

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P1036284

Luminaire Tested: SQ4R-PP3-125D-B2750-1D-UNV-W2A_2700K

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-2019
Report Number: P1036284
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P563482)
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4R-PP3-125D-B2750-1D-UNV-W2A_2700K
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, DIRECT ONLY 1250 LUMENS PER FOOT DC

Light Source: -
Ballast/Driver: -

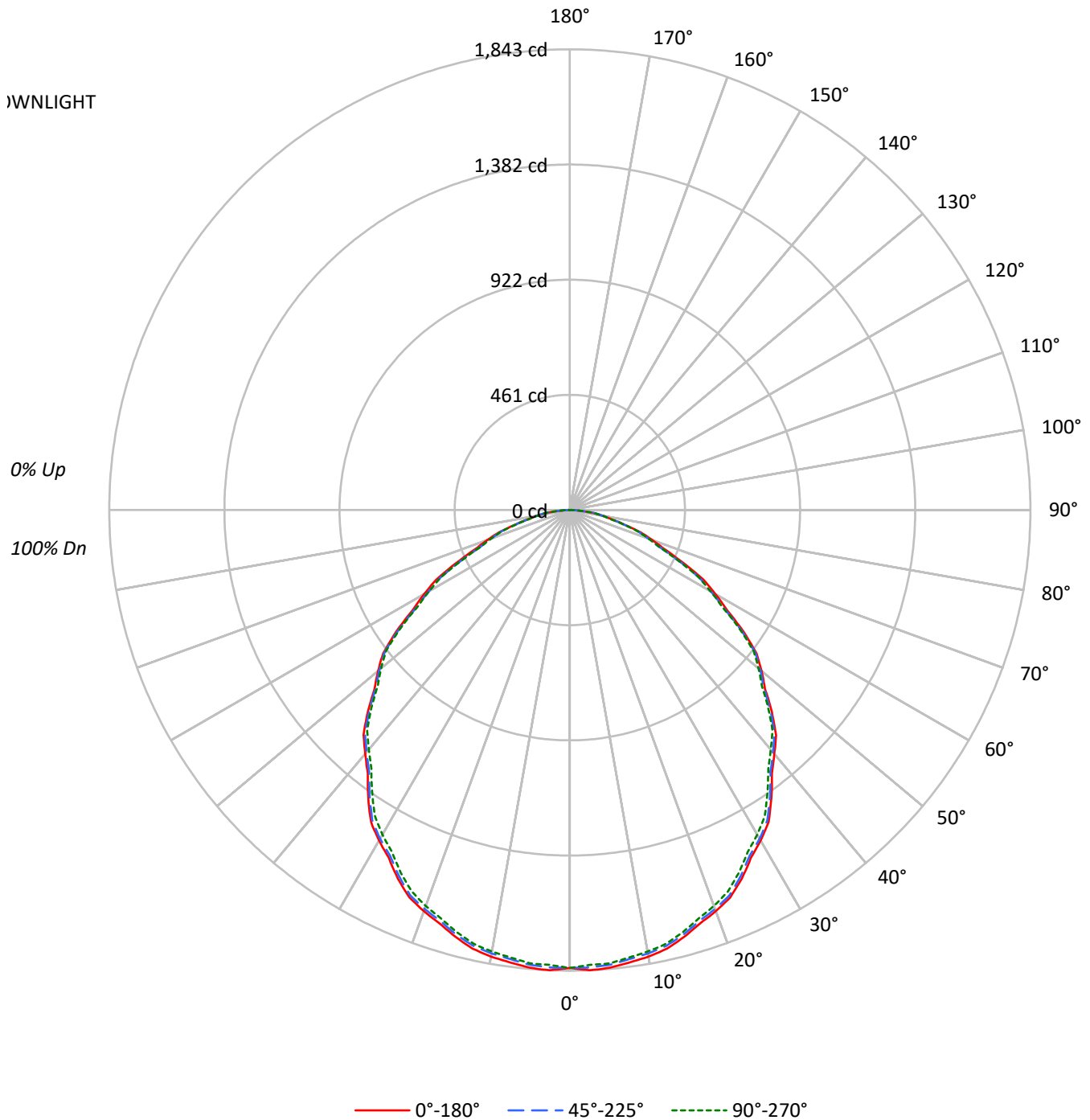
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4688.0 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 45.8
Input Voltage (V): NR
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	98	95	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	72
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61
4	84	72	64	57	82	71	63	57	69	62	56	66	60	56	64	59	55	53
5	77	65	56	50	75	64	56	49	62	54	49	60	53	48	58	52	48	46
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16900	16900	16900
5°	17023	16918	16860
10°	16995	16876	16801
15°	16883	16790	16697
20°	16770	16674	16550
25°	16570	16458	16294
30°	16265	16179	15973
35°	15839	15730	15531
40°	15331	15234	15061
45°	14915	14811	14662
50°	14378	14286	14147
55°	13632	13454	13352
60°	12411	12059	11998
65°	10937	10477	10442
70°	9436	9050	9050
75°	8131	8010	7892
80°	7162	7252	7072
85°	5600	6119	6119

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 14915 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.2	3.7
10°-20°	494.5	10.5
20°-30°	740.8	15.8
30°-40°	868.9	18.5
40°-50°	871.6	18.6
50°-60°	743.5	15.9
60°-70°	484.9	10.3
70°-80°	243.3	5.2
80°-90°	67.3	1.4
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°	1408.5	30.0
0°-40°	2277.4	48.6
0°-60°	3892.5	83.0
0°-90°	4688.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4688.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1832	1832	1832	1832	1832	
5°	1838	1821	1827	1820	1820	175
15°	1768	1750	1758	1751	1748	499
25°	1628	1609	1617	1602	1601	749
35°	1406	1392	1397	1381	1379	878
45°	1143	1135	1135	1124	1124	880
55°	848	844	836	831	830	753
65°	501	492	480	477	478	500
75°	228	228	225	223	221	247
85°	53	58	58	58	58	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1831.7	1831.7	1831.7	1831.7	1831.7
2.5°	1843.1	1828.1	1831.7	1829.0	1821.5
5°	1838.1	1820.9	1826.7	1820.4	1820.4
7.5°	1825.6	1806.8	1812.6	1806.3	1806.0
10°	1814.0	1795.2	1801.3	1794.6	1793.3
12.5°	1797.4	1778.6	1785.8	1778.0	1777.8
15°	1767.5	1750.1	1757.8	1751.2	1748.1
17.5°	1733.7	1714.9	1724.1	1715.2	1713.8
20°	1708.0	1689.2	1698.3	1685.6	1685.6
22.5°	1677.3	1658.5	1669.0	1652.1	1652.1
25°	1627.7	1608.9	1616.7	1602.0	1600.6
27.5°	1569.1	1550.5	1558.5	1541.9	1541.7
30°	1526.7	1509.3	1518.7	1501.0	1499.3
32.5°	1480.5	1464.4	1471.1	1453.4	1451.7
35°	1406.3	1392.2	1396.6	1380.6	1378.9
37.5°	1328.3	1313.9	1318.9	1305.0	1304.5
40°	1272.9	1263.5	1264.9	1253.5	1250.5
42.5°	1221.7	1210.9	1212.3	1200.9	1200.4
45°	1143.1	1135.1	1135.1	1123.7	1123.7
47.5°	1059.5	1053.4	1051.8	1042.4	1042.1
50°	1001.7	997.0	995.3	987.3	985.6
52.5°	941.3	939.1	933.6	926.9	926.7
55°	847.5	844.5	836.4	831.4	830.1
57.5°	745.9	739.6	730.4	723.5	724.6
60°	672.6	666.2	653.5	650.2	650.2
62.5°	602.0	594.5	581.5	577.1	579.6
65°	501.0	491.6	479.9	476.9	478.3
67.5°	409.1	400.5	388.0	388.0	386.9
70°	349.8	345.1	335.5	335.5	335.5
72.5°	297.3	295.0	288.1	287.9	286.7
75°	228.1	228.1	224.7	223.1	221.4
77.5°	170.8	171.3	169.9	168.3	165.2
80°	134.8	138.1	136.5	134.8	133.1
82.5°	101.6	104.6	104.3	101.6	101.0
85°	52.9	57.6	57.8	57.8	57.8
87.5°	14.1	19.1	20.5	20.5	21.9
90°	0.0	0.0	0.0	0.0	0.0



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	20.91	22.50	21.27	22.81	23.12	20.75	22.33	21.11	22.65	22.96
	3H	22.22	23.65	22.60	23.98	24.34	22.02	23.45	22.40	23.77	24.14
	4H	22.71	24.05	23.11	24.40	24.77	22.51	23.85	22.90	24.20	24.57
	6H	23.02	24.26	23.44	24.63	25.02	22.83	24.07	23.24	24.43	24.82
	8H	23.15	24.33	23.57	24.72	25.12	22.95	24.14	23.38	24.53	24.93
	12H	23.22	24.35	23.65	24.73	25.16	23.04	24.17	23.47	24.55	24.98
4H	2H	21.38	22.72	21.78	23.07	23.44	21.24	22.58	21.64	22.93	23.31
	3H	22.91	24.03	23.32	24.43	24.83	22.74	23.86	23.15	24.26	24.66
	4H	23.51	24.51	23.94	24.93	25.37	23.34	24.34	23.77	24.76	25.19
	6H	23.94	24.82	24.40	25.26	25.72	23.77	24.65	24.23	25.09	25.55
	8H	24.12	24.94	24.58	25.38	25.85	23.95	24.77	24.41	25.22	25.68
	12H	24.23	24.96	24.71	25.44	25.91	24.08	24.81	24.56	25.29	25.76
8H	4H	23.71	24.53	24.18	24.98	25.44	23.56	24.38	24.02	24.82	25.29
	6H	24.26	24.94	24.76	25.43	25.91	24.11	24.79	24.61	25.28	25.76
	8H	24.51	25.12	25.03	25.63	26.12	24.36	24.97	24.87	25.48	25.97
	12H	24.69	25.23	25.20	25.72	26.29	24.56	25.10	25.07	25.59	26.15
12H	4H	23.73	24.46	24.21	24.94	25.41	23.58	24.31	24.06	24.79	25.26
	6H	24.30	24.91	24.81	25.42	25.91	24.15	24.77	24.67	25.27	25.76
	8H	24.61	25.15	25.12	25.64	26.20	24.46	25.00	24.97	25.50	26.06