

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: P688901

Luminaire Tested: SQ4R-PR1-075D-93050-1-UNV-STD-W-4\_4000K

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P688901  
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-93050-1-UNV-STD-W-4\_4000K  
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE RIPPLE 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: 2877.6 lumens  
Efficiency: N/A  
Efficacy: 87.2 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

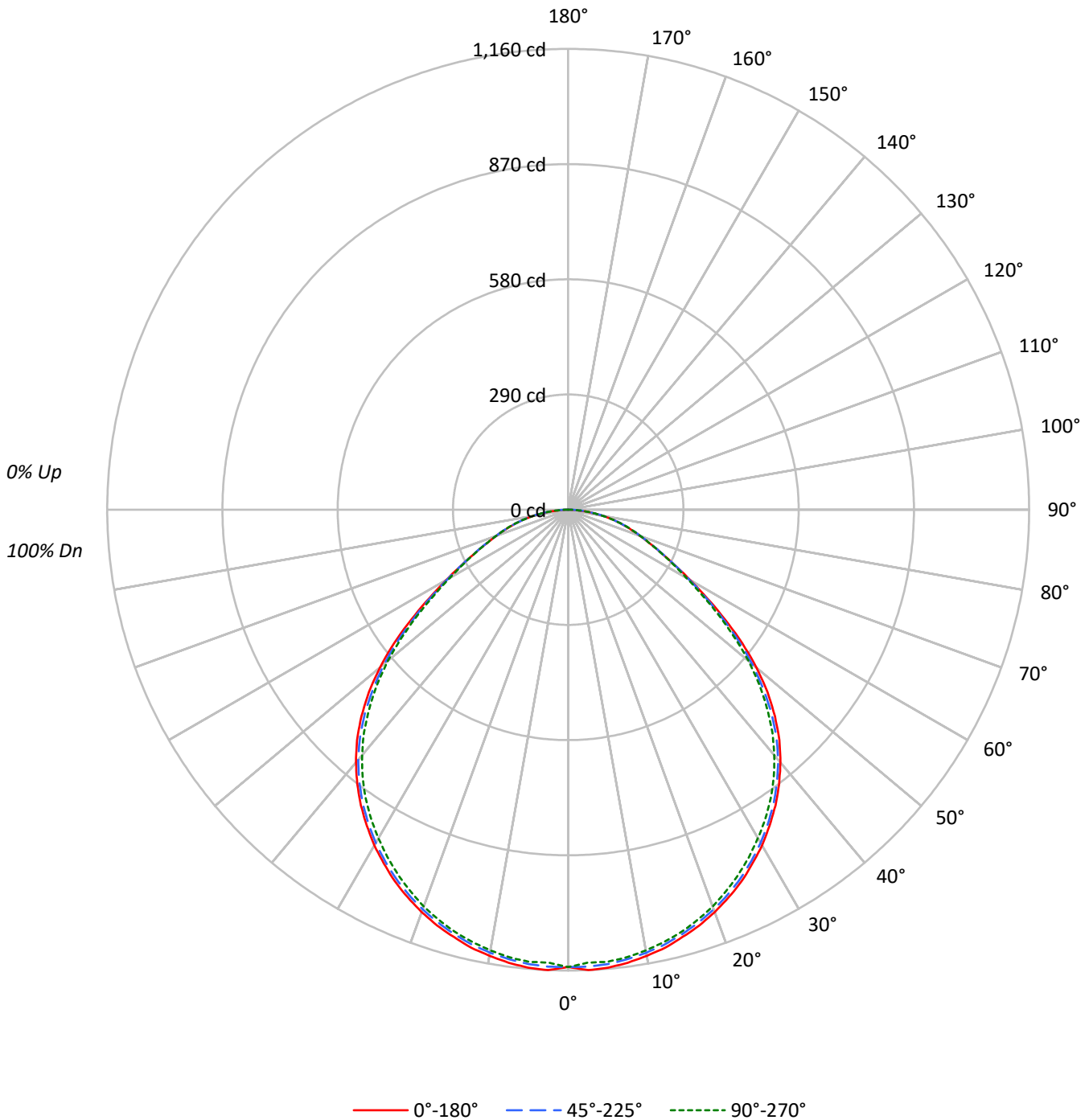
Input Watts (W): 33  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	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	
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75				72	
3	92	82	74	68	90	80	73	68	78	71	66	75	70	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	58	50	44	57	49	44	55	49	44	53	48	43				41	
7	67	54	46	40	65	53	45	39	52	44	39	50	44	39	49	43	39				37	
8	63	49	41	36	61	49	41	35	47	40	35	46	40	35	45	39	35				33	
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31				30	
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29				27	

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

	0°	45°	90°
0°	11082	11082	11082
5°	11181	11095	11037
10°	11145	11068	11011
15°	11097	11027	10969
20°	11041	10970	10889
25°	10964	10889	10763
30°	10845	10768	10613
35°	10684	10592	10440
40°	10441	10329	10142
45°	10015	9841	9638
50°	9267	9043	8865
55°	8087	7904	7738
60°	6814	6758	6624
65°	5896	5918	5873
70°	5413	5441	5441
75°	5200	5200	5237
80°	4890	4945	4890
85°	3943	4385	4385

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 10015 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	108.9	3.8
10°-20°	311.6	10.8
20°-30°	470.0	16.3
30°-40°	560.1	19.5
40°-50°	552.5	19.2
50°-60°	421.5	14.6
60°-70°	260.1	9.0
70°-80°	148.2	5.2
80°-90°	44.7	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°	890.5	30.9
0°-40°	1450.6	50.4
0°-60°	2424.5	84.3
0°-90°	2877.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2877.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1151	1151	1151	1151	1151	
5°	1157	1144	1148	1144	1142	110
15°	1113	1102	1106	1102	1100	314
25°	1032	1019	1025	1014	1013	475
35°	909	898	901	889	888	568
45°	736	726	723	710	708	564
55°	482	474	471	463	461	432
65°	259	257	260	258	258	261
75°	140	140	140	141	141	148
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°	1151.1	1151.1	1151.1	1151.1	1151.1
2.5°	1160.0	1147.1	1151.1	1148.1	1141.1
5°	1157.0	1144.1	1148.1	1144.1	1142.1
7.5°	1150.1	1137.2	1141.1	1137.2	1136.2
10°	1140.1	1128.2	1132.2	1128.2	1126.3
12.5°	1129.2	1116.4	1121.3	1116.4	1114.4
15°	1113.4	1101.5	1106.4	1102.5	1100.5
17.5°	1097.5	1084.6	1089.6	1085.6	1082.6
20°	1077.7	1065.8	1070.7	1063.8	1062.8
22.5°	1055.9	1044.0	1048.9	1039.0	1039.0
25°	1032.1	1019.2	1025.1	1014.2	1013.2
27.5°	1004.3	992.4	997.4	986.5	985.5
30°	975.6	963.7	968.6	956.7	954.7
32.5°	942.9	931.9	935.9	924.0	923.0
35°	909.1	898.2	901.2	889.3	888.3
37.5°	871.5	861.6	863.5	850.6	849.7
40°	830.8	820.9	821.9	808.0	807.0
42.5°	786.2	776.3	775.3	761.4	760.4
45°	735.6	725.7	722.8	709.9	707.9
47.5°	680.1	670.2	664.3	653.4	652.4
50°	618.7	608.7	603.8	594.9	591.9
52.5°	552.2	542.3	538.3	530.4	527.4
55°	481.8	473.9	470.9	463.0	461.0
57.5°	414.4	408.5	407.5	399.5	398.6
60°	353.9	351.0	351.0	344.0	344.0
62.5°	302.4	300.4	302.4	298.4	297.4
65°	258.8	256.8	259.8	257.8	257.8
67.5°	222.1	222.1	224.1	223.1	223.1
70°	192.3	192.3	193.3	193.3	193.3
72.5°	165.6	164.6	167.6	167.6	166.6
75°	139.8	139.8	139.8	140.8	140.8
77.5°	114.0	114.0	115.0	115.0	114.0
80°	88.2	89.2	89.2	88.2	88.2
82.5°	62.5	63.5	63.5	63.5	62.5
85°	35.7	37.7	39.7	39.7	39.7
87.5°	12.9	16.9	19.8	19.8	18.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)