

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: P688997

Luminaire Tested: SQ4R-PW1-125D-92765-1-UNV-STD-W-4_3500K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688997
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_3500K
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: 4640.9 lumens
Efficiency: N/A
Efficacy: 75.8 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

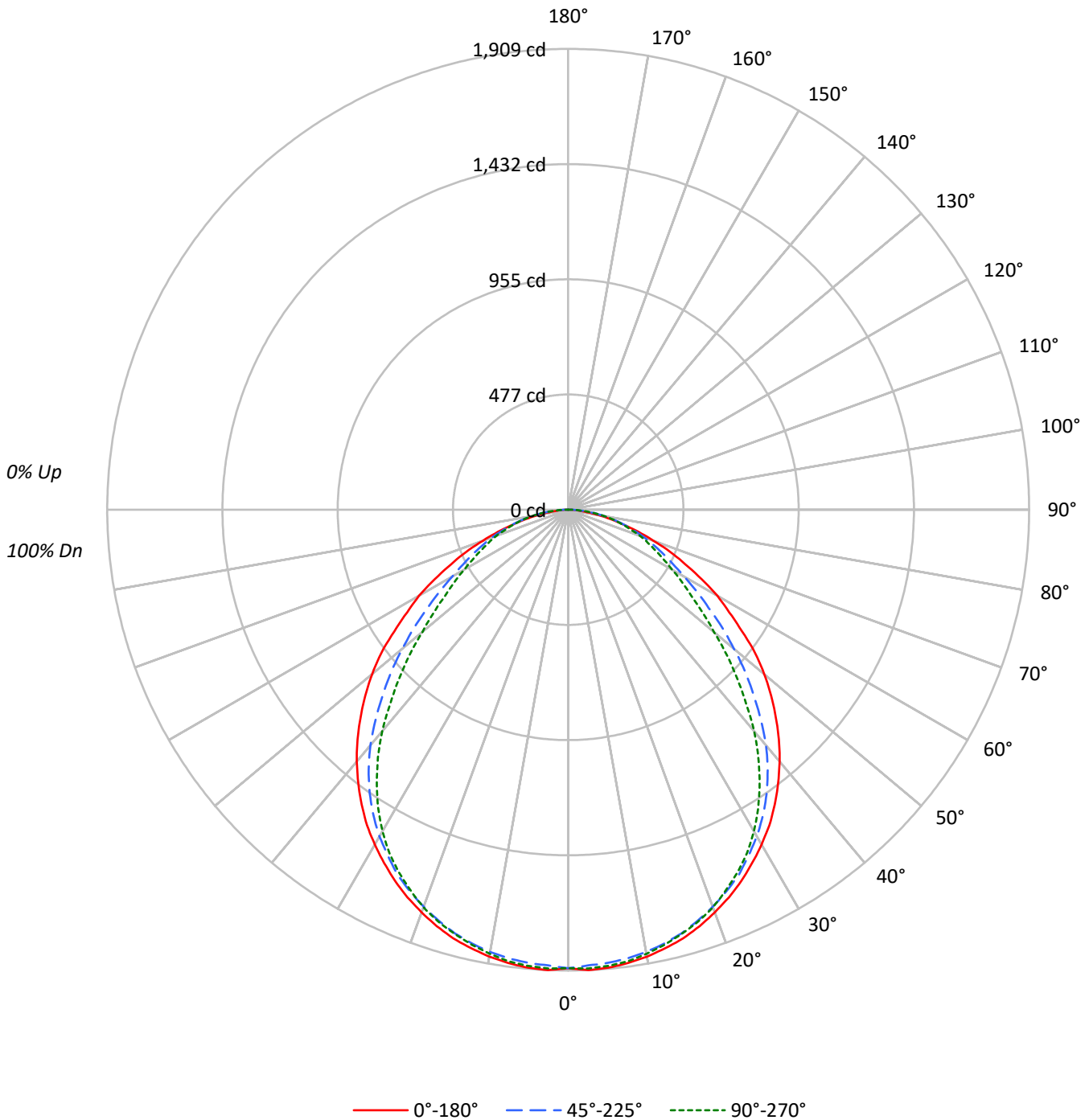
Input Watts (W): 61.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	109	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85				85
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72				72
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62				62
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54				54
5	78	66	57	51	76	65	57	50	63	55	50	61	54	49	59	53	49	47				47
6	72	59	51	45	70	59	50	44	57	49	44	55	49	44	54	48	43	41				41
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39	37				37
8	63	50	41	36	61	49	41	36	48	40	35	46	40	35	45	39	35	33				33
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30				30
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27				27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18286	18286	18286
5°	18403	18214	18333
10°	18378	18186	18258
15°	18323	18104	18128
20°	18184	17934	17959
25°	18024	17739	17609
30°	17803	17370	17099
35°	17532	16843	16240
40°	17121	16016	15065
45°	16553	14791	13495
50°	15870	13420	11811
55°	14752	11924	10450
60°	13727	10671	9589
65°	12181	9900	9064
70°	10584	9416	8934
75°	8719	8901	8537
80°	6902	8394	8394
85°	5125	7556	7821

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16553 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.2	3.9
10°-20°	514.7	11.1
20°-30°	771.0	16.6
30°-40°	895.8	19.3
40°-50°	845.2	18.2
50°-60°	659.4	14.2
60°-70°	447.6	9.6
70°-80°	252.1	5.4
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°	1465.9	31.6
0°-40°	2361.7	50.9
0°-60°	3866.3	83.3
0°-90°	4640.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4640.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1899	1899	1899	1899	1899	
5°	1904	1899	1885	1899	1897	181
15°	1838	1831	1816	1826	1819	518
25°	1697	1689	1670	1665	1658	781
35°	1492	1477	1433	1401	1382	932
45°	1216	1179	1086	1018	991	937
55°	879	828	710	642	623	789
65°	535	486	435	408	398	534
75°	234	244	239	230	230	255
85°	46	66	68	68	71	56
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1899.4	1899.4	1899.4	1899.4	1899.4
2.5°	1909.2	1904.3	1889.6	1904.3	1901.8
5°	1904.3	1899.4	1884.7	1899.4	1897.0
7.5°	1894.5	1892.1	1875.0	1889.6	1887.2
10°	1879.9	1877.4	1860.3	1872.5	1867.7
12.5°	1860.3	1857.9	1840.8	1850.6	1845.7
15°	1838.4	1831.0	1816.4	1826.2	1818.8
17.5°	1809.1	1801.7	1784.6	1792.0	1789.5
20°	1774.9	1767.6	1750.5	1757.8	1752.9
22.5°	1738.3	1730.9	1711.4	1713.8	1706.5
25°	1696.8	1689.4	1669.9	1665.0	1657.7
27.5°	1650.4	1645.5	1616.2	1611.3	1604.0
30°	1601.5	1594.2	1562.5	1552.7	1538.1
32.5°	1550.3	1535.6	1501.4	1481.9	1464.8
35°	1491.7	1477.0	1433.1	1401.4	1381.8
37.5°	1428.2	1406.2	1357.4	1313.5	1293.9
40°	1362.3	1337.9	1274.4	1215.8	1198.7
42.5°	1291.5	1262.2	1181.6	1120.6	1091.3
45°	1215.8	1179.2	1086.4	1018.1	991.2
47.5°	1140.1	1093.7	993.6	920.4	891.1
50°	1059.6	1003.4	896.0	817.9	788.6
52.5°	976.6	915.5	805.7	725.1	703.1
55°	878.9	827.6	710.4	642.1	622.6
57.5°	791.0	734.9	632.3	573.7	559.1
60°	712.9	644.5	554.2	510.2	498.0
62.5°	622.6	561.5	490.7	456.5	444.3
65°	534.7	485.8	434.6	407.7	397.9
67.5°	459.0	417.5	383.3	361.3	356.4
70°	376.0	354.0	334.5	317.4	317.4
72.5°	305.2	297.8	285.6	275.9	268.6
75°	234.4	244.1	239.3	229.5	229.5
77.5°	178.2	192.9	195.3	190.4	192.9
80°	124.5	146.5	151.4	148.9	151.4
82.5°	78.1	105.0	109.9	109.9	112.3
85°	46.4	65.9	68.4	68.4	70.8
87.5°	19.5	31.7	34.2	34.2	34.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)