

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: P688679

Luminaire Tested: SQ4R-PC3-100D-93050-1-UNV-STD-W-4\_3500K

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P688679  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/22/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4R-PC3-100D-93050-1-UNV-STD-W-4\_3500K  
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PYRAMID 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: 4040.3 lumens  
Efficiency: N/A  
Efficacy: 86.9 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')  
CIE Type: Direct

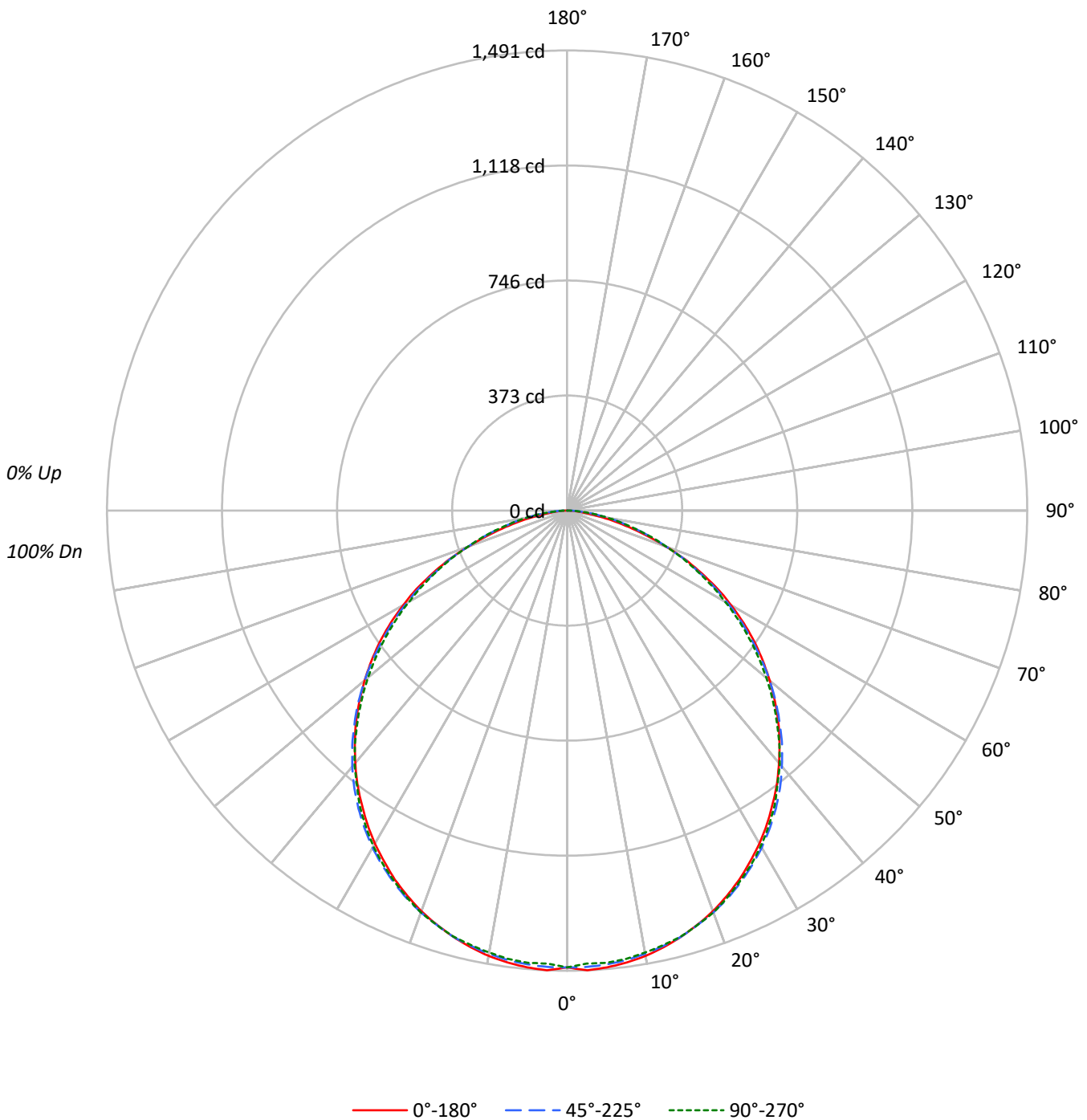
Input Watts (W): 46.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85				85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71				71
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60				60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51				51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44				44
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39				39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34				34
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31				31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28				28
10	54	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25				25

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

	0°	45°	90°
0°	14249	14249	14249
5°	14357	14264	14211
10°	14323	14255	14215
15°	14247	14247	14234
20°	14154	14196	14196
25°	14020	14122	14078
30°	13849	14017	13956
35°	13643	13852	13755
40°	13417	13607	13469
45°	13174	13267	13061
50°	12830	12830	12625
55°	12422	12261	12077
60°	11822	11584	11401
65°	10928	10709	10616
70°	9568	9644	9607
75°	7696	8514	8563
80°	5472	7219	7296
85°	3336	6053	6053

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 13267 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	140.1	3.5
10°-20°	402.2	10.0
20°-30°	609.1	15.1
30°-40°	730.3	18.1
40°-50°	744.6	18.4
50°-60°	649.9	16.1
60°-70°	465.3	11.5
70°-80°	239.0	5.9
80°-90°	59.8	1.5
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°	1151.4	28.5
0°-40°	1881.7	46.6
0°-60°	3276.2	81.1
0°-90°	4040.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4040.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1480	1480	1480	1480	1480	
5°	1486	1470	1476	1472	1470	141
15°	1429	1417	1429	1429	1428	403
25°	1320	1310	1329	1325	1325	608
35°	1161	1158	1179	1170	1170	726
45°	968	965	974	962	959	745
55°	740	730	730	720	720	660
65°	480	469	470	466	466	475
75°	207	216	229	230	230	223
85°	30	47	55	56	55	41
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1480.1	1480.1	1480.1	1480.1	1480.1
2.5°	1491.1	1474.7	1480.1	1476.0	1469.2
5°	1485.6	1470.5	1476.0	1471.9	1470.5
7.5°	1477.4	1462.3	1469.2	1466.4	1465.1
10°	1465.1	1450.0	1458.2	1455.5	1454.1
12.5°	1448.6	1434.9	1444.5	1441.8	1441.8
15°	1429.4	1417.1	1429.4	1429.4	1428.1
17.5°	1406.1	1395.2	1407.5	1408.9	1407.5
20°	1381.5	1369.1	1385.6	1384.2	1385.6
22.5°	1351.3	1341.7	1359.5	1355.4	1356.8
25°	1319.8	1310.2	1329.4	1325.3	1325.3
27.5°	1282.8	1275.9	1296.5	1292.4	1292.4
30°	1245.8	1238.9	1260.9	1255.4	1255.4
32.5°	1204.7	1200.6	1221.1	1214.3	1214.3
35°	1160.8	1158.1	1178.6	1170.4	1170.4
37.5°	1117.0	1114.2	1133.4	1123.8	1119.7
40°	1067.6	1066.2	1082.7	1071.7	1071.7
42.5°	1018.3	1016.9	1030.6	1016.9	1016.9
45°	967.6	964.8	974.4	962.1	959.3
47.5°	912.7	910.0	916.9	903.2	901.8
50°	856.6	853.8	856.6	844.2	842.9
52.5°	799.0	793.5	793.5	781.2	781.2
55°	740.1	730.5	730.5	719.5	719.5
57.5°	678.4	666.1	667.4	657.8	656.5
60°	614.0	600.3	601.6	593.4	592.1
62.5°	550.9	534.5	538.6	529.0	529.0
65°	479.7	468.7	470.1	466.0	466.0
67.5°	413.9	402.9	409.8	405.7	405.7
70°	339.9	333.0	342.6	342.6	341.3
72.5°	271.4	272.7	285.1	285.1	286.4
75°	206.9	216.5	228.9	230.2	230.2
77.5°	148.0	164.5	178.2	178.2	178.2
80°	98.7	117.9	130.2	132.9	131.6
82.5°	58.9	79.5	89.1	91.8	90.5
85°	30.2	46.6	54.8	56.2	54.8
87.5°	11.0	23.3	27.4	27.4	24.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)