

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: P1585778

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585778
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-L845-S
Description: 1x4 CZSP LED Luminaire, 4500K CCT and 5000 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

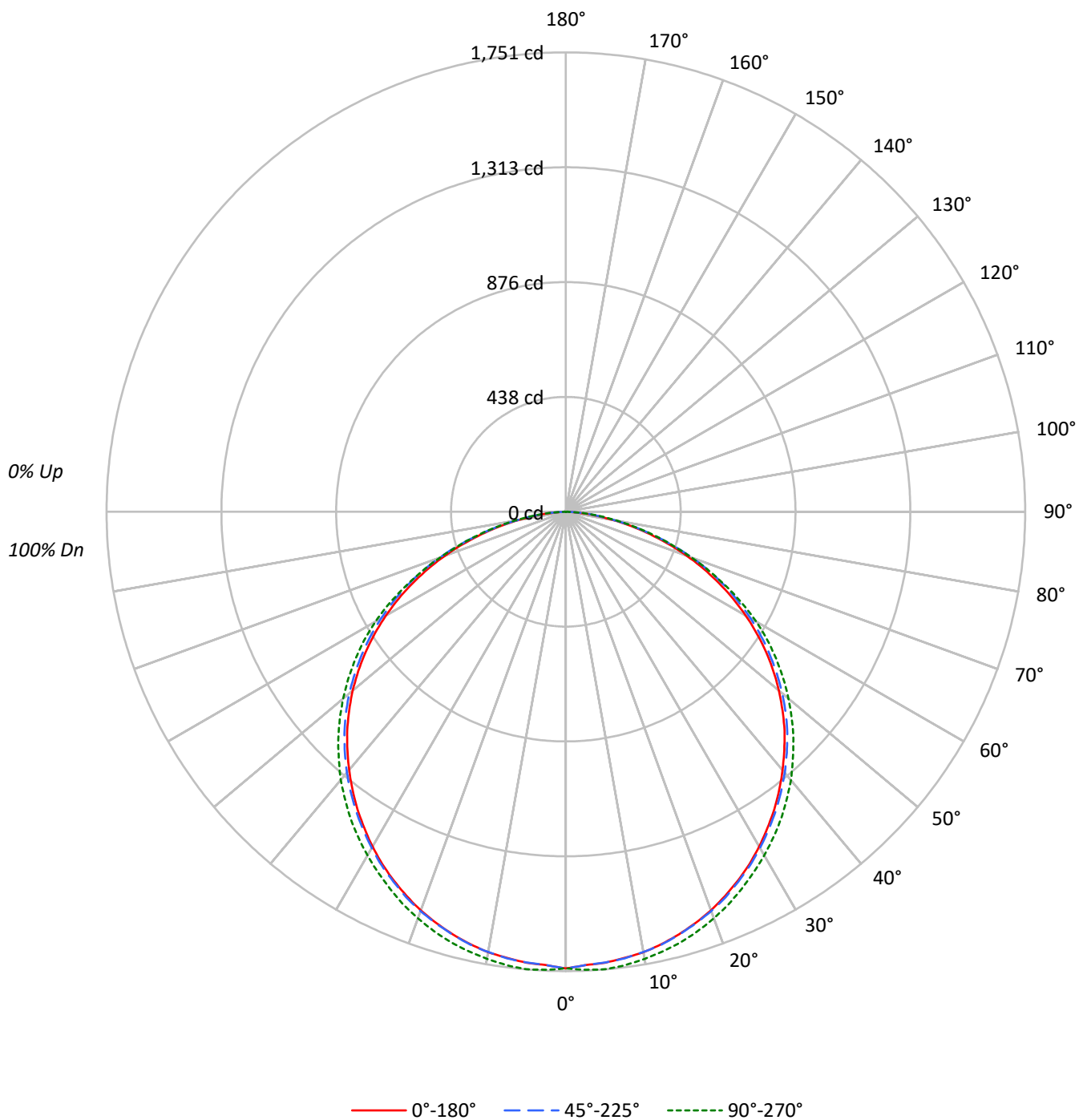
Lumens per Lamp: N/A
Luminaire Lumens: 5136.0 lumens
Efficiency: N/A
Efficacy: 137.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	5864	5864	5864
5°	5836	5834	5921
10°	5834	5831	5920
15°	5816	5822	5923
20°	5798	5809	5914
25°	5769	5784	5895
30°	5734	5759	5884
35°	5697	5733	5881
40°	5653	5711	5870
45°	5618	5689	5847
50°	5561	5648	5809
55°	5475	5576	5752
60°	5342	5480	5649
65°	5142	5336	5392
70°	4834	5059	5028
75°	4342	4525	4557
80°	3586	3770	3968
85°	2401	2799	2950

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5847 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.9	3.2
10°-20°	474.1	9.2
20°-30°	722.0	14.1
30°-40°	878.7	17.1
40°-50°	926.4	18.0
50°-60°	853.2	16.6
60°-70°	659.0	12.8
70°-80°	368.8	7.2
80°-90°	88.9	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°	1361.1	26.5
0°-40°	2239.8	43.6
0°-60°	4019.4	78.3
0°-90°	5136.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5136.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1740	1740	1740	1740	1740	
5°	1726	1750	1725	1727	1751	164
15°	1667	1690	1669	1678	1698	471
25°	1552	1574	1556	1566	1586	715
35°	1385	1405	1394	1411	1430	866
45°	1179	1195	1194	1212	1227	908
55°	932	948	949	969	979	832
65°	645	664	669	676	676	637
75°	334	354	348	347	350	354
85°	62	68	72	81	76	80
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1740.4	1740.4	1740.4	1740.4	1740.4
2.5°	1729.4	1754.6	1729.4	1733.3	1747.5
5°	1725.5	1749.8	1724.7	1727.0	1750.6
7.5°	1715.2	1740.4	1716.8	1720.0	1742.8
10°	1705.0	1727.8	1704.2	1708.2	1730.2
12.5°	1687.7	1711.3	1689.3	1694.0	1716.0
15°	1667.3	1690.1	1668.8	1678.3	1697.9
17.5°	1643.7	1665.7	1645.2	1656.3	1675.1
20°	1616.9	1638.2	1620.1	1627.9	1649.2
22.5°	1585.5	1607.5	1590.2	1597.3	1620.1
25°	1551.7	1573.7	1555.6	1565.8	1585.5
27.5°	1514.7	1535.9	1520.2	1532.8	1550.1
30°	1473.8	1494.2	1480.1	1495.0	1512.3
32.5°	1429.8	1451.8	1437.6	1454.9	1472.2
35°	1384.9	1405.4	1393.6	1410.9	1429.8
37.5°	1336.2	1355.8	1347.2	1365.3	1382.6
40°	1285.1	1307.1	1298.4	1317.3	1334.6
42.5°	1232.4	1253.6	1246.5	1266.2	1281.1
45°	1178.9	1195.4	1193.8	1211.9	1226.9
47.5°	1119.9	1140.3	1137.2	1155.3	1168.7
50°	1060.9	1077.4	1077.4	1094.7	1108.1
52.5°	997.2	1013.7	1013.7	1034.2	1045.2
55°	931.9	947.7	949.2	968.9	979.1
57.5°	862.7	879.2	882.4	902.1	911.5
60°	792.7	808.5	813.2	832.8	838.3
62.5°	719.6	738.5	740.8	756.6	759.7
65°	644.9	663.8	669.3	675.6	676.3
67.5°	568.6	588.3	593.8	593.8	593.8
70°	490.7	508.8	513.5	510.4	510.4
72.5°	412.1	431.8	429.4	426.3	427.8
75°	333.5	353.9	347.6	346.8	350.0
77.5°	258.0	277.6	267.4	273.7	274.5
80°	184.8	199.8	194.3	203.7	204.5
82.5°	118.8	128.2	129.8	137.6	135.3
85°	62.1	68.4	72.4	81.0	76.3
87.5°	19.7	26.0	23.6	27.5	21.2
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	18.18	19.84	18.54	20.15	20.46	18.40	20.05	18.76	20.37	20.68
	3H	20.00	21.50	20.38	21.83	22.19	20.20	21.70	20.57	22.02	22.38
	4H	20.65	22.06	21.05	22.41	22.78	20.84	22.25	21.23	22.59	22.97
	6H	21.08	22.39	21.49	22.75	23.14	21.29	22.60	21.70	22.96	23.35
	8H	21.19	22.44	21.61	22.83	23.22	21.42	22.67	21.84	23.06	23.46
	12H	21.24	22.44	21.67	22.82	23.25	21.50	22.70	21.93	23.08	23.51
4H	2H	18.86	20.27	19.26	20.62	20.99	19.03	20.44	19.43	20.79	21.16
	3H	20.90	22.09	21.31	22.48	22.88	21.04	22.23	21.45	22.63	23.03
	4H	21.68	22.75	22.11	23.17	23.60	21.80	22.87	22.23	23.29	23.72
	6H	22.23	23.17	22.68	23.61	24.06	22.38	23.31	22.83	23.75	24.21
	8H	22.38	23.25	22.84	23.70	24.16	22.55	23.43	23.01	23.87	24.33
	12H	22.46	23.25	22.94	23.72	24.19	22.66	23.45	23.14	23.93	24.40
8H	4H	21.99	22.87	22.45	23.31	23.77	22.10	22.97	22.56	23.42	23.88
	6H	22.65	23.38	23.14	23.86	24.34	22.78	23.51	23.27	23.99	24.47
	8H	22.85	23.51	23.36	24.01	24.50	23.02	23.67	23.52	24.18	24.66
	12H	22.99	23.57	23.49	24.06	24.61	23.19	23.77	23.70	24.26	24.82
12H	4H	22.02	22.81	22.50	23.28	23.75	22.12	22.91	22.60	23.39	23.86
	6H	22.69	23.35	23.20	23.85	24.34	22.82	23.47	23.33	23.98	24.47
	8H	22.95	23.53	23.45	24.02	24.58	23.11	23.69	23.62	24.18	24.74