

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: P688982

Luminaire Tested: SQ4R-PW1-100D-92765-1-UNV-STD-W-4\_2700K

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P688982  
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-PW1-100D-92765-1-UNV-STD-W-4\_2700K  
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
1000 LUMENS PER FOOT  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3485.5 lumens  
Efficiency: N/A  
Efficacy: 75.9 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

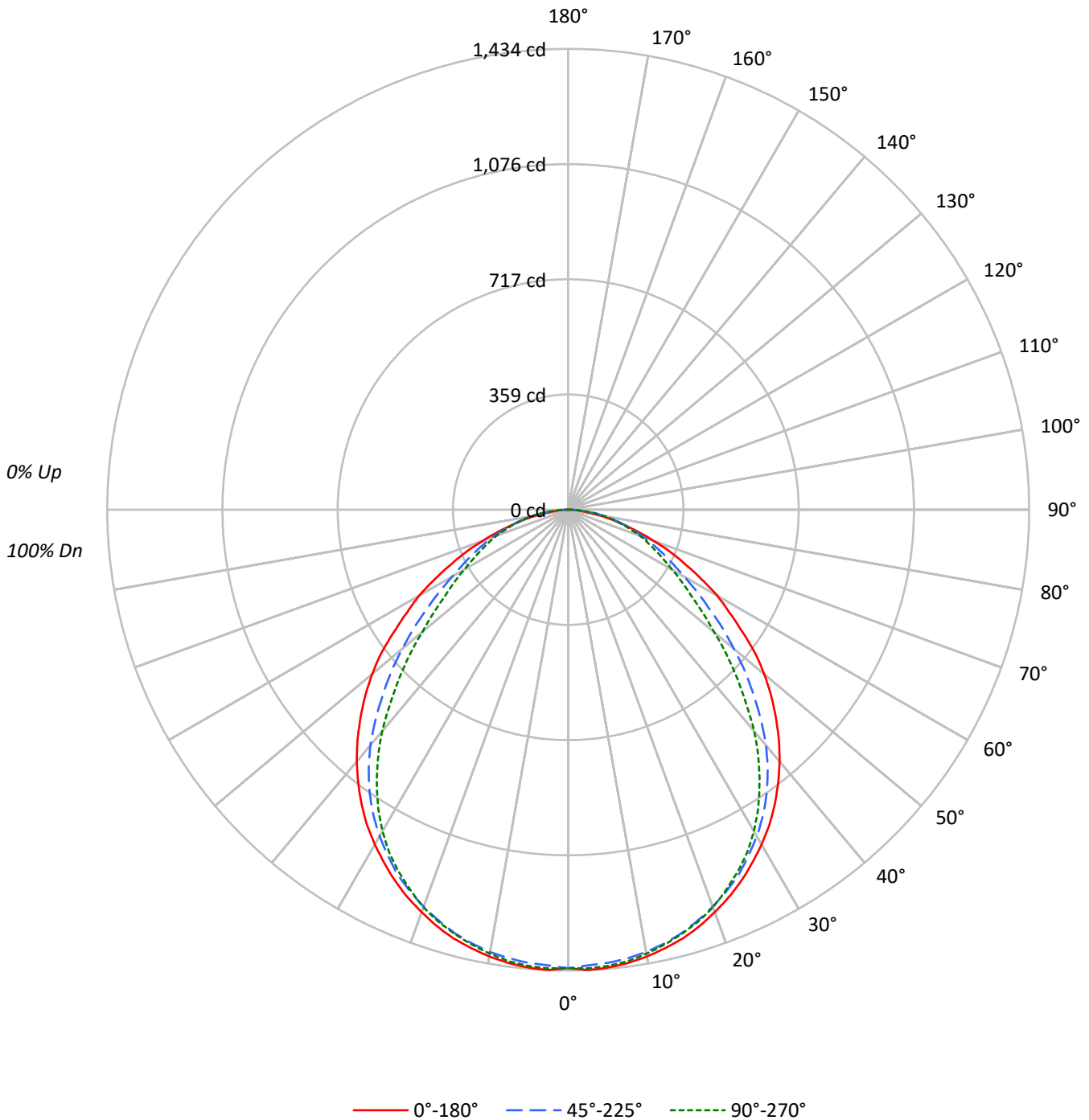
Input Watts (W): 45.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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°	13733	13733	13733
5°	13822	13680	13768
10°	13802	13659	13713
15°	13761	13597	13615
20°	13657	13469	13488
25°	13536	13322	13225
30°	13371	13045	12841
35°	13167	12650	12197
40°	12858	12028	11315
45°	12432	11109	10135
50°	11919	10078	8870
55°	11080	8956	7849
60°	10309	8014	7201
65°	9146	7435	6809
70°	7949	7071	6711
75°	6547	6684	6413
80°	5184	6304	6304
85°	3844	5667	5877

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 12432 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	135.3	3.9
10°-20°	386.6	11.1
20°-30°	579.0	16.6
30°-40°	672.8	19.3
40°-50°	634.7	18.2
50°-60°	495.2	14.2
60°-70°	336.2	9.6
70°-80°	189.3	5.4
80°-90°	56.2	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°	1101.0	31.6
0°-40°	1773.7	50.9
0°-60°	2903.7	83.3
0°-90°	3485.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3485.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1426	1426	1426	1426	1426	
5°	1430	1426	1416	1426	1425	136
15°	1381	1375	1364	1372	1366	389
25°	1274	1269	1254	1250	1245	587
35°	1120	1109	1076	1052	1038	700
45°	913	886	816	765	744	704
55°	660	622	534	482	468	593
65°	402	365	326	306	299	401
75°	176	183	180	172	172	192
85°	35	50	51	51	53	42
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1426.5	1426.5	1426.5	1426.5	1426.5
2.5°	1433.8	1430.2	1419.2	1430.2	1428.3
5°	1430.2	1426.5	1415.5	1426.5	1424.7
7.5°	1422.8	1421.0	1408.2	1419.2	1417.3
10°	1411.8	1410.0	1397.2	1406.3	1402.7
12.5°	1397.2	1395.3	1382.5	1389.8	1386.2
15°	1380.7	1375.2	1364.2	1371.5	1366.0
17.5°	1358.7	1353.2	1340.3	1345.8	1344.0
20°	1333.0	1327.5	1314.7	1320.2	1316.5
22.5°	1305.5	1300.0	1285.3	1287.2	1281.7
25°	1274.3	1268.8	1254.1	1250.5	1245.0
27.5°	1239.5	1235.8	1213.8	1210.1	1204.6
30°	1202.8	1197.3	1173.5	1166.1	1155.1
32.5°	1164.3	1153.3	1127.6	1113.0	1100.1
35°	1120.3	1109.3	1076.3	1052.5	1037.8
37.5°	1072.6	1056.1	1019.5	986.5	971.8
40°	1023.1	1004.8	957.1	913.1	900.3
42.5°	969.9	947.9	887.4	841.6	819.6
45°	913.1	885.6	815.9	764.6	744.4
47.5°	856.3	821.4	746.3	691.2	669.2
50°	795.8	753.6	672.9	614.2	592.2
52.5°	733.4	687.6	605.1	544.6	528.1
55°	660.1	621.6	533.6	482.2	467.6
57.5°	594.1	551.9	474.9	430.9	419.9
60°	535.4	484.1	416.2	383.2	374.0
62.5°	467.6	421.7	368.5	342.9	333.7
65°	401.5	364.9	326.4	306.2	298.9
67.5°	344.7	313.5	287.9	271.4	267.7
70°	282.4	265.9	251.2	238.4	238.4
72.5°	229.2	223.7	214.5	207.2	201.7
75°	176.0	183.4	179.7	172.4	172.4
77.5°	133.8	144.9	146.7	143.0	144.9
80°	93.5	110.0	113.7	111.8	113.7
82.5°	58.7	78.8	82.5	82.5	84.3
85°	34.8	49.5	51.3	51.3	53.2
87.5°	14.7	23.8	25.7	25.7	25.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)