

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: P688835

Luminaire Tested: SQ4R-PP3-100D-93050-1-UNV-STD-W-4\_3500K

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P688835  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-172-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/22/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4R-PP3-100D-93050-1-UNV-STD-W-4\_3500K  
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
1000 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3955.2 lumens  
Efficiency: N/A  
Efficacy: 85.1 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')  
CIE Type: Direct

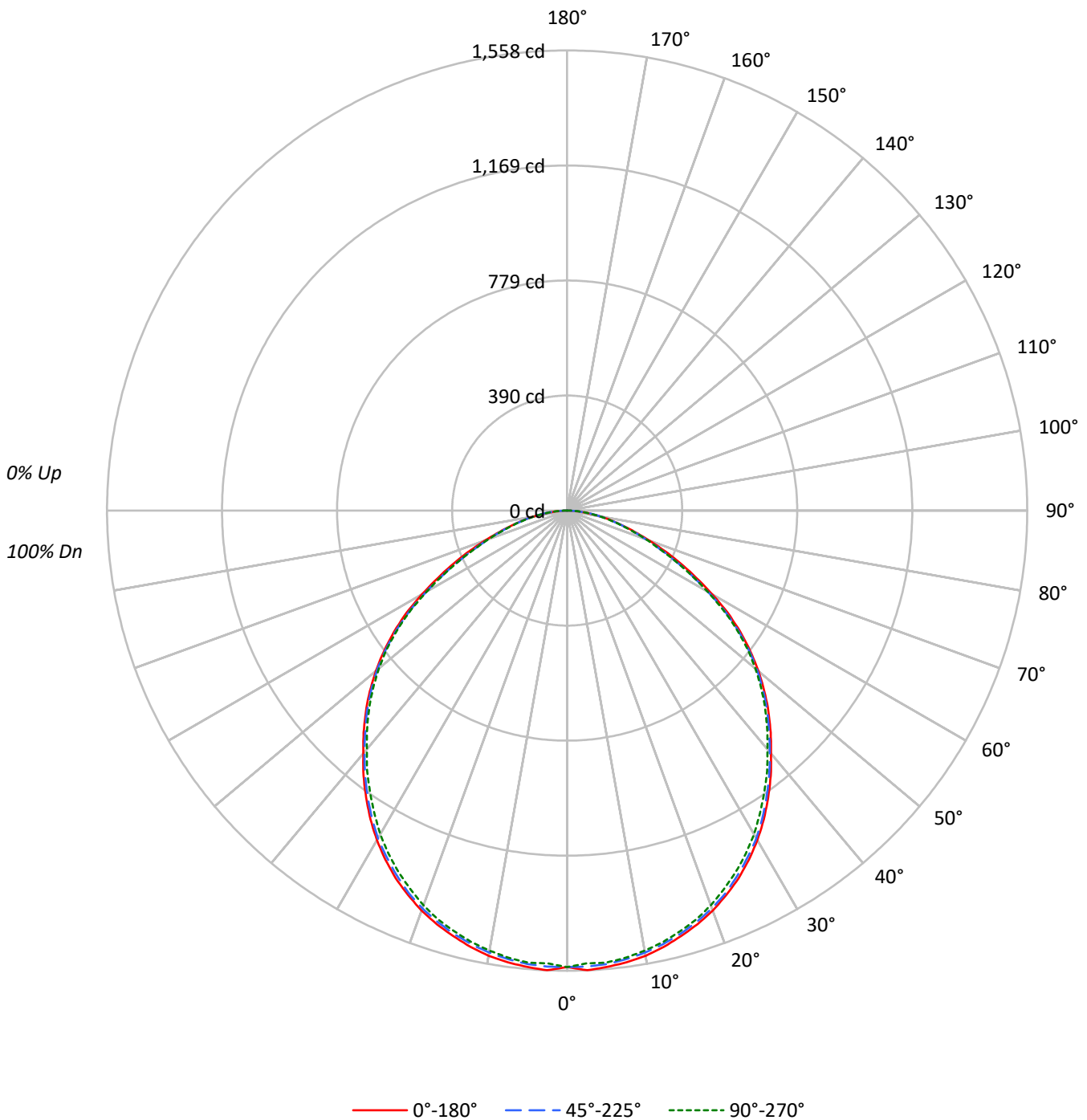
Input Watts (W): 46.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87				85	
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74				72	
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63				61	
4	84	72	64	57	82	71	63	57	69	62	56	66	60	56	64	59	55				53	
5	77	65	56	50	75	64	56	50	62	55	49	60	53	48	58	52	48				46	
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42				40	
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38				36	
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34				32	
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31				29	
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28				26	

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

	0°	45°	90°
0°	14878	14878	14878
5°	14987	14895	14843
10°	14962	14855	14790
15°	14863	14782	14700
20°	14764	14681	14570
25°	14589	14488	14344
30°	14318	14244	14063
35°	13945	13848	13673
40°	13498	13413	13260
45°	13129	13038	12908
50°	12657	12577	12455
55°	12003	11843	11753
60°	10927	10613	10561
65°	9627	9226	9194
70°	8312	7969	7969
75°	7153	7053	6952
80°	6309	6381	6232
85°	4938	5391	5391

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 13129 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	146.2	3.7
10°-20°	417.5	10.6
20°-30°	625.3	15.8
30°-40°	733.4	18.5
40°-50°	735.7	18.6
50°-60°	628.2	15.9
60°-70°	408.3	10.3
70°-80°	204.5	5.2
80°-90°	56.1	1.4
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°	1189.0	30.1
0°-40°	1922.5	48.6
0°-60°	3286.3	83.1
0°-90°	3955.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3955.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1545	1545	1545	1545	1545	
5°	1551	1536	1541	1536	1536	147
15°	1491	1476	1483	1478	1475	421
25°	1373	1357	1364	1352	1350	632
35°	1186	1174	1178	1165	1163	742
45°	964	958	958	948	948	743
55°	715	712	706	702	700	636
65°	423	414	405	402	404	421
75°	192	192	190	188	187	208
85°	45	49	49	49	49	53
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1545.4	1545.4	1545.4	1545.4	1545.4
2.5°	1557.6	1541.3	1545.4	1542.7	1534.5
5°	1550.8	1535.9	1541.3	1535.9	1535.9
7.5°	1542.7	1526.4	1531.8	1526.4	1526.4
10°	1530.5	1514.2	1519.6	1514.2	1512.9
12.5°	1512.9	1496.6	1503.4	1496.6	1496.6
15°	1491.2	1476.3	1483.1	1477.6	1474.9
17.5°	1468.2	1451.9	1460.0	1453.3	1451.9
20°	1441.1	1424.8	1433.0	1422.1	1422.1
22.5°	1408.6	1392.3	1401.8	1386.9	1386.9
25°	1373.4	1357.1	1363.9	1351.7	1350.3
27.5°	1332.7	1316.5	1323.2	1309.7	1309.7
30°	1288.0	1273.1	1281.3	1266.4	1265.0
32.5°	1239.3	1225.7	1231.1	1216.2	1214.9
35°	1186.5	1174.3	1178.3	1164.8	1163.4
37.5°	1132.3	1118.7	1124.1	1112.0	1112.0
40°	1074.0	1065.9	1067.3	1057.8	1055.1
42.5°	1019.9	1010.4	1011.7	1002.3	1002.3
45°	964.3	957.6	957.6	948.1	948.1
47.5°	906.1	900.7	899.3	891.2	891.2
50°	845.1	841.1	839.7	833.0	831.6
52.5°	781.5	780.1	774.7	769.3	769.3
55°	715.1	712.4	705.6	701.6	700.2
57.5°	644.7	639.3	632.5	625.7	627.1
60°	567.5	562.1	551.2	548.5	548.5
62.5°	493.0	486.2	475.4	471.3	474.0
65°	422.6	414.4	405.0	402.3	403.6
67.5°	357.6	349.4	338.6	338.6	337.2
70°	295.3	291.2	283.1	283.1	283.1
72.5°	239.7	238.4	233.0	233.0	231.6
75°	192.3	192.3	189.6	188.3	186.9
77.5°	151.7	151.7	150.3	149.0	146.3
80°	113.8	116.5	115.1	113.8	112.4
82.5°	78.6	81.3	81.3	78.6	78.6
85°	44.7	48.8	48.8	48.8	48.8
87.5°	14.9	20.3	21.7	21.7	23.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)