

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: P689002

Luminaire Tested: SQ4R-PW1-125D-92765-1-UNV-STD-W-4\_6500K

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P689002  
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-92765-1-UNV-STD-W-4\_6500K  
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
1250 LUMENS PER FOOT  
Light Source: 6500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5198.5 lumens  
Efficiency: N/A  
Efficacy: 84.9 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

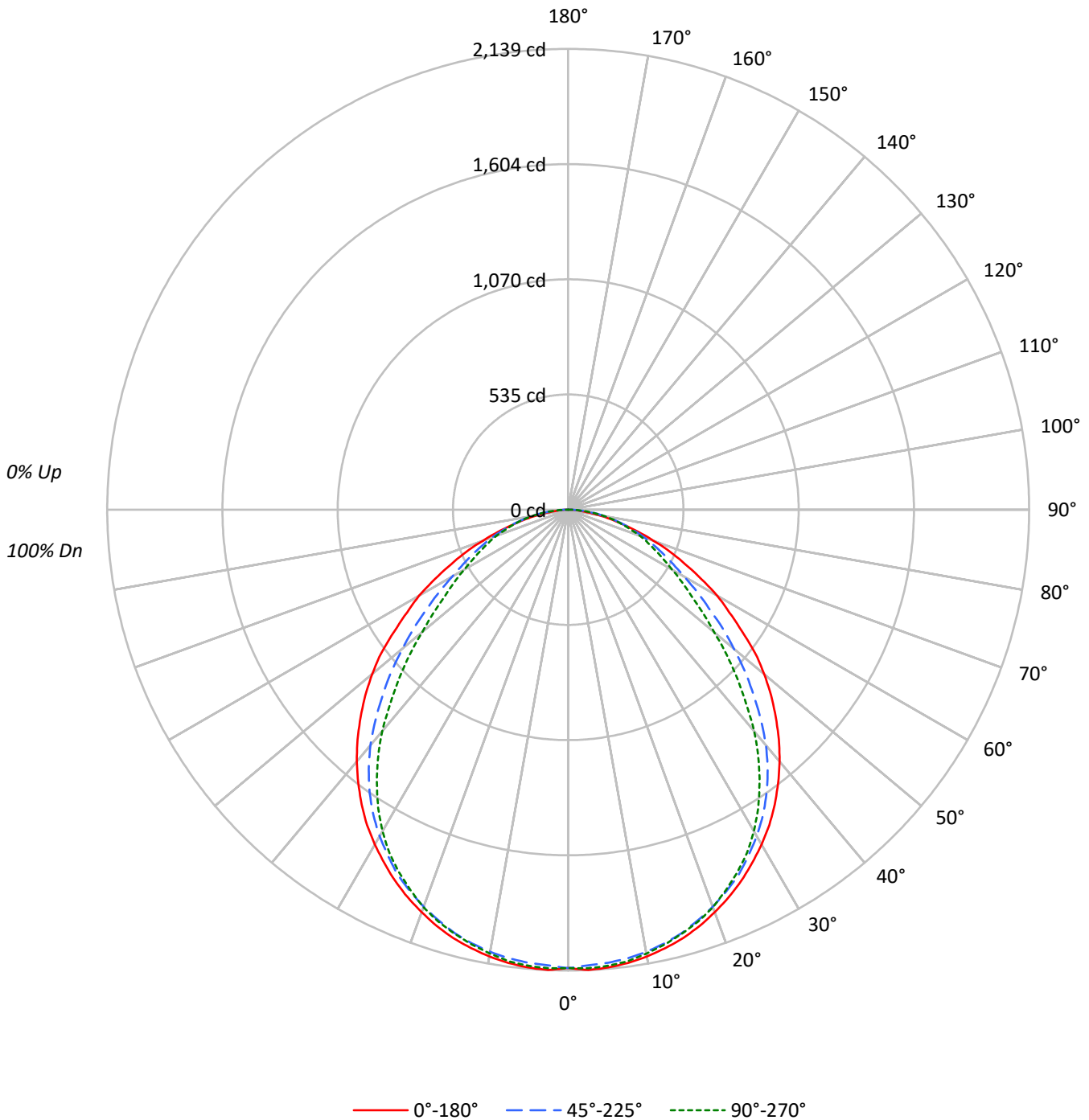
Input Watts (W): 61.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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°	20483	20483	20483
5°	20615	20403	20535
10°	20585	20372	20452
15°	20524	20279	20307
20°	20368	20089	20116
25°	20189	19871	19725
30°	19943	19456	19153
35°	19638	18867	18192
40°	19178	17940	16876
45°	18542	16570	15117
50°	17777	15031	13230
55°	16525	13357	11706
60°	15375	11953	10742
65°	13643	11089	10155
70°	11853	10547	10007
75°	9764	9969	9563
80°	7734	9403	9403
85°	5744	8461	8760

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 18542 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	201.9	3.9
10°-20°	576.6	11.1
20°-30°	863.6	16.6
30°-40°	1003.4	19.3
40°-50°	946.7	18.2
50°-60°	738.6	14.2
60°-70°	501.4	9.6
70°-80°	282.4	5.4
80°-90°	83.9	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°	1642.1	31.6
0°-40°	2645.5	50.9
0°-60°	4330.9	83.3
0°-90°	5198.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5198.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2128	2128	2128	2128	2128	
5°	2133	2128	2111	2128	2125	203
15°	2059	2051	2035	2046	2037	581
25°	1901	1892	1871	1865	1857	875
35°	1671	1654	1605	1570	1548	1044
45°	1362	1321	1217	1140	1110	1050
55°	984	927	796	719	697	884
65°	599	544	487	457	446	598
75°	262	274	268	257	257	286
85°	52	74	77	77	79	63
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2127.6	2127.6	2127.6	2127.6	2127.6
2.5°	2138.6	2133.1	2116.7	2133.1	2130.4
5°	2133.1	2127.6	2111.2	2127.6	2124.9
7.5°	2122.1	2119.4	2100.3	2116.7	2113.9
10°	2105.7	2103.0	2083.9	2097.5	2092.1
12.5°	2083.9	2081.1	2062.0	2072.9	2067.5
15°	2059.2	2051.0	2034.6	2045.6	2037.4
17.5°	2026.4	2018.2	1999.1	2007.3	2004.6
20°	1988.1	1979.9	1960.8	1969.0	1963.5
22.5°	1947.1	1938.9	1917.0	1919.8	1911.6
25°	1900.6	1892.4	1870.6	1865.1	1856.9
27.5°	1848.7	1843.2	1810.4	1804.9	1796.7
30°	1794.0	1785.8	1750.2	1739.3	1722.9
32.5°	1736.6	1720.1	1681.9	1660.0	1640.8
35°	1670.9	1654.5	1605.3	1569.7	1547.9
37.5°	1599.8	1575.2	1520.5	1471.3	1449.4
40°	1526.0	1498.6	1427.5	1361.9	1342.8
42.5°	1446.7	1413.9	1323.6	1255.2	1222.4
45°	1361.9	1320.9	1217.0	1140.4	1110.3
47.5°	1277.1	1225.2	1113.0	1031.0	998.2
50°	1186.9	1124.0	1003.6	916.1	883.3
52.5°	1093.9	1025.5	902.5	812.2	787.6
55°	984.5	927.1	795.8	719.2	697.4
57.5°	886.1	823.2	708.3	642.7	626.3
60°	798.5	722.0	620.8	571.6	557.9
62.5°	697.4	629.0	549.7	511.4	497.7
65°	598.9	544.2	486.8	456.7	445.8
67.5°	514.1	467.6	429.4	404.7	399.3
70°	421.1	396.5	374.7	355.5	355.5
72.5°	341.8	333.6	320.0	309.0	300.8
75°	262.5	273.5	268.0	257.1	257.1
77.5°	199.6	216.0	218.8	213.3	216.0
80°	139.5	164.1	169.6	166.8	169.6
82.5°	87.5	117.6	123.1	123.1	125.8
85°	52.0	73.8	76.6	76.6	79.3
87.5°	21.9	35.6	38.3	38.3	38.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)