

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: METALUX

Report Number: P1585798

Luminaire Tested: 14CZSP-SB-54VHE-L845-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585798
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-4)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-SB-54VHE-L845-S
Description: 1x4 CZSP LED Luminaire, 4500K CCT and 5200 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

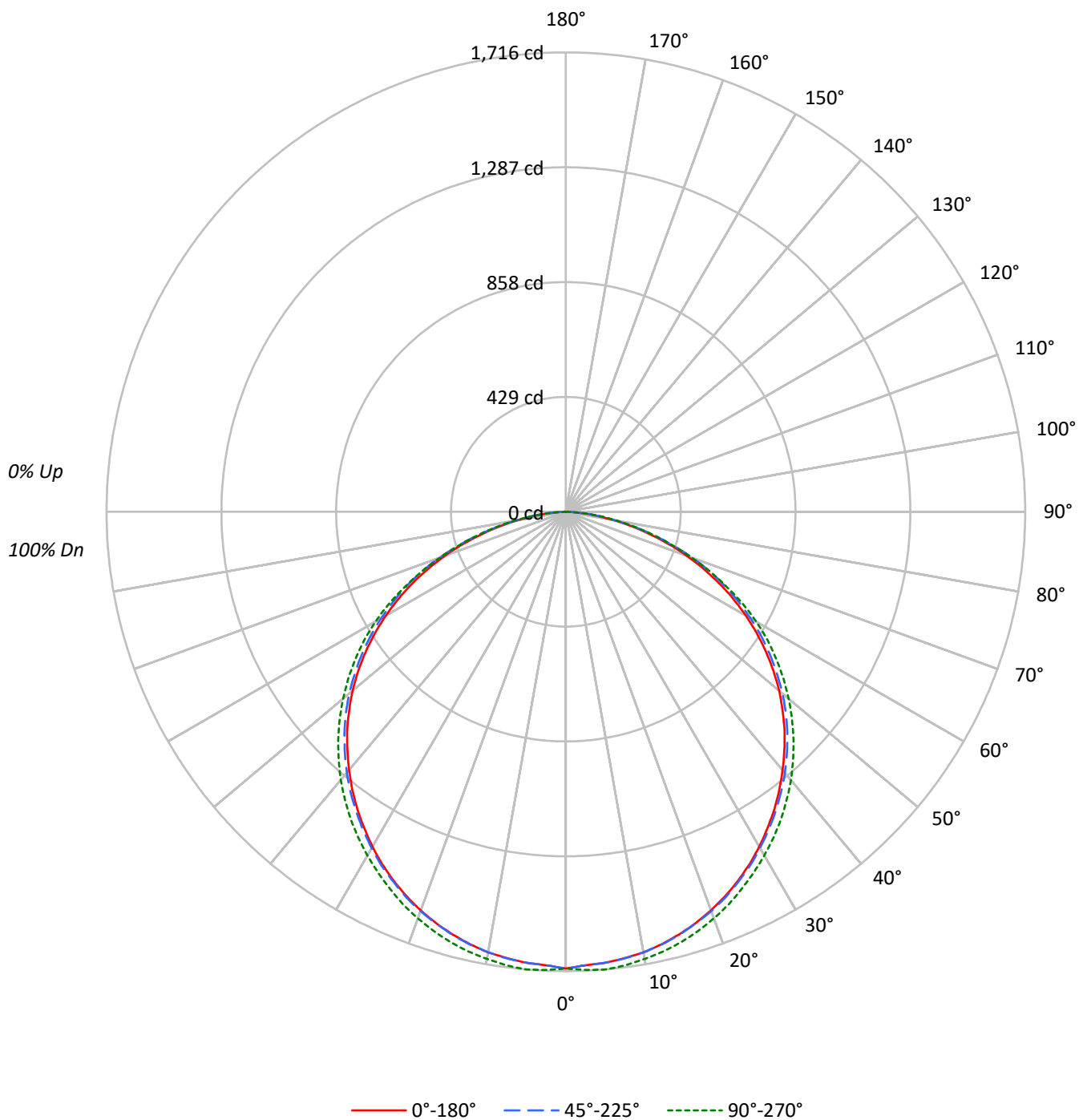
Lumens per Lamp: N/A
Luminaire Lumens: 5035.0 lumens
Efficiency: N/A
Efficacy: 134.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 37.5
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			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	104	99	96	106	102	98	94	97	94	91		93	91	88		90	88	86	84
2	99	90	83	77	96	88	82	77	85	79	75		81	77	73		78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62		72	66	61		69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53		64	57	52		61	56	52	49
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		55	49	45	43
6	70	56	47	40	68	55	46	40	53	46	40		52	45	40		50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35		47	40	35		46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	31		43	36	31		42	36	31	29
9	56	42	34	28	55	42	34	28	41	33	28		40	33	28		39	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26		37	30	25		36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5749	5749	5749
5°	5721	5719	5805
10°	5719	5716	5804
15°	5702	5707	5807
20°	5684	5695	5797
25°	5655	5670	5779
30°	5622	5646	5769
35°	5585	5620	5765
40°	5541	5599	5755
45°	5507	5577	5731
50°	5452	5537	5695
55°	5367	5467	5639
60°	5237	5372	5539
65°	5041	5231	5286
70°	4740	4959	4930
75°	4256	4437	4467
80°	3516	3695	3891
85°	2354	2741	2892

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5731 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.7	3.2
10°-20°	464.8	9.2
20°-30°	707.8	14.1
30°-40°	861.4	17.1
40°-50°	908.1	18.0
50°-60°	836.4	16.6
60°-70°	646.0	12.8
70°-80°	361.5	7.2
80°-90°	87.1	1.7
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°	1334.3	26.5
0°-40°	2195.8	43.6
0°-60°	3940.4	78.3
0°-90°	5035.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5035.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1706	1706	1706	1706	1706	
5°	1692	1715	1691	1693	1716	161
15°	1634	1657	1636	1645	1664	461
25°	1521	1543	1525	1535	1554	701
35°	1358	1378	1366	1383	1402	849
45°	1156	1172	1170	1188	1203	891
55°	914	929	931	950	960	815
65°	632	651	656	662	663	624
75°	327	347	341	340	343	347
85°	61	67	71	79	75	78
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1706.2	1706.2	1706.2	1706.2	1706.2
2.5°	1695.4	1720.1	1695.4	1699.2	1713.1
5°	1691.5	1715.4	1690.8	1693.1	1716.2
7.5°	1681.5	1706.2	1683.0	1686.1	1708.5
10°	1671.5	1693.8	1670.7	1674.6	1696.2
12.5°	1654.5	1677.7	1656.1	1660.7	1682.3
15°	1634.5	1656.8	1636.0	1645.3	1664.5
17.5°	1611.3	1632.9	1612.9	1623.7	1642.2
20°	1585.1	1605.9	1588.2	1595.9	1616.7
22.5°	1554.3	1575.9	1558.9	1565.9	1588.2
25°	1521.1	1542.7	1525.0	1535.0	1554.3
27.5°	1484.9	1505.7	1490.3	1502.6	1519.6
30°	1444.8	1464.9	1451.0	1465.6	1482.6
32.5°	1401.6	1423.2	1409.3	1426.3	1443.3
35°	1357.7	1377.7	1366.2	1383.1	1401.6
37.5°	1309.9	1329.2	1320.7	1338.4	1355.4
40°	1259.8	1281.4	1272.9	1291.4	1308.4
42.5°	1208.1	1228.9	1222.0	1241.3	1255.9
45°	1155.7	1171.9	1170.3	1188.1	1202.7
47.5°	1097.9	1117.9	1114.8	1132.6	1145.7
50°	1040.1	1056.2	1056.2	1073.2	1086.3
52.5°	977.6	993.8	993.8	1013.8	1024.6
55°	913.6	929.0	930.6	949.8	959.9
57.5°	845.8	862.0	865.0	884.3	893.6
60°	777.1	792.6	797.2	816.5	821.9
62.5°	705.4	723.9	726.3	741.7	744.8
65°	632.2	650.7	656.1	662.3	663.0
67.5°	557.4	576.7	582.1	582.1	582.1
70°	481.1	498.8	503.4	500.4	500.4
72.5°	404.0	423.3	421.0	417.9	419.4
75°	326.9	346.9	340.8	340.0	343.1
77.5°	252.9	272.2	262.1	268.3	269.1
80°	181.2	195.8	190.4	199.7	200.5
82.5°	116.4	125.7	127.2	134.9	132.6
85°	60.9	67.1	70.9	79.4	74.8
87.5°	19.3	25.4	23.1	27.0	20.8
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	18.11	19.77	18.48	20.08	20.40	18.33	19.98	18.69	20.30	20.61
	3H	19.93	21.43	20.31	21.76	22.12	20.13	21.63	20.50	21.95	22.31
	4H	20.58	21.99	20.98	22.34	22.71	20.77	22.18	21.16	22.53	22.90
	6H	21.01	22.32	21.42	22.68	23.07	21.22	22.53	21.63	22.89	23.28
	8H	21.12	22.37	21.54	22.76	23.15	21.35	22.60	21.77	22.99	23.39
	12H	21.17	22.37	21.60	22.75	23.18	21.43	22.63	21.86	23.01	23.44
4H	2H	18.79	20.20	19.19	20.55	20.93	18.96	20.37	19.36	20.72	21.09
	3H	20.83	22.02	21.24	22.41	22.81	20.97	22.16	21.38	22.56	22.96
	4H	21.61	22.68	22.04	23.10	23.53	21.73	22.80	22.16	23.22	23.65
	6H	22.16	23.10	22.61	23.54	23.99	22.31	23.24	22.76	23.68	24.14
	8H	22.31	23.18	22.77	23.63	24.09	22.48	23.36	22.94	23.80	24.26
	12H	22.39	23.18	22.87	23.65	24.12	22.60	23.38	23.07	23.86	24.33
8H	4H	21.92	22.80	22.38	23.24	23.70	22.03	22.90	22.49	23.35	23.81
	6H	22.58	23.31	23.07	23.79	24.27	22.71	23.44	23.20	23.92	24.40
	8H	22.78	23.44	23.29	23.94	24.43	22.95	23.60	23.46	24.11	24.59
	12H	22.92	23.50	23.42	23.99	24.55	23.12	23.70	23.63	24.19	24.75
12H	4H	21.95	22.74	22.43	23.21	23.68	22.06	22.84	22.53	23.32	23.79
	6H	22.62	23.28	23.13	23.78	24.27	22.75	23.41	23.26	23.91	24.40
	8H	22.88	23.46	23.39	23.95	24.51	23.04	23.62	23.55	24.11	24.67