

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: P688522

Luminaire Tested: SQ4R-PH1-125D-935-1-UNV-STD-W-4

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P688522  
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-PH1-125D-935-1-UNV-STD-W-4  
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE HEX CONTINUOUS LENS.  
1250 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3903.7 lumens  
Efficiency: N/A  
Efficacy: 78.9 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

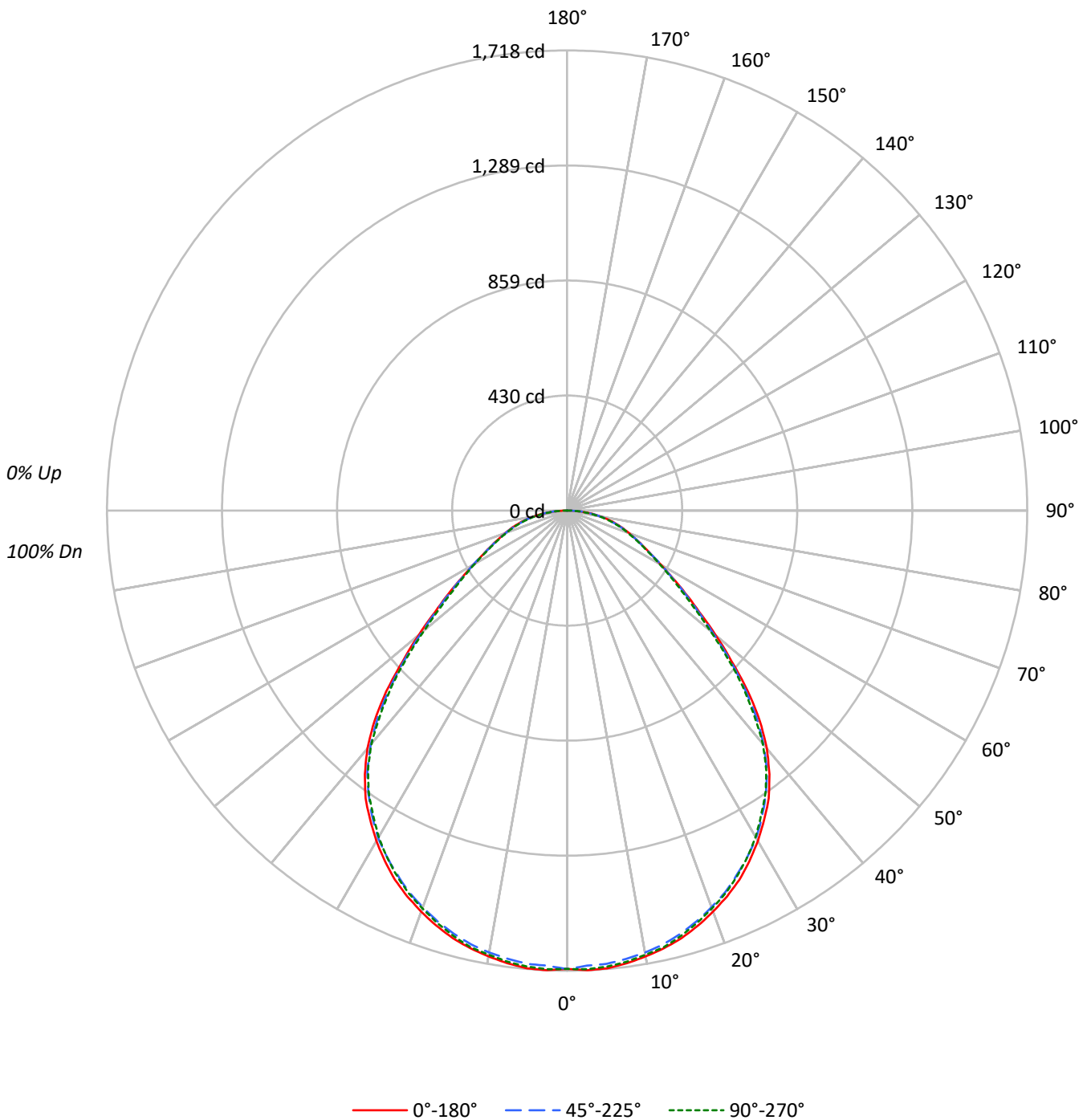
Input Watts (W): 49.5  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	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°	16475	16475	16475
5°	16579	16415	16518
10°	16523	16378	16462
15°	16467	16299	16383
20°	16321	16147	16190
25°	16159	15934	15980
30°	15830	15689	15642
35°	15420	15196	15172
40°	14577	14338	14286
45°	13002	12742	12599
50°	10854	10633	10411
55°	9042	8936	8723
60°	7769	7810	7648
65°	7123	7076	6978
70°	6899	6840	6719
75°	6993	6837	6681
80°	7030	6914	6675
85°	6771	6771	6296

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 13002 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	162.3	4.2
10°-20°	463.7	11.9
20°-30°	694.7	17.8
30°-40°	808.3	20.7
40°-50°	718.9	18.4
50°-60°	482.7	12.4
60°-70°	312.0	8.0
70°-80°	194.5	5.0
80°-90°	66.7	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°	1320.6	33.8
0°-40°	2128.9	54.5
0°-60°	3330.5	85.3
0°-90°	3903.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3903.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1711	1711	1711	1711	1711	
5°	1716	1711	1699	1711	1709	163
15°	1652	1648	1635	1646	1644	466
25°	1521	1515	1500	1508	1504	699
35°	1312	1306	1293	1293	1291	816
45°	955	951	936	923	925	730
55°	539	539	532	524	520	488
65°	313	315	311	308	306	313
75°	188	186	184	184	180	198
85°	61	63	61	59	57	68
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1711.3	1711.3	1711.3	1711.3	1711.3
2.5°	1717.7	1713.4	1700.8	1715.5	1713.4
5°	1715.5	1711.3	1698.6	1711.3	1709.2
7.5°	1705.0	1702.9	1688.1	1702.9	1698.6
10°	1690.2	1690.2	1675.4	1688.1	1683.9
12.5°	1673.3	1671.2	1658.5	1671.2	1669.1
15°	1652.2	1647.9	1635.3	1645.8	1643.7
17.5°	1624.7	1622.6	1607.8	1618.4	1614.1
20°	1593.0	1588.8	1576.1	1584.6	1580.3
22.5°	1559.2	1555.0	1542.3	1548.6	1546.5
25°	1521.2	1514.8	1500.0	1508.5	1504.3
27.5°	1474.7	1472.6	1457.8	1462.0	1457.8
30°	1424.0	1421.9	1411.3	1411.3	1407.1
32.5°	1369.1	1371.2	1354.3	1356.4	1347.9
35°	1312.0	1305.7	1293.0	1293.0	1290.9
37.5°	1240.2	1236.0	1225.4	1223.3	1221.2
40°	1159.9	1155.7	1140.9	1136.7	1136.7
42.5°	1064.8	1060.6	1045.8	1039.5	1031.0
45°	955.0	950.7	935.9	923.3	925.4
47.5°	832.4	836.6	821.9	811.3	809.2
50°	724.7	722.6	709.9	703.5	695.1
52.5°	621.1	623.3	612.7	608.5	597.9
55°	538.7	538.7	532.4	524.0	519.7
57.5°	464.8	469.0	462.7	458.5	454.2
60°	403.5	405.6	405.6	397.2	397.2
62.5°	352.8	354.9	352.8	348.6	348.6
65°	312.7	314.8	310.6	308.5	306.3
67.5°	276.8	278.9	276.8	274.7	270.4
70°	245.1	245.1	243.0	243.0	238.7
72.5°	217.6	215.5	213.4	213.4	211.3
75°	188.0	185.9	183.8	183.8	179.6
77.5°	158.5	156.3	156.3	152.1	150.0
80°	126.8	126.8	124.7	122.5	120.4
82.5°	97.2	95.1	93.0	90.8	88.7
85°	61.3	63.4	61.3	59.2	57.0
87.5°	27.5	29.6	29.6	29.6	27.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)