

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: P1036385

Luminaire Tested: SQ4R-WB-125D-B2750-1D-UNV-W2A_3000K

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-2019
Report Number: P1036385
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P519276)
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4R-WB-125D-B2750-1D-UNV-W2A_3000K
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, DIRECT ONLY 1250 LUMENS PER FOOT DC

Light Source: -
Ballast/Driver: -

Summary

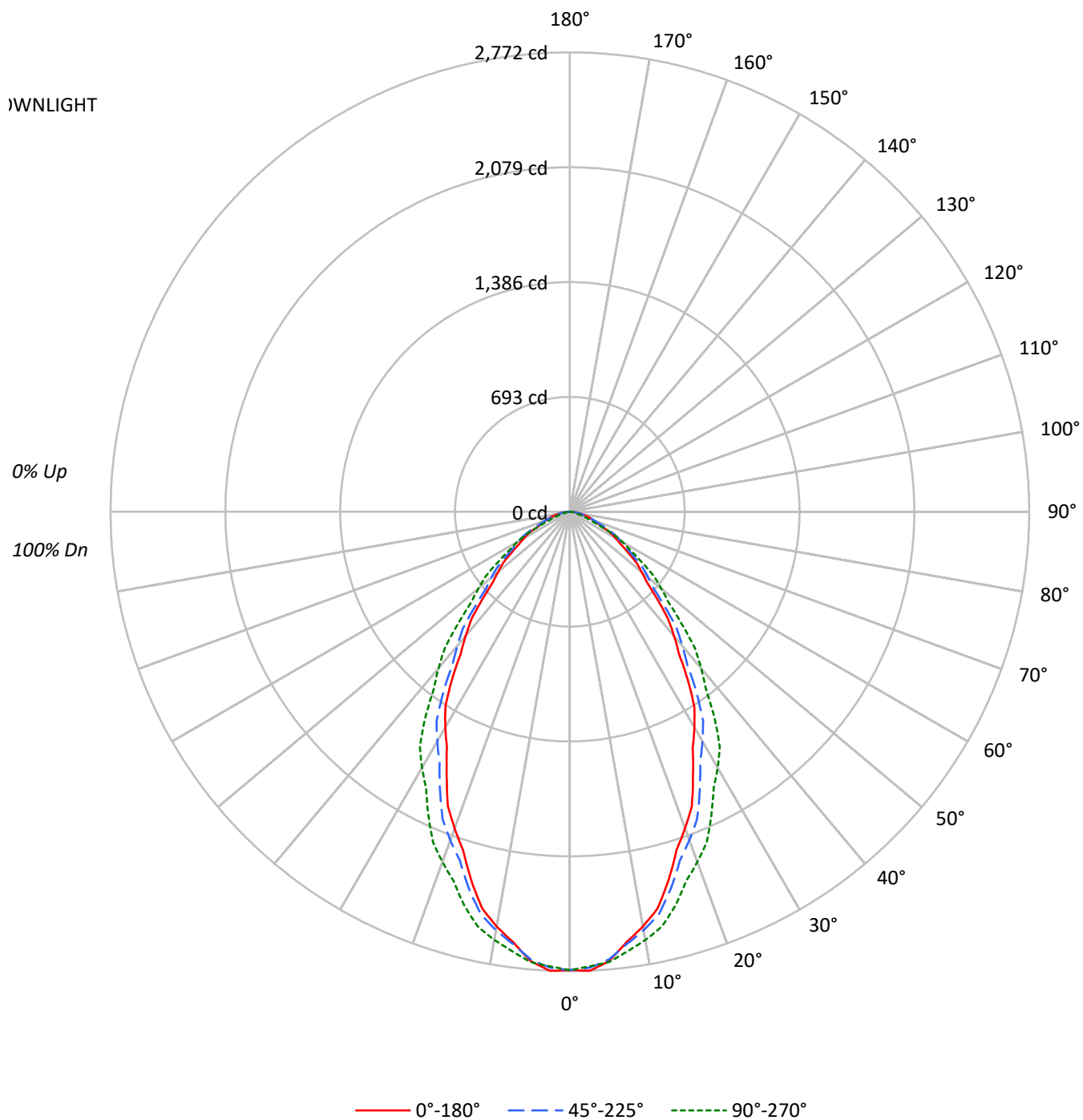
Lumens per Lamp: N/A
Luminaire Lumens: 4029.8 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 45.8
Input Voltage (V): NR
Input Current (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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	111	107	104	101	109	105	102	99	101	99	96		97	95	93		94
2	103	97	91	87	101	95	90	86	92	87	84		88	85	82		85
3	96	87	81	75	94	86	80	75	83	78	73		80	76	72		78
4	89	79	72	66	87	78	71	66	76	70	65		74	68	64		71
5	83	72	65	59	81	71	64	59	69	63	58		67	62	58		66
6	78	66	59	53	76	65	58	53	64	57	53		62	56	52		61
7	73	61	53	48	71	60	53	48	59	52	48		58	52	47		56
8	68	57	49	44	67	56	49	44	55	48	44		53	48	43		52
9	64	53	45	40	63	52	45	40	51	45	40		50	44	40		49
10	61	49	42	37	60	48	42	37	48	41	37		47	41	37		46

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25515	25515	25515
5°	25198	25106	25254
10°	23805	24022	24577
15°	21975	22487	23494
20°	19957	20706	22076
25°	17900	18877	20569
30°	16005	17050	19003
35°	13994	15007	17154
40°	11778	12715	14849
45°	9721	10558	12398
50°	8114	8847	10327
55°	6889	7592	8528
60°	5890	6584	6807
65°	4689	5536	4395
70°	4157	4319	2684
75°	3846	3508	1647
80°	3544	3225	1413
85°	3197	2964	1164

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 12398 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.7	6.3
10°-20°	659.8	16.4
20°-30°	854.6	21.2
30°-40°	836.9	20.8
40°-50°	640.6	15.9
50°-60°	426.9	10.6
60°-70°	232.9	5.8
70°-80°	97.1	2.4
80°-90°	27.5	0.7
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°	1768.1	43.9
0°-40°	2604.9	64.6
0°-60°	3672.4	91.1
0°-90°	4029.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4029.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2766	2766	2766	2766	2766	
5°	2721	2693	2711	2717	2727	253
15°	2301	2292	2354	2418	2460	642
25°	1758	1763	1854	1935	2020	809
35°	1242	1249	1332	1422	1523	772
45°	745	759	809	870	950	581
55°	428	446	472	490	530	388
65°	215	233	254	222	201	223
75°	108	108	98	68	46	115
85°	30	30	28	18	11	34
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2765.5	2765.5	2765.5	2765.5	2765.5
2.5°	2772.3	2747.6	2754.0	2753.7	2745.9
5°	2720.7	2693.2	2710.8	2717.1	2726.8
7.5°	2619.6	2599.0	2631.1	2654.8	2673.9
10°	2541.0	2523.1	2564.1	2598.7	2623.4
12.5°	2449.9	2434.7	2485.5	2531.7	2564.3
15°	2300.6	2292.4	2354.2	2418.2	2459.7
17.5°	2141.3	2137.2	2208.1	2282.8	2335.8
20°	2032.6	2031.5	2108.9	2187.0	2248.4
22.5°	1923.0	1925.4	2007.0	2088.1	2158.4
25°	1758.4	1763.0	1854.3	1935.0	2020.5
27.5°	1606.2	1608.4	1702.4	1787.8	1879.0
30°	1502.3	1508.2	1600.4	1688.9	1783.7
32.5°	1398.5	1405.4	1495.8	1587.0	1683.7
35°	1242.5	1248.6	1332.4	1422.1	1523.0
37.5°	1081.8	1090.0	1164.5	1249.1	1348.5
40°	977.9	990.0	1055.7	1135.7	1232.9
42.5°	877.9	892.8	953.8	1029.5	1117.2
45°	745.0	759.3	809.2	870.5	950.2
47.5°	630.4	646.9	685.4	738.2	806.0
50°	565.3	581.0	616.4	655.5	719.5
52.5°	508.2	523.6	555.2	585.4	640.1
55°	428.3	446.2	472.0	490.1	530.2
57.5°	362.9	379.9	400.5	408.4	433.0
60°	319.2	338.2	356.8	355.7	368.9
62.5°	279.4	295.6	314.0	301.1	301.9
65°	214.8	232.7	253.6	221.7	201.3
67.5°	173.6	177.2	198.9	154.7	130.5
70°	154.1	154.1	160.1	119.7	99.5
72.5°	135.7	135.7	130.3	97.2	76.0
75°	107.9	107.9	98.4	67.6	46.2
77.5°	83.2	82.4	75.3	50.2	33.6
80°	66.7	66.7	60.7	39.8	26.6
82.5°	52.2	52.2	47.0	31.1	19.8
85°	30.2	30.2	28.0	18.2	11.0
87.5°	10.7	10.7	9.6	5.8	5.0
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	17.00	18.38	17.37	18.69	19.01	17.63	19.00	17.99	19.31	19.63
	3H	17.98	19.20	18.36	19.53	19.89	18.08	19.31	18.46	19.64	20.00
	4H	18.42	19.56	18.82	19.91	20.29	18.16	19.30	18.57	19.65	20.04
	6H	18.72	19.77	19.14	20.14	20.54	18.17	19.22	18.59	19.59	19.99
	8H	18.85	19.85	19.28	20.24	20.64	18.17	19.17	18.60	19.56	19.96
	12H	18.94	19.89	19.37	20.27	20.70	18.15	19.11	18.59	19.49	19.92
4H	2H	17.49	18.63	17.90	18.98	19.37	18.01	19.15	18.41	19.50	19.88
	3H	18.66	19.60	19.07	20.00	20.40	18.64	19.58	19.05	19.98	20.38
	4H	19.19	20.03	19.63	20.45	20.89	18.78	19.61	19.21	20.03	20.48
	6H	19.61	20.34	20.08	20.78	21.25	18.85	19.57	19.31	20.02	20.48
	8H	19.79	20.47	20.26	20.91	21.38	18.86	19.53	19.32	19.98	20.45
	12H	19.92	20.52	20.40	21.00	21.47	18.86	19.45	19.34	19.94	20.41
8H	4H	19.30	19.98	19.77	20.42	20.89	18.92	19.60	19.39	20.05	20.52
	6H	19.84	20.39	20.34	20.89	21.37	19.07	19.63	19.57	20.12	20.60
	8H	20.10	20.60	20.62	21.11	21.60	19.12	19.62	19.64	20.14	20.63
	12H	20.31	20.75	20.82	21.24	21.81	19.16	19.60	19.67	20.09	20.66
12H	4H	19.28	19.88	19.77	20.37	20.84	18.93	19.53	19.41	20.01	20.48
	6H	19.84	20.34	20.36	20.85	21.35	19.11	19.61	19.63	20.12	20.61
	8H	20.16	20.60	20.68	21.09	21.66	19.22	19.65	19.73	20.15	20.72