

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: P688590

Luminaire Tested: SQ4R-PR1-125D-830-1-UNV-STD-W-4

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P688590  
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-830-1-UNV-STD-W-4  
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
1250 LUMENS PER FOOT  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4729.9 lumens  
Efficiency: N/A  
Efficacy: 95.6 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

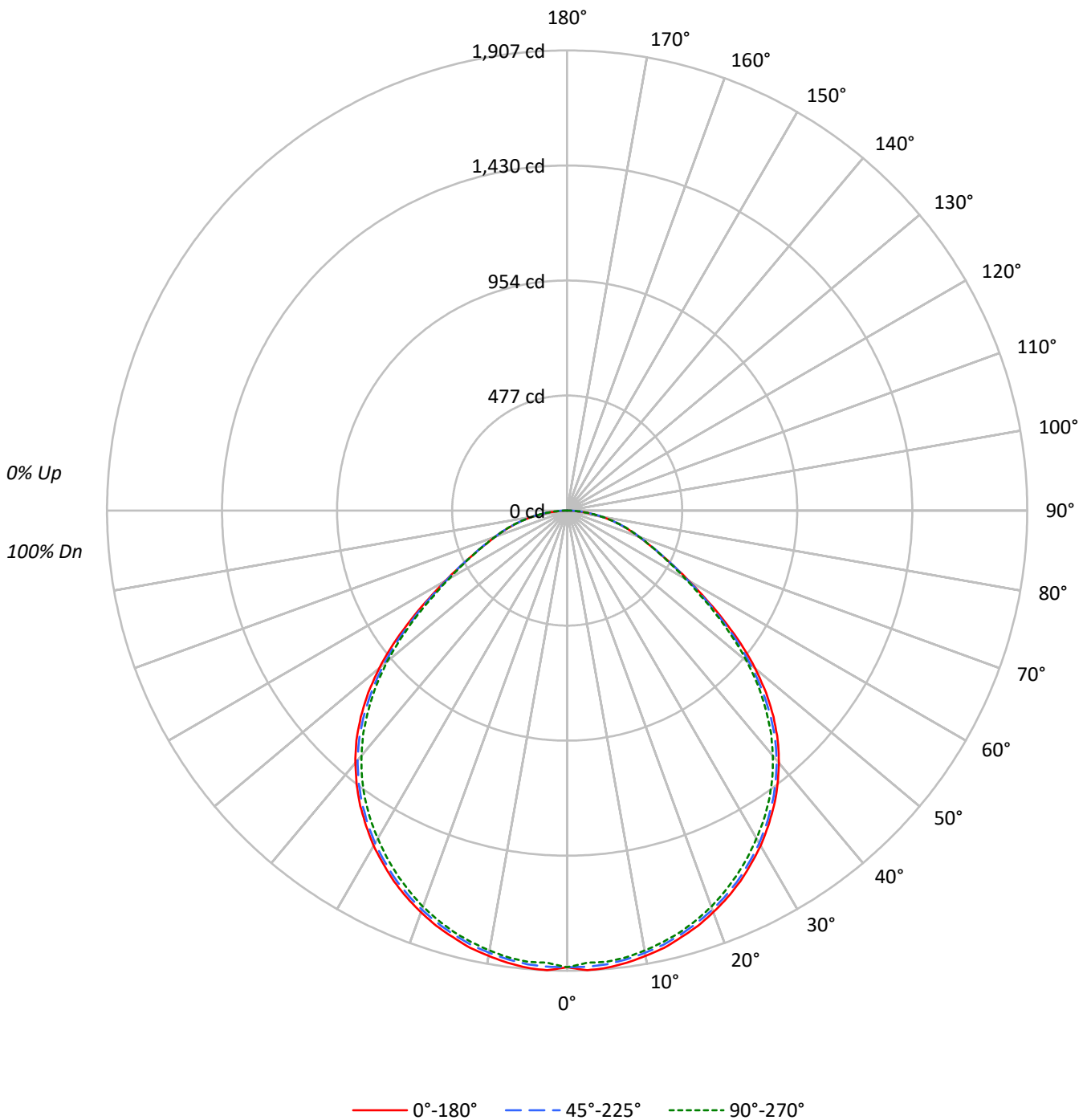
Input Watts (W): 49.5  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	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°	18215	18215	18215
5°	18379	18237	18142
10°	18321	18193	18098
15°	18241	18127	18029
20°	18148	18032	17898
25°	18020	17899	17692
30°	17827	17699	17445
35°	17563	17409	17160
40°	17162	16979	16671
45°	16463	16175	15843
50°	15231	14864	14572
55°	13294	12993	12719
60°	11202	11108	10889
65°	9688	9727	9652
70°	8898	8946	8946
75°	8548	8548	8607
80°	8039	8133	8039
85°	6484	7202	7202

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 16463 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	179.0	3.8
10°-20°	512.2	10.8
20°-30°	772.5	16.3
30°-40°	920.6	19.5
40°-50°	908.2	19.2
50°-60°	692.8	14.6
60°-70°	427.6	9.0
70°-80°	243.6	5.2
80°-90°	73.5	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°	1463.7	30.9
0°-40°	2384.3	50.4
0°-60°	3985.2	84.3
0°-90°	4729.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4729.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1892	1892	1892	1892	1892	
5°	1902	1881	1887	1881	1877	181
15°	1830	1810	1819	1812	1809	517
25°	1696	1675	1685	1667	1666	781
35°	1494	1476	1481	1462	1460	933
45°	1209	1193	1188	1167	1164	928
55°	792	779	774	761	758	710
65°	425	422	427	424	424	429
75°	230	230	230	231	231	243
85°	59	62	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°	1892.0	1892.0	1892.0	1892.0	1892.0
2.5°	1906.7	1885.5	1892.0	1887.1	1875.7
5°	1901.8	1880.6	1887.1	1880.6	1877.3
7.5°	1890.4	1869.2	1875.7	1869.2	1867.6
10°	1874.1	1854.5	1861.0	1854.5	1851.3
12.5°	1856.1	1835.0	1843.1	1835.0	1831.7
15°	1830.1	1810.5	1818.7	1812.1	1808.9
17.5°	1804.0	1782.8	1791.0	1784.4	1779.6
20°	1771.4	1751.8	1760.0	1748.6	1747.0
22.5°	1735.6	1716.0	1724.1	1707.8	1707.8
25°	1696.4	1675.3	1685.0	1667.1	1665.5
27.5°	1650.8	1631.3	1639.4	1621.5	1619.8
30°	1603.6	1584.0	1592.1	1572.6	1569.3
32.5°	1549.8	1531.8	1538.4	1518.8	1517.2
35°	1494.4	1476.4	1481.3	1461.8	1460.1
37.5°	1432.4	1416.1	1419.4	1398.2	1396.6
40°	1365.6	1349.3	1351.0	1328.1	1326.5
42.5°	1292.3	1276.0	1274.4	1251.6	1249.9
45°	1209.2	1192.9	1188.0	1166.8	1163.6
47.5°	1117.9	1101.6	1091.9	1073.9	1072.3
50°	1016.9	1000.6	992.4	977.8	972.9
52.5°	907.7	891.4	884.9	871.9	867.0
55°	792.0	779.0	774.1	761.0	757.8
57.5°	681.2	671.4	669.8	656.7	655.1
60°	581.8	576.9	576.9	565.5	565.5
62.5°	497.0	493.8	497.0	490.5	488.9
65°	425.3	422.1	427.0	423.7	423.7
67.5°	365.0	365.0	368.3	366.7	366.7
70°	316.1	316.1	317.8	317.8	317.8
72.5°	272.1	270.5	275.4	275.4	273.8
75°	229.8	229.8	229.8	231.4	231.4
77.5°	187.4	187.4	189.0	189.0	187.4
80°	145.0	146.7	146.7	145.0	145.0
82.5°	102.7	104.3	104.3	104.3	102.7
85°	58.7	61.9	65.2	65.2	65.2
87.5°	21.2	27.7	32.6	32.6	31.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)