

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: P1585774

Luminaire Tested: 14CZSP-SB-54HE-L835-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585774
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-54HE-L835-S
Description: 1x4 CZSP LED Luminaire, 3500K CCT and 5000 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

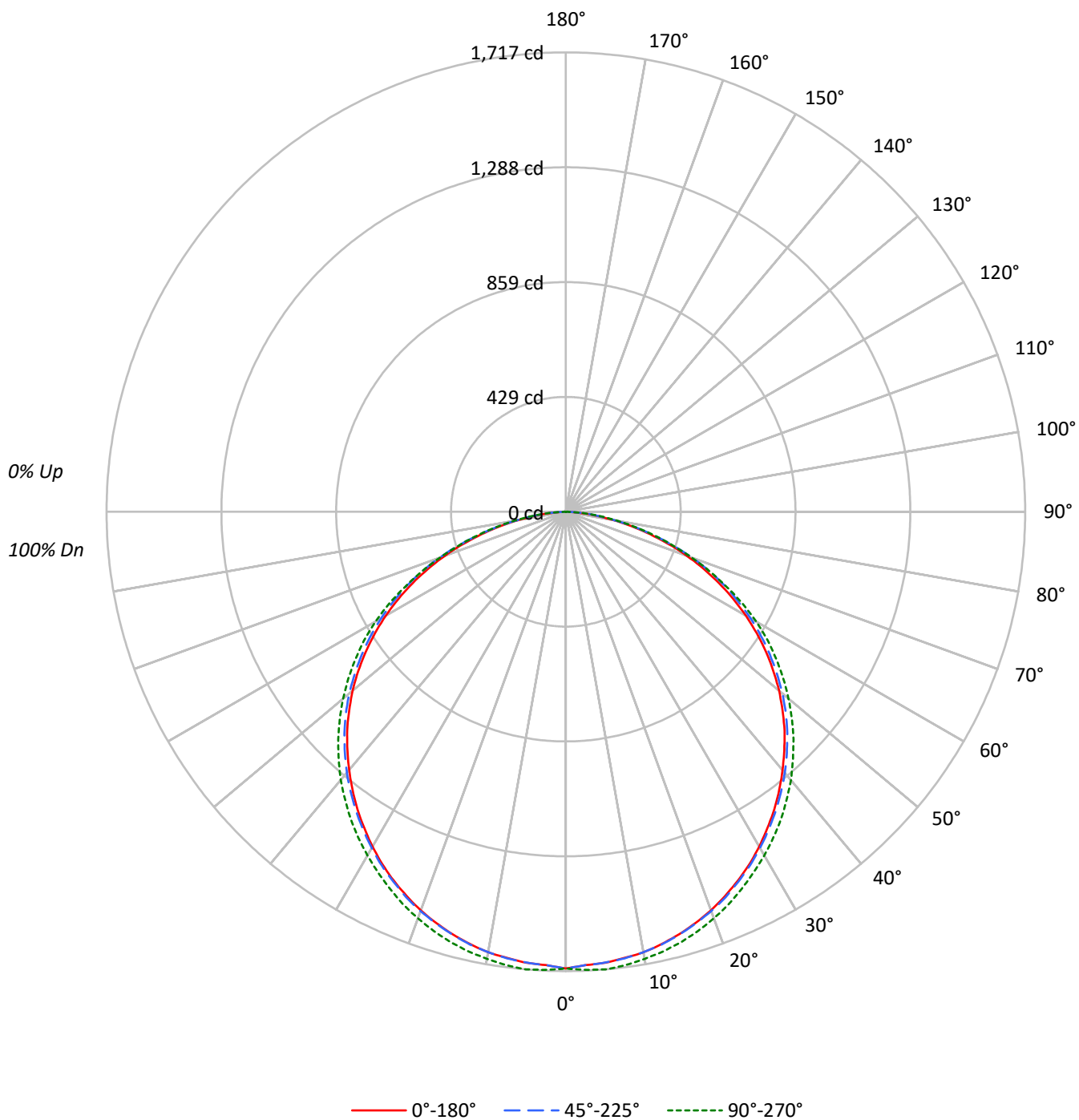
Lumens per Lamp: N/A
Luminaire Lumens: 5037.0 lumens
Efficiency: N/A
Efficacy: 135.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 37.3
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°	5752	5752	5752
5°	5724	5721	5807
10°	5721	5719	5806
15°	5704	5710	5809
20°	5686	5697	5800
25°	5658	5672	5781
30°	5624	5648	5771
35°	5587	5622	5768
40°	5544	5601	5757
45°	5510	5579	5734
50°	5454	5539	5697
55°	5369	5469	5641
60°	5240	5374	5541
65°	5043	5234	5289
70°	4742	4961	4932
75°	4257	4438	4468
80°	3518	3697	3891
85°	2354	2745	2892

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5734 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.8	3.2
10°-20°	465.0	9.2
20°-30°	708.1	14.1
30°-40°	861.8	17.1
40°-50°	908.5	18.0
50°-60°	836.8	16.6
60°-70°	646.3	12.8
70°-80°	361.6	7.2
80°-90°	87.2	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°	1334.9	26.5
0°-40°	2196.6	43.6
0°-60°	3941.9	78.3
0°-90°	5037.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5037.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1707	1707	1707	1707	1707	
5°	1692	1716	1691	1694	1717	161
15°	1635	1658	1637	1646	1665	462
25°	1522	1543	1526	1536	1555	701
35°	1358	1378	1367	1384	1402	850
45°	1156	1172	1171	1189	1203	891
55°	914	929	931	950	960	816
65°	632	651	656	662	663	625
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°	1706.9	1706.9	1706.9	1706.9	1706.9
2.5°	1696.1	1720.7	1696.1	1699.9	1713.8
5°	1692.2	1716.1	1691.4	1693.7	1716.9
7.5°	1682.2	1706.9	1683.7	1686.8	1709.2
10°	1672.1	1694.5	1671.4	1675.2	1696.8
12.5°	1655.2	1678.3	1656.7	1661.3	1682.9
15°	1635.1	1657.5	1636.7	1645.9	1665.2
17.5°	1612.0	1633.6	1613.5	1624.3	1642.8
20°	1585.8	1606.6	1588.8	1596.6	1617.4
22.5°	1554.9	1576.5	1559.5	1566.5	1588.8
25°	1521.7	1543.3	1525.6	1535.6	1554.9
27.5°	1485.5	1506.3	1490.9	1503.2	1520.2
30°	1445.4	1465.4	1451.6	1466.2	1483.2
32.5°	1402.2	1423.8	1409.9	1426.9	1443.8
35°	1358.2	1378.3	1366.7	1383.7	1402.2
37.5°	1310.4	1329.7	1321.2	1339.0	1355.9
40°	1260.3	1281.9	1273.4	1291.9	1308.9
42.5°	1208.6	1229.4	1222.5	1241.8	1256.4
45°	1156.2	1172.4	1170.8	1188.6	1203.2
47.5°	1098.3	1118.4	1115.3	1133.0	1146.1
50°	1040.5	1056.7	1056.7	1073.6	1086.7
52.5°	978.0	994.2	994.2	1014.2	1025.0
55°	914.0	929.4	930.9	950.2	960.3
57.5°	846.1	862.3	865.4	884.7	893.9
60°	777.5	792.9	797.5	816.8	822.2
62.5°	705.7	724.2	726.6	742.0	745.1
65°	632.5	651.0	656.4	662.5	663.3
67.5°	557.6	576.9	582.3	582.3	582.3
70°	481.3	499.0	503.6	500.6	500.6
72.5°	404.2	423.4	421.1	418.0	419.6
75°	327.0	347.1	340.9	340.1	343.2
77.5°	253.0	272.3	262.2	268.4	269.2
80°	181.3	195.9	190.5	199.8	200.5
82.5°	116.5	125.7	127.3	135.0	132.7
85°	60.9	67.1	71.0	79.4	74.8
87.5°	19.3	25.5	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	20.51	21.95	22.31
	4H	20.58	21.99	20.98	22.34	22.71	20.77	22.18	21.17	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	23.16	21.35	22.60	21.78	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	21.10
	3H	20.83	22.02	21.24	22.42	22.81	20.98	22.16	21.38	22.56	22.96
	4H	21.61	22.69	22.04	23.10	23.53	21.73	22.81	22.16	23.22	23.65
	6H	22.16	23.10	22.62	23.54	23.99	22.31	23.25	22.76	23.69	24.14
	8H	22.31	23.19	22.77	23.63	24.09	22.48	23.36	22.94	23.80	24.27
	12H	22.39	23.18	22.87	23.66	24.12	22.60	23.39	23.08	23.86	24.33
8H	4H	21.92	22.80	22.38	23.24	23.70	22.03	22.91	22.49	23.35	23.81
	6H	22.58	23.31	23.07	23.80	24.27	22.71	23.44	23.20	23.93	24.40
	8H	22.79	23.44	23.29	23.94	24.43	22.95	23.60	23.46	24.11	24.59
	12H	22.92	23.50	23.43	23.99	24.55	23.13	23.70	23.63	24.19	24.75
12H	4H	21.95	22.74	22.43	23.21	23.68	22.06	22.85	22.54	23.32	23.79
	6H	22.63	23.28	23.13	23.79	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