

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: P1036389

Luminaire Tested: SQ4R-WB-125D-B35-1D-UNV

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-2019
Report Number: P1036389
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-B35-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, DIRECT ONLY 1250 LUMENS PER FOOT DC

Light Source: -
Ballast/Driver: -

Summary

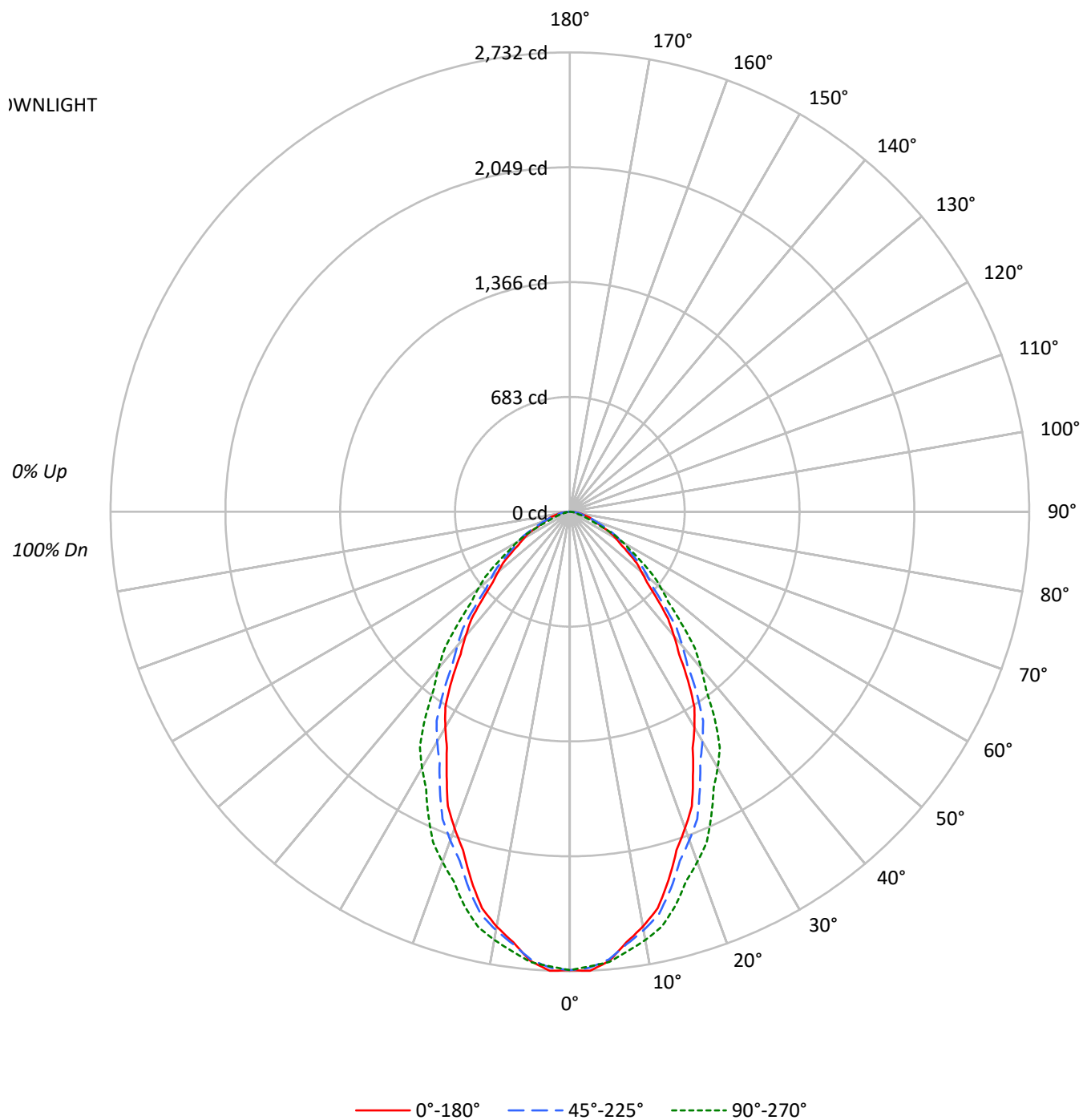
Lumens per Lamp: N/A
Luminaire Lumens: 3972.0 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

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°	25149	25149	25149
5°	24836	24746	24891
10°	23463	23677	24225
15°	21659	22165	23157
20°	19670	20409	21759
25°	17643	18606	20273
30°	15776	16805	18730
35°	13794	14791	16907
40°	11609	12532	14636
45°	9581	10407	12221
50°	7998	8721	10179
55°	6791	7483	8406
60°	5805	6490	6709
65°	4624	5456	4333
70°	4098	4257	2646
75°	3793	3458	1622
80°	3496	3177	1392
85°	3144	2922	1154

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 12221 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.0	6.3
10°-20°	650.3	16.4
20°-30°	842.3	21.2
30°-40°	824.9	20.8
40°-50°	631.4	15.9
50°-60°	420.7	10.6
60°-70°	229.6	5.8
70°-80°	95.7	2.4
80°-90°	27.1	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°	1742.7	43.9
0°-40°	2567.5	64.6
0°-60°	3619.6	91.1
0°-90°	3972.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3972.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2726	2726	2726	2726	2726	
5°	2682	2655	2672	2678	2688	249
15°	2268	2260	2320	2384	2424	633
25°	1733	1738	1828	1907	1992	797
35°	1225	1231	1313	1402	1501	761
45°	734	748	798	858	937	573
55°	422	440	465	483	523	383
65°	212	229	250	218	198	220
75°	106	106	97	67	46	114
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°	2725.8	2725.8	2725.8	2725.8	2725.8
2.5°	2732.5	2708.2	2714.4	2714.2	2706.5
5°	2681.7	2654.6	2671.9	2678.1	2687.6
7.5°	2582.0	2561.7	2593.4	2616.7	2635.6
10°	2504.5	2486.9	2527.3	2561.4	2585.8
12.5°	2414.7	2399.7	2449.8	2495.3	2527.5
15°	2267.6	2259.5	2320.5	2383.5	2424.4
17.5°	2110.6	2106.6	2176.4	2250.0	2302.3
20°	2003.4	2002.3	2078.7	2155.6	2216.2
22.5°	1895.4	1897.7	1978.2	2058.1	2127.4
25°	1733.1	1737.7	1827.7	1907.2	1991.5
27.5°	1583.1	1585.3	1677.9	1762.1	1852.0
30°	1480.8	1486.5	1577.4	1664.6	1758.1
32.5°	1378.4	1385.3	1474.3	1564.2	1659.6
35°	1224.7	1230.6	1313.2	1401.7	1501.1
37.5°	1066.2	1074.4	1147.8	1231.1	1329.2
40°	963.9	975.8	1040.5	1119.4	1215.2
42.5°	865.3	880.0	940.1	1014.8	1101.2
45°	734.3	748.4	797.6	858.0	936.6
47.5°	621.4	637.6	675.6	727.6	794.4
50°	557.2	572.7	607.6	646.0	709.2
52.5°	500.9	516.1	547.2	577.0	630.9
55°	422.2	439.8	465.2	483.0	522.6
57.5°	357.7	374.5	394.8	402.6	426.8
60°	314.6	333.3	351.7	350.6	363.6
62.5°	275.4	291.3	309.5	296.8	297.6
65°	211.8	229.4	249.9	218.5	198.5
67.5°	171.2	174.7	196.0	152.5	128.6
70°	151.9	151.9	157.8	118.0	98.1
72.5°	133.8	133.8	128.4	95.8	75.0
75°	106.4	106.4	97.0	66.6	45.5
77.5°	82.0	81.2	74.2	49.5	33.1
80°	65.8	65.8	59.8	39.2	26.2
82.5°	51.5	51.5	46.3	30.6	19.5
85°	29.7	29.7	27.6	17.9	10.9
87.5°	10.6	10.6	9.5	5.7	4.9
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	16.95	18.33	17.32	18.64	18.96	17.58	18.95	17.94	19.26	19.58
	3H	17.93	19.15	18.31	19.48	19.84	18.04	19.26	18.41	19.59	19.95
	4H	18.37	19.51	18.77	19.86	20.24	18.11	19.25	18.52	19.60	19.99
	6H	18.68	19.72	19.09	20.09	20.49	18.13	19.17	18.54	19.54	19.94
	8H	18.81	19.80	19.23	20.19	20.60	18.12	19.12	18.55	19.51	19.91
	12H	18.89	19.84	19.32	20.22	20.65	18.10	19.06	18.54	19.44	19.87
4H	2H	17.44	18.58	17.85	18.93	19.32	17.96	19.10	18.36	19.45	19.83
	3H	18.61	19.55	19.02	19.95	20.35	18.59	19.53	19.01	19.93	20.33
	4H	19.14	19.98	19.58	20.40	20.84	18.73	19.56	19.16	19.98	20.43
	6H	19.57	20.29	20.03	20.73	21.20	18.80	19.52	19.26	19.97	20.43
	8H	19.74	20.42	20.21	20.86	21.33	18.81	19.48	19.27	19.93	20.40
	12H	19.87	20.47	20.35	20.95	21.42	18.81	19.40	19.29	19.89	20.36
8H	4H	19.25	19.93	19.72	20.38	20.85	18.87	19.55	19.34	20.00	20.47
	6H	19.79	20.34	20.29	20.84	21.32	19.02	19.57	19.52	20.07	20.55
	8H	20.05	20.55	20.57	21.06	21.55	19.07	19.57	19.59	20.09	20.58
	12H	20.26	20.70	20.77	21.19	21.76	19.11	19.55	19.62	20.04	20.61
12H	4H	19.23	19.83	19.72	20.32	20.79	18.88	19.48	19.36	19.96	20.43
	6H	19.79	20.29	20.31	20.81	21.30	19.06	19.56	19.58	20.07	20.56
	8H	20.11	20.55	20.63	21.05	21.62	19.16	19.60	19.68	20.10	20.67