

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: P688995

Luminaire Tested: SQ4R-PW1-125D-92765-1-UNV-STD-W-4_2700K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688995
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_2700K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
1250 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4358.8 lumens
Efficiency: N/A
Efficacy: 71.8 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

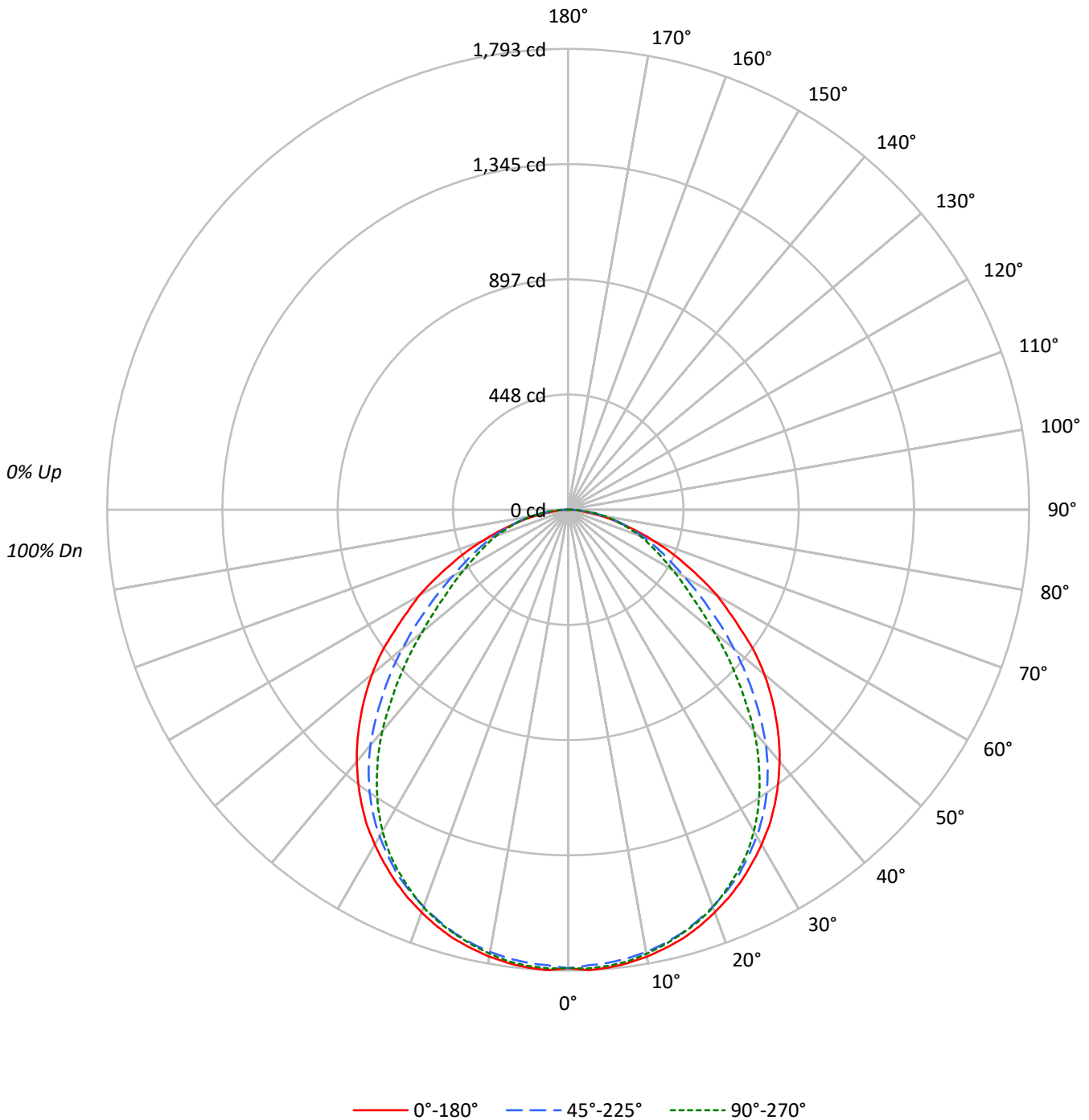
Input Watts (W): 60.7
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	17174	17174	17174
5°	17284	17107	17218
10°	17260	17081	17148
15°	17209	17004	17027
20°	17079	16844	16868
25°	16928	16660	16538
30°	16722	16314	16059
35°	16466	15819	15253
40°	16080	15042	14150
45°	15547	13893	12676
50°	14906	12604	11092
55°	13856	11200	9814
60°	12893	10022	9007
65°	11440	9299	8515
70°	9939	8841	8391
75°	8187	8358	8016
80°	6481	7884	7884
85°	4816	7092	7346

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15547 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.3	3.9
10°-20°	483.4	11.1
20°-30°	724.1	16.6
30°-40°	841.3	19.3
40°-50°	793.8	18.2
50°-60°	619.3	14.2
60°-70°	420.4	9.6
70°-80°	236.8	5.4
80°-90°	70.3	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°	1376.8	31.6
0°-40°	2218.2	50.9
0°-60°	3631.3	83.3
0°-90°	4358.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4358.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1784	1784	1784	1784	1784	
5°	1788	1784	1770	1784	1782	170
15°	1727	1720	1706	1715	1708	487
25°	1594	1587	1568	1564	1557	734
35°	1401	1387	1346	1316	1298	875
45°	1142	1108	1020	956	931	880
55°	826	777	667	603	585	741
65°	502	456	408	383	374	502
75°	220	229	225	216	216	240
85°	44	62	64	64	66	53
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1783.9	1783.9	1783.9	1783.9	1783.9
2.5°	1793.1	1788.5	1774.8	1788.5	1786.2
5°	1788.5	1783.9	1770.2	1783.9	1781.6
7.5°	1779.4	1777.1	1761.0	1774.8	1772.5
10°	1765.6	1763.3	1747.3	1758.7	1754.1
12.5°	1747.3	1745.0	1728.9	1738.1	1733.5
15°	1726.6	1719.7	1706.0	1715.2	1708.3
17.5°	1699.1	1692.2	1676.2	1683.1	1680.8
20°	1667.0	1660.1	1644.1	1650.9	1646.4
22.5°	1632.6	1625.7	1607.4	1609.7	1602.8
25°	1593.6	1586.7	1568.4	1563.8	1556.9
27.5°	1550.1	1545.5	1518.0	1513.4	1506.5
30°	1504.2	1497.3	1467.5	1458.3	1444.6
32.5°	1456.0	1442.3	1410.2	1391.8	1375.8
35°	1401.0	1387.3	1346.0	1316.2	1297.8
37.5°	1341.4	1320.8	1274.9	1233.6	1215.3
40°	1279.5	1256.6	1196.9	1141.9	1125.9
42.5°	1213.0	1185.5	1109.8	1052.5	1025.0
45°	1141.9	1107.5	1020.4	956.2	931.0
47.5°	1070.8	1027.3	933.2	864.5	836.9
50°	995.2	942.4	841.5	768.1	740.6
52.5°	917.2	859.9	756.7	681.0	660.4
55°	825.5	777.3	667.3	603.1	584.7
57.5°	742.9	690.2	593.9	538.9	525.1
60°	669.6	605.3	520.5	479.2	467.8
62.5°	584.7	527.4	460.9	428.8	417.3
65°	502.2	456.3	408.2	382.9	373.8
67.5°	431.1	392.1	360.0	339.4	334.8
70°	353.1	332.5	314.1	298.1	298.1
72.5°	286.6	279.7	268.3	259.1	252.2
75°	220.1	229.3	224.7	215.5	215.5
77.5°	167.4	181.1	183.4	178.9	181.1
80°	116.9	137.6	142.2	139.9	142.2
82.5°	73.4	98.6	103.2	103.2	105.5
85°	43.6	61.9	64.2	64.2	66.5
87.5°	18.3	29.8	32.1	32.1	32.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)