	45°	90°
0°	11063	11063	11063
5°	11163	11076	11019
10°	11127	11050	10992
15°	11078	11010	10950
20°	11023	10951	10870
25°	10944	10871	10745
30°	10827	10750	10595
35°	10667	10574	10422
40°	10424	10312	10126
45°	9999	9823	9622
50°	9250	9028	8850
55°	8073	7891	7724
60°	6803	6747	6612
65°	5884	5907	5861
70°	5405	5433	5433
75°	5193	5193	5226
80°	4884	4940	4884
85°	3932	4374	4374

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 9999 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	108.7	3.8
10°-20°	311.1	10.8
20°-30°	469.2	16.3
30°-40°	559.1	19.5
40°-50°	551.6	19.2
50°-60°	420.8	14.6
60°-70°	259.7	9.0
70°-80°	148.0	5.2
80°-90°	44.6	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°	889.0	30.9
0°-40°	1448.1	50.4
0°-60°	2420.5	84.3
0°-90°	2872.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2872.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1149	1149	1149	1149	1149	
5°	1155	1142	1146	1142	1140	110
15°	1112	1100	1105	1101	1099	314
25°	1030	1018	1023	1012	1012	474
35°	908	897	900	888	887	567
45°	734	724	722	709	707	563
55°	481	473	470	462	460	431
65°	258	256	259	257	257	261
75°	140	140	140	140	140	147
85°	36	38	40	40	40	42
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1149.1	1149.1	1149.1	1149.1	1149.1
2.5°	1158.0	1145.2	1149.1	1146.1	1139.2
5°	1155.1	1142.2	1146.1	1142.2	1140.2
7.5°	1148.1	1135.3	1139.2	1135.3	1134.3
10°	1138.2	1126.4	1130.3	1126.4	1124.4
12.5°	1127.3	1114.5	1119.4	1114.5	1112.5
15°	1111.5	1099.6	1104.6	1100.6	1098.6
17.5°	1095.7	1082.8	1087.8	1083.8	1080.8
20°	1075.9	1064.0	1068.9	1062.0	1061.0
22.5°	1054.1	1042.2	1047.2	1037.3	1037.3
25°	1030.3	1017.5	1023.4	1012.5	1011.5
27.5°	1002.6	990.8	995.7	984.8	983.8
30°	973.9	962.1	967.0	955.1	953.1
32.5°	941.3	930.4	934.3	922.5	921.5
35°	907.6	896.7	899.7	887.8	886.8
37.5°	870.0	860.1	862.1	849.2	848.2
40°	829.4	819.5	820.5	806.7	805.7
42.5°	784.9	775.0	774.0	760.1	759.1
45°	734.4	724.5	721.5	708.7	706.7
47.5°	679.0	669.1	663.1	652.3	651.3
50°	617.6	607.7	602.8	593.9	590.9
52.5°	551.3	541.4	537.4	529.5	526.6
55°	481.0	473.1	470.1	462.2	460.2
57.5°	413.7	407.8	406.8	398.9	397.9
60°	353.3	350.4	350.4	343.4	343.4
62.5°	301.9	299.9	301.9	297.9	296.9
65°	258.3	256.3	259.3	257.3	257.3
67.5°	221.7	221.7	223.7	222.7	222.7
70°	192.0	192.0	193.0	193.0	193.0
72.5°	165.3	164.3	167.3	167.3	166.3
75°	139.6	139.6	139.6	140.5	140.5
77.5°	113.8	113.8	114.8	114.8	113.8
80°	88.1	89.1	89.1	88.1	88.1
82.5°	62.4	63.3	63.3	63.3	62.4
85°	35.6	37.6	39.6	39.6	39.6
87.5°	12.9	16.8	19.8	19.8	18.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)