

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: P688741

Luminaire Tested: SQ4R-PH1-075D-92765-1-UNV-STD-W-4\_5700K

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P688741  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2203-586-36)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/22/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4R-PH1-075D-92765-1-UNV-STD-W-4\_5700K  
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE HEX CONTINUOUS LENS.  
750 LUMENS PER FOOT  
Light Source: 5700K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3039.3 lumens  
Efficiency: N/A  
Efficacy: 92.4 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.22 / 1.28  
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')  
CIE Type: Direct

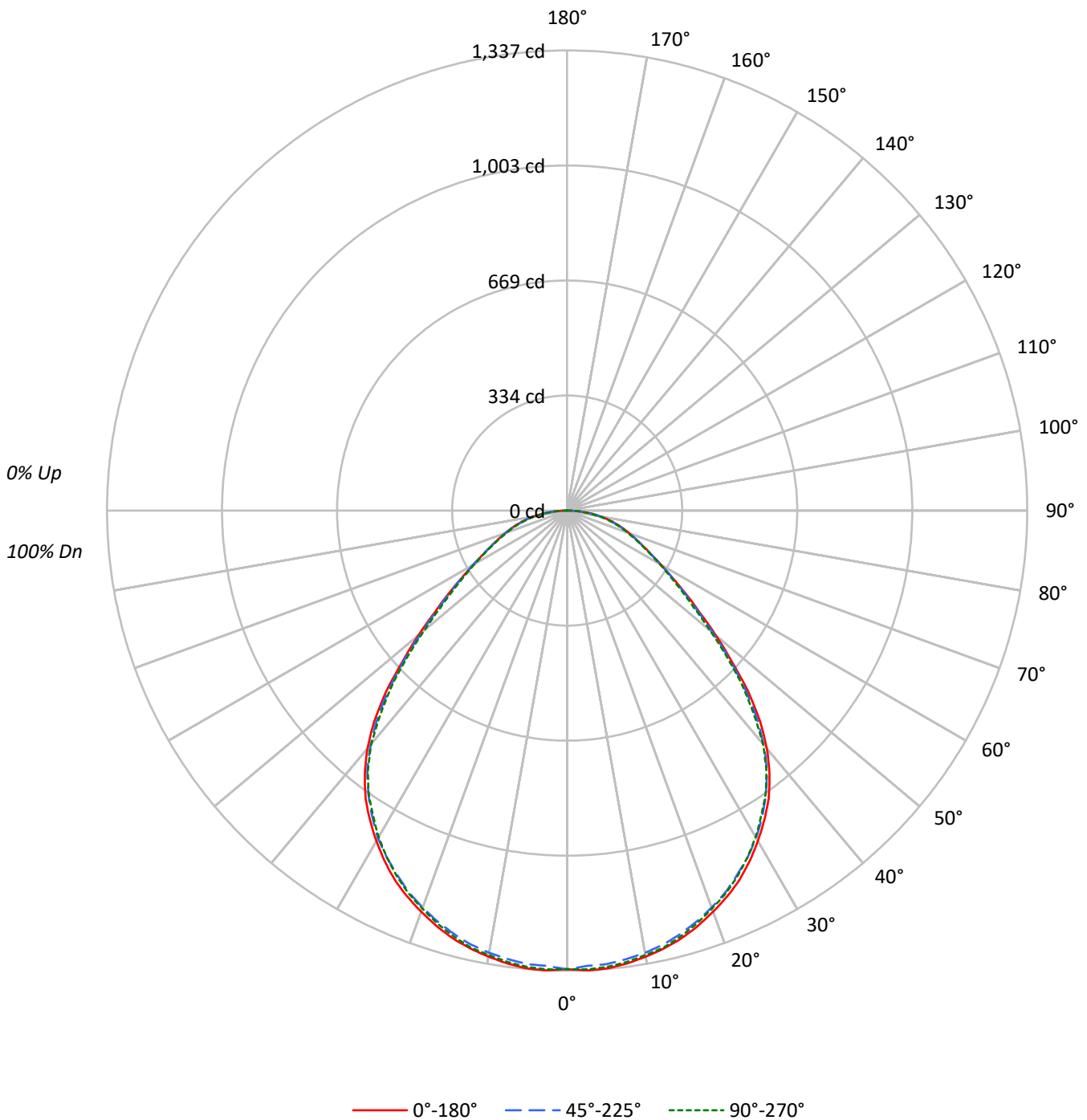
Input Watts (W): 32.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	64
4	86	75	66	60	83	73	66	60	71	64	59	69	63	58	66	62	57	55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	74	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39
8	64	51	43	37	62	50	43	37	49	42	37	48	42	37	47	41	37	35
9	60	47	39	34	58	47	39	34	45	39	34	44	38	34	43	38	33	32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	31	29

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

	0°	45°	90°
0°	12827	12827	12827
5°	12908	12782	12861
10°	12865	12753	12816
15°	12821	12690	12756
20°	12707	12572	12606
25°	12581	12406	12441
30°	12325	12215	12178
35°	12006	11832	11813
40°	11350	11164	11122
45°	10123	9921	9810
50°	8450	8278	8106
55°	7041	6957	6793
60°	6050	6081	5955
65°	5547	5508	5433
70°	5371	5326	5233
75°	5446	5323	5200
80°	5472	5383	5200
85°	5269	5269	4904

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 10123 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	126.4	4.2
10°-20°	361.0	11.9
20°-30°	540.8	17.8
30°-40°	629.3	20.7
40°-50°	559.7	18.4
50°-60°	375.8	12.4
60°-70°	242.9	8.0
70°-80°	151.4	5.0
80°-90°	51.9	1.7
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°	1028.2	33.8
0°-40°	1657.6	54.5
0°-60°	2593.1	85.3
0°-90°	3039.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3039.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1332	1332	1332	1332	1332	
5°	1336	1332	1323	1332	1331	127
15°	1286	1283	1273	1281	1280	363
25°	1184	1179	1168	1174	1171	545
35°	1022	1017	1007	1007	1005	635
45°	744	740	729	719	720	568
55°	420	420	414	408	405	380
65°	244	245	242	240	238	244
75°	146	145	143	143	140	154
85°	48	49	48	46	44	53
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1332.4	1332.4	1332.4	1332.4	1332.4
2.5°	1337.4	1334.1	1324.2	1335.7	1334.1
5°	1335.7	1332.4	1322.6	1332.4	1330.8
7.5°	1327.5	1325.8	1314.3	1325.8	1322.6
10°	1316.0	1316.0	1304.5	1314.3	1311.0
12.5°	1302.8	1301.2	1291.3	1301.2	1299.5
15°	1286.4	1283.1	1273.2	1281.4	1279.8
17.5°	1265.0	1263.3	1251.8	1260.0	1256.8
20°	1240.3	1237.0	1227.1	1233.7	1230.4
22.5°	1214.0	1210.7	1200.8	1205.8	1204.1
25°	1184.4	1179.4	1167.9	1174.5	1171.2
27.5°	1148.2	1146.5	1135.0	1138.3	1135.0
30°	1108.7	1107.1	1098.8	1098.8	1095.5
32.5°	1065.9	1067.6	1054.4	1056.1	1049.5
35°	1021.5	1016.6	1006.7	1006.7	1005.1
37.5°	965.6	962.3	954.1	952.4	950.8
40°	903.1	899.8	888.3	885.0	885.0
42.5°	829.1	825.8	814.3	809.3	802.7
45°	743.5	740.2	728.7	718.8	720.5
47.5°	648.1	651.4	639.9	631.7	630.0
50°	564.2	562.6	552.7	547.8	541.2
52.5°	483.6	485.3	477.0	473.7	465.5
55°	419.5	419.5	414.5	408.0	404.7
57.5°	361.9	365.2	360.2	357.0	353.7
60°	314.2	315.8	315.8	309.3	309.3
62.5°	274.7	276.4	274.7	271.4	271.4
65°	243.5	245.1	241.8	240.2	238.5
67.5°	215.5	217.1	215.5	213.8	210.6
70°	190.8	190.8	189.2	189.2	185.9
72.5°	169.4	167.8	166.1	166.1	164.5
75°	146.4	144.8	143.1	143.1	139.8
77.5°	123.4	121.7	121.7	118.4	116.8
80°	98.7	98.7	97.1	95.4	93.8
82.5°	75.7	74.0	72.4	70.7	69.1
85°	47.7	49.3	47.7	46.1	44.4
87.5°	21.4	23.0	23.0	23.0	21.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)