

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: P688928

Luminaire Tested: SQ4R-PR1-125D-93050-1-UNV-STD-W-4_4500K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688928
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_4500K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
1250 LUMENS PER FOOT
Light Source: 4500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4821.0 lumens
Efficiency: N/A
Efficacy: 78.5 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

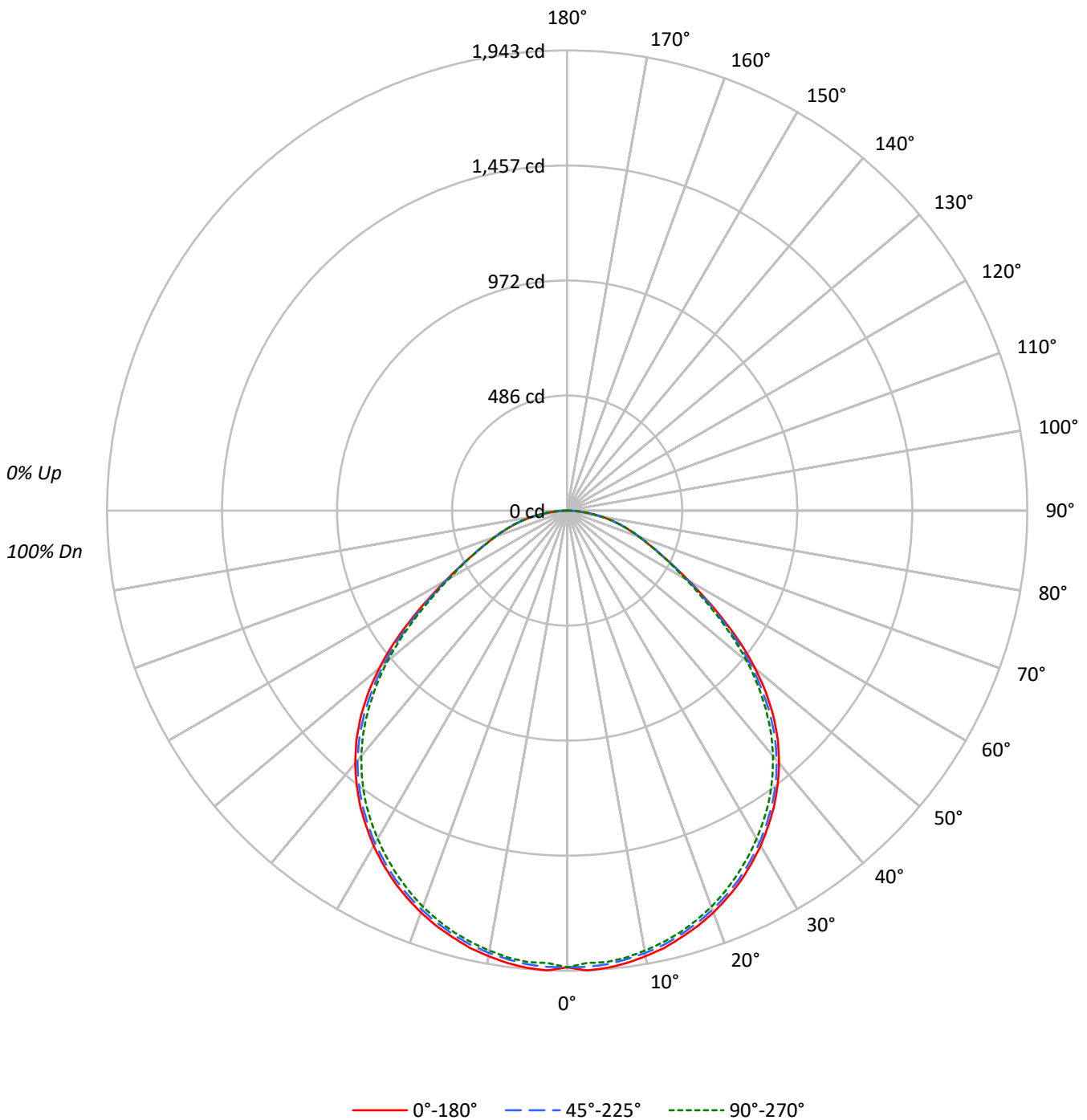
Input Watts (W): 61.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	18565	18565	18565
5°	18733	18589	18492
10°	18674	18544	18446
15°	18591	18476	18376
20°	18498	18379	18243
25°	18368	18244	18033
30°	18169	18040	17782
35°	17902	17746	17492
40°	17493	17306	16993
45°	16781	16487	16148
50°	15524	15151	14852
55°	13550	13243	12965
60°	11418	11322	11098
65°	9875	9914	9839
70°	9069	9117	9117
75°	8712	8712	8775
80°	8194	8289	8194
85°	6606	7335	7335

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16781 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.5	3.8
10°-20°	522.1	10.8
20°-30°	787.4	16.3
30°-40°	938.4	19.5
40°-50°	925.7	19.2
50°-60°	706.1	14.6
60°-70°	435.8	9.0
70°-80°	248.3	5.2
80°-90°	74.9	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°	1491.9	30.9
0°-40°	2430.2	50.4
0°-60°	4062.0	84.3
0°-90°	4821.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4821.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1928	1928	1928	1928	1928	
5°	1938	1917	1924	1917	1914	184
15°	1865	1845	1854	1847	1844	527
25°	1729	1708	1718	1699	1698	796
35°	1523	1505	1510	1490	1488	951
45°	1232	1216	1211	1189	1186	946
55°	807	794	789	776	772	723
65°	434	430	435	432	432	437
75°	234	234	234	236	236	247
85°	60	63	66	66	66	71
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1928.4	1928.4	1928.4	1928.4	1928.4
2.5°	1943.4	1921.8	1928.4	1923.5	1911.8
5°	1938.4	1916.8	1923.5	1916.8	1913.5
7.5°	1926.8	1905.2	1911.8	1905.2	1903.5
10°	1910.2	1890.2	1896.9	1890.2	1886.9
12.5°	1891.9	1870.3	1878.6	1870.3	1867.0
15°	1865.3	1845.4	1853.7	1847.1	1843.7
17.5°	1838.7	1817.2	1825.5	1818.8	1813.8
20°	1805.5	1785.6	1793.9	1782.3	1780.6
22.5°	1769.0	1749.1	1757.4	1740.7	1740.7
25°	1729.1	1707.5	1717.5	1699.2	1697.6
27.5°	1682.6	1662.7	1671.0	1652.7	1651.1
30°	1634.4	1614.5	1622.8	1602.9	1599.6
32.5°	1579.6	1561.4	1568.0	1548.1	1546.4
35°	1523.2	1504.9	1509.9	1489.9	1488.3
37.5°	1460.0	1443.4	1446.7	1425.2	1423.5
40°	1391.9	1375.3	1377.0	1353.7	1352.1
42.5°	1317.2	1300.6	1298.9	1275.7	1274.0
45°	1232.5	1215.9	1210.9	1189.3	1186.0
47.5°	1139.5	1122.8	1112.9	1094.6	1093.0
50°	1036.5	1019.9	1011.6	996.6	991.6
52.5°	925.2	908.6	901.9	888.6	883.7
55°	807.3	794.0	789.0	775.7	772.4
57.5°	694.3	684.3	682.7	669.4	667.7
60°	593.0	588.0	588.0	576.4	576.4
62.5°	506.6	503.3	506.6	500.0	498.3
65°	433.5	430.2	435.2	431.9	431.9
67.5°	372.1	372.1	375.4	373.7	373.7
70°	322.2	322.2	323.9	323.9	323.9
72.5°	277.4	275.7	280.7	280.7	279.1
75°	234.2	234.2	234.2	235.9	235.9
77.5°	191.0	191.0	192.7	192.7	191.0
80°	147.8	149.5	149.5	147.8	147.8
82.5°	104.6	106.3	106.3	106.3	104.6
85°	59.8	63.1	66.4	66.4	66.4
87.5°	21.6	28.2	33.2	33.2	31.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)