

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: P688630

Luminaire Tested: SQ4R-PW1-125D-935-1-UNV-STD-W-4

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P688630  
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-PW1-125D-935-1-UNV-STD-W-4  
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE WAVES 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: 4016.2 lumens  
Efficiency: N/A  
Efficacy: 81.1 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

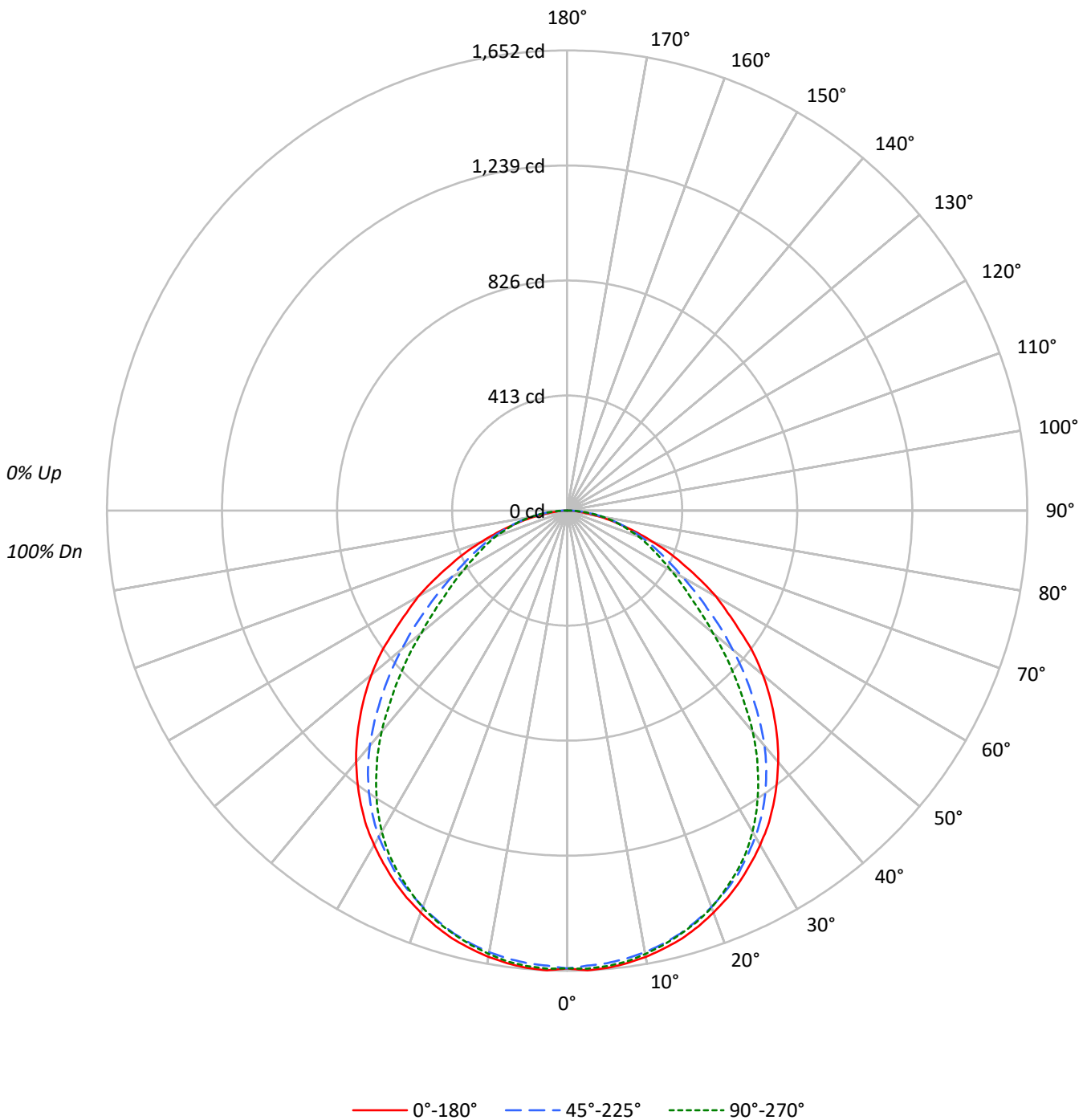
Input Watts (W): 49.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	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°	15824	15824	15824
5°	15925	15762	15865
10°	15903	15738	15800
15°	15856	15667	15688
20°	15737	15519	15541
25°	15598	15351	15238
30°	15408	15032	14796
35°	15172	14576	14054
40°	14816	13860	13038
45°	14324	12801	11679
50°	13733	11614	10221
55°	12766	10319	9042
60°	11878	9235	8299
65°	10540	8568	7846
70°	9160	8146	7732
75°	7544	7700	7387
80°	5971	7263	7263
85°	4430	6539	6771

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 14324 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	155.9	3.9
10°-20°	445.4	11.1
20°-30°	667.2	16.6
30°-40°	775.2	19.3
40°-50°	731.4	18.2
50°-60°	570.6	14.2
60°-70°	387.4	9.6
70°-80°	218.2	5.4
80°-90°	64.8	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°	1268.6	31.6
0°-40°	2043.8	50.9
0°-60°	3345.8	83.3
0°-90°	4016.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4016.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1644	1644	1644	1644	1644	
5°	1648	1644	1631	1644	1642	157
15°	1591	1585	1572	1580	1574	449
25°	1468	1462	1445	1441	1434	676
35°	1291	1278	1240	1213	1196	806
45°	1052	1020	940	881	858	811
55°	761	716	615	556	539	683
65°	463	420	376	353	344	462
75°	203	211	207	199	199	221
85°	40	57	59	59	61	49
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1643.7	1643.7	1643.7	1643.7	1643.7
2.5°	1652.2	1647.9	1635.3	1647.9	1645.8
5°	1647.9	1643.7	1631.0	1643.7	1641.6
7.5°	1639.5	1637.4	1622.6	1635.3	1633.1
10°	1626.8	1624.7	1609.9	1620.5	1616.2
12.5°	1609.9	1607.8	1593.0	1601.5	1597.2
15°	1590.9	1584.6	1571.9	1580.3	1574.0
17.5°	1565.5	1559.2	1544.4	1550.7	1548.6
20°	1536.0	1529.6	1514.8	1521.2	1516.9
22.5°	1504.3	1497.9	1481.0	1483.1	1476.8
25°	1468.4	1462.0	1445.1	1440.9	1434.5
27.5°	1428.2	1424.0	1398.6	1394.4	1388.1
30°	1386.0	1379.6	1352.2	1343.7	1331.0
32.5°	1341.6	1328.9	1299.3	1282.4	1267.6
35°	1290.9	1278.2	1240.2	1212.7	1195.8
37.5°	1236.0	1216.9	1174.7	1136.7	1119.8
40°	1178.9	1157.8	1102.8	1052.1	1037.4
42.5°	1117.6	1092.3	1022.6	969.7	944.4
45°	1052.1	1020.5	940.2	881.0	857.8
47.5°	986.6	946.5	859.9	796.5	771.1
50°	916.9	868.3	775.4	707.8	682.4
52.5°	845.1	792.3	697.2	627.5	608.5
55°	760.6	716.2	614.8	555.7	538.7
57.5°	684.5	635.9	547.2	496.5	483.8
60°	616.9	557.8	479.6	441.6	431.0
62.5°	538.7	485.9	424.7	395.1	384.5
65°	462.7	420.4	376.1	352.8	344.4
67.5°	397.2	361.3	331.7	312.7	308.5
70°	325.4	306.3	289.4	274.7	274.7
72.5°	264.1	257.8	247.2	238.7	232.4
75°	202.8	211.3	207.0	198.6	198.6
77.5°	154.2	166.9	169.0	164.8	166.9
80°	107.7	126.8	131.0	128.9	131.0
82.5°	67.6	90.8	95.1	95.1	97.2
85°	40.1	57.0	59.2	59.2	61.3
87.5°	16.9	27.5	29.6	29.6	29.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)