

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: P688926

Luminaire Tested: SQ4R-PR1-125D-93050-1-UNV-STD-W-4\_3500K

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P688926  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/22/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4R-PR1-125D-93050-1-UNV-STD-W-4\_3500K  
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE RIPPLE 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: 4684.3 lumens  
Efficiency: N/A  
Efficacy: 76.2 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.23 / 1.34  
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')  
CIE Type: Direct

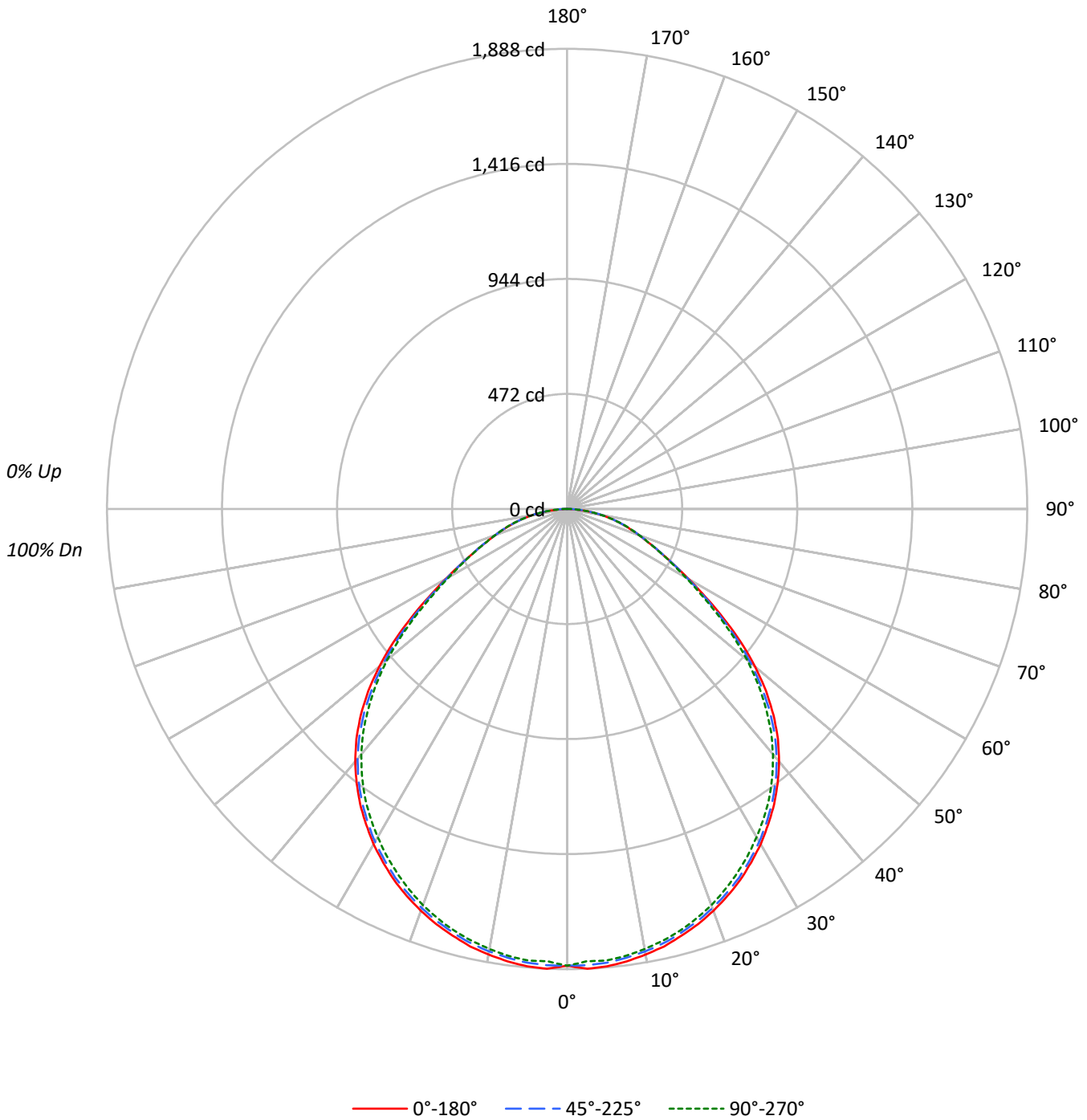
Input Watts (W): 61.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72
3	92	82	74	68	90	80	73	68	78	71	66	75	70	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	58	50	44	57	49	44	55	49	44	53	48	43	41
7	67	54	46	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37
8	63	49	41	36	61	49	41	35	47	40	35	46	40	35	45	39	35	33
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29	27

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

	0°	45°	90°
0°	18040	18040	18040
5°	18201	18061	17968
10°	18144	18018	17923
15°	18064	17951	17855
20°	17973	17857	17725
25°	17847	17727	17521
30°	17654	17529	17278
35°	17394	17241	16996
40°	16998	16814	16510
45°	16304	16018	15689
50°	15084	14721	14431
55°	13166	12867	12597
60°	11095	11000	10783
65°	9595	9631	9559
70°	8813	8858	8858
75°	8466	8466	8526
80°	7961	8056	7961
85°	6418	7136	7136

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 16304 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	177.3	3.8
10°-20°	507.2	10.8
20°-30°	765.0	16.3
30°-40°	911.7	19.5
40°-50°	899.4	19.2
50°-60°	686.1	14.6
60°-70°	423.4	9.0
70°-80°	241.3	5.2
80°-90°	72.8	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°	1449.6	30.9
0°-40°	2361.3	50.4
0°-60°	3946.8	84.3
0°-90°	4684.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4684.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1874	1874	1874	1874	1874	
5°	1883	1862	1869	1862	1859	179
15°	1812	1793	1801	1795	1791	512
25°	1680	1659	1669	1651	1649	774
35°	1480	1462	1467	1448	1446	924
45°	1198	1181	1176	1156	1152	919
55°	784	772	767	754	750	703
65°	421	418	423	420	420	425
75°	228	228	228	229	229	240
85°	58	61	65	65	65	69
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1873.8	1873.8	1873.8	1873.8	1873.8
2.5°	1888.3	1867.3	1873.8	1868.9	1857.6
5°	1883.4	1862.5	1868.9	1862.5	1859.2
7.5°	1872.1	1851.2	1857.6	1851.2	1849.5
10°	1856.0	1836.6	1843.1	1836.6	1833.4
12.5°	1838.3	1817.3	1825.3	1817.3	1814.0
15°	1812.4	1793.1	1801.1	1794.7	1791.4
17.5°	1786.6	1765.6	1773.7	1767.2	1762.4
20°	1754.3	1735.0	1743.0	1731.7	1730.1
22.5°	1718.8	1699.5	1707.5	1691.4	1691.4
25°	1680.1	1659.1	1668.8	1651.0	1649.4
27.5°	1634.9	1615.5	1623.6	1605.8	1604.2
30°	1588.1	1568.7	1576.8	1557.4	1554.2
32.5°	1534.8	1517.1	1523.5	1504.2	1502.6
35°	1480.0	1462.2	1467.0	1447.7	1446.1
37.5°	1418.6	1402.5	1405.7	1384.7	1383.1
40°	1352.5	1336.3	1337.9	1315.3	1313.7
42.5°	1279.8	1263.7	1262.1	1239.5	1237.9
45°	1197.5	1181.4	1176.5	1155.6	1152.3
47.5°	1107.1	1091.0	1081.3	1063.6	1062.0
50°	1007.1	990.9	982.9	968.3	963.5
52.5°	899.0	882.8	876.4	863.4	858.6
55°	784.4	771.5	766.6	753.7	750.5
57.5°	674.6	664.9	663.3	650.4	648.8
60°	576.2	571.3	571.3	560.0	560.0
62.5°	492.2	489.0	492.2	485.8	484.2
65°	421.2	418.0	422.8	419.6	419.6
67.5°	361.5	361.5	364.7	363.1	363.1
70°	313.1	313.1	314.7	314.7	314.7
72.5°	269.5	267.9	272.8	272.8	271.1
75°	227.6	227.6	227.6	229.2	229.2
77.5°	185.6	185.6	187.2	187.2	185.6
80°	143.6	145.3	145.3	143.6	143.6
82.5°	101.7	103.3	103.3	103.3	101.7
85°	58.1	61.3	64.6	64.6	64.6
87.5°	21.0	27.4	32.3	32.3	30.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)