

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: P1585772

Luminaire Tested: 14CZSP-SB-54HE-L830-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585772
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-L830-S
Description: 1x4 CZSP LED Luminaire, 3000K CCT and 5000 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

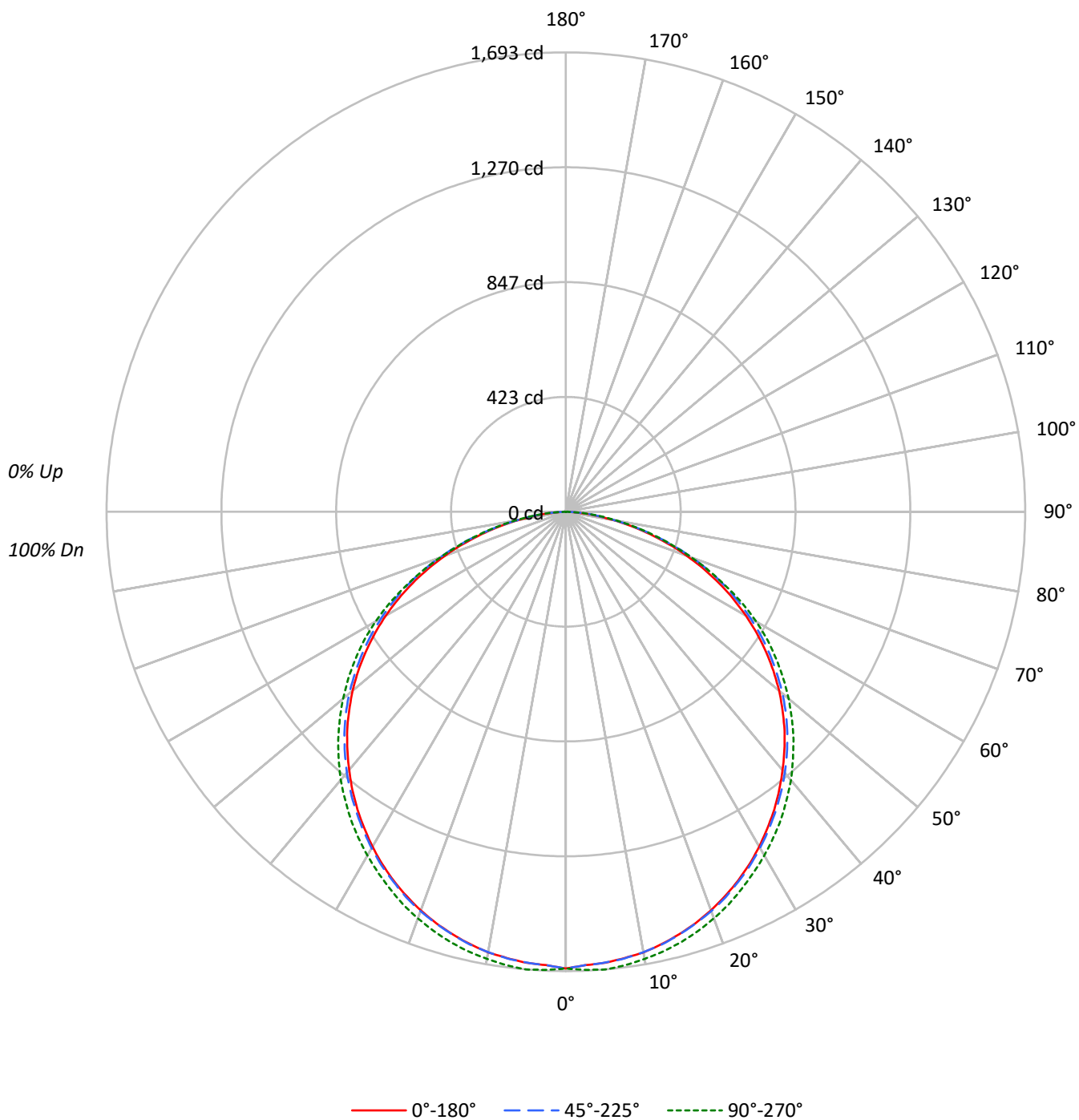
Lumens per Lamp: N/A
Luminaire Lumens: 4967.0 lumens
Efficiency: N/A
Efficacy: 133.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	5671	5671	5671
5°	5644	5642	5726
10°	5642	5639	5725
15°	5625	5630	5728
20°	5607	5618	5719
25°	5579	5593	5701
30°	5546	5569	5691
35°	5510	5544	5688
40°	5467	5523	5677
45°	5433	5502	5654
50°	5378	5462	5617
55°	5295	5393	5563
60°	5167	5300	5464
65°	4973	5160	5215
70°	4676	4892	4863
75°	4199	4377	4407
80°	3468	3646	3836
85°	2324	2706	2853

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5654 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.5	3.2
10°-20°	458.5	9.2
20°-30°	698.3	14.1
30°-40°	849.8	17.1
40°-50°	895.9	18.0
50°-60°	825.2	16.6
60°-70°	637.3	12.8
70°-80°	356.6	7.2
80°-90°	85.9	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°	1316.3	26.5
0°-40°	2166.1	43.6
0°-60°	3887.2	78.3
0°-90°	4967.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4967.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1683	1683	1683	1683	1683	
5°	1669	1692	1668	1670	1693	159
15°	1612	1634	1614	1623	1642	455
25°	1501	1522	1504	1514	1533	692
35°	1339	1359	1348	1364	1383	838
45°	1140	1156	1154	1172	1186	879
55°	901	916	918	937	947	804
65°	624	642	647	653	654	616
75°	322	342	336	335	338	342
85°	60	66	70	78	74	77
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1683.1	1683.1	1683.1	1683.1	1683.1
2.5°	1672.5	1696.8	1672.5	1676.3	1690.0
5°	1668.7	1692.3	1667.9	1670.2	1693.0
7.5°	1658.8	1683.1	1660.3	1663.4	1685.4
10°	1648.9	1671.0	1648.1	1652.0	1673.2
12.5°	1632.2	1655.0	1633.7	1638.3	1659.6
15°	1612.4	1634.5	1613.9	1623.0	1642.1
17.5°	1589.6	1610.9	1591.1	1601.8	1620.0
20°	1563.7	1584.3	1566.8	1574.4	1594.9
22.5°	1533.3	1554.6	1537.9	1544.7	1566.8
25°	1500.6	1521.9	1504.4	1514.3	1533.3
27.5°	1464.9	1485.4	1470.2	1482.3	1499.1
30°	1425.3	1445.1	1431.4	1445.8	1462.6
32.5°	1382.7	1404.0	1390.3	1407.0	1423.8
35°	1339.4	1359.1	1347.7	1364.5	1382.7
37.5°	1292.2	1311.2	1302.9	1320.3	1337.1
40°	1242.8	1264.1	1255.7	1273.9	1290.7
42.5°	1191.8	1212.3	1205.5	1224.5	1239.0
45°	1140.1	1156.1	1154.5	1172.0	1186.5
47.5°	1083.0	1102.8	1099.8	1117.3	1130.2
50°	1026.0	1042.0	1042.0	1058.7	1071.6
52.5°	964.4	980.4	980.4	1000.1	1010.8
55°	901.3	916.5	918.0	937.0	946.9
57.5°	834.3	850.3	853.4	872.4	881.5
60°	766.7	781.9	786.4	805.4	810.8
62.5°	695.9	714.2	716.5	731.7	734.7
65°	623.7	641.9	647.2	653.3	654.1
67.5°	549.9	568.9	574.2	574.2	574.2
70°	474.6	492.1	496.6	493.6	493.6
72.5°	398.5	417.6	415.3	412.2	413.7
75°	322.5	342.3	336.2	335.4	338.5
77.5°	249.5	268.5	258.6	264.7	265.4
80°	178.7	193.2	187.9	197.0	197.7
82.5°	114.8	124.0	125.5	133.1	130.8
85°	60.1	66.2	70.0	78.3	73.8
87.5°	19.0	25.1	22.8	26.6	20.5
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	18.06	19.72	18.43	20.03	20.35	18.28	19.94	18.65	20.25	20.56
	3H	19.89	21.38	20.26	21.71	22.07	20.08	21.58	20.46	21.91	22.27
	4H	20.53	21.94	20.93	22.29	22.67	20.72	22.13	21.12	22.48	22.85
	6H	20.96	22.27	21.37	22.63	23.02	21.17	22.48	21.58	22.85	23.24
	8H	21.07	22.32	21.49	22.71	23.11	21.30	22.55	21.73	22.94	23.34
	12H	21.12	22.32	21.55	22.70	23.13	21.38	22.58	21.81	22.96	23.39
4H	2H	18.74	20.16	19.14	20.50	20.88	18.91	20.33	19.31	20.67	21.05
	3H	20.78	21.97	21.19	22.37	22.77	20.93	22.11	21.34	22.51	22.91
	4H	21.56	22.64	22.00	23.05	23.48	21.69	22.76	22.12	23.17	23.61
	6H	22.11	23.05	22.57	23.49	23.95	22.26	23.20	22.71	23.64	24.09
	8H	22.26	23.14	22.72	23.58	24.04	22.43	23.31	22.89	23.75	24.22
	12H	22.34	23.13	22.82	23.61	24.08	22.55	23.34	23.03	23.81	24.28
8H	4H	21.87	22.75	22.33	23.19	23.66	21.98	22.86	22.44	23.30	23.76
	6H	22.53	23.26	23.02	23.75	24.22	22.66	23.39	23.15	23.88	24.35
	8H	22.74	23.39	23.24	23.90	24.38	22.90	23.55	23.41	24.06	24.54
	12H	22.87	23.45	23.38	23.94	24.50	23.08	23.65	23.58	24.14	24.70
12H	4H	21.90	22.69	22.38	23.17	23.63	22.01	22.80	22.49	23.27	23.74
	6H	22.58	23.23	23.08	23.74	24.22	22.70	23.36	23.21	23.86	24.35
	8H	22.83	23.41	23.34	23.90	24.46	22.99	23.57	23.50	24.06	24.62