

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: P1585739

Luminaire Tested: 14CZSP-SB-49HE-L845

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585739
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-3)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-SB-49HE-L845
Description: 1x4 CZSP LED Luminaire, 4500K CCT and 4500 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

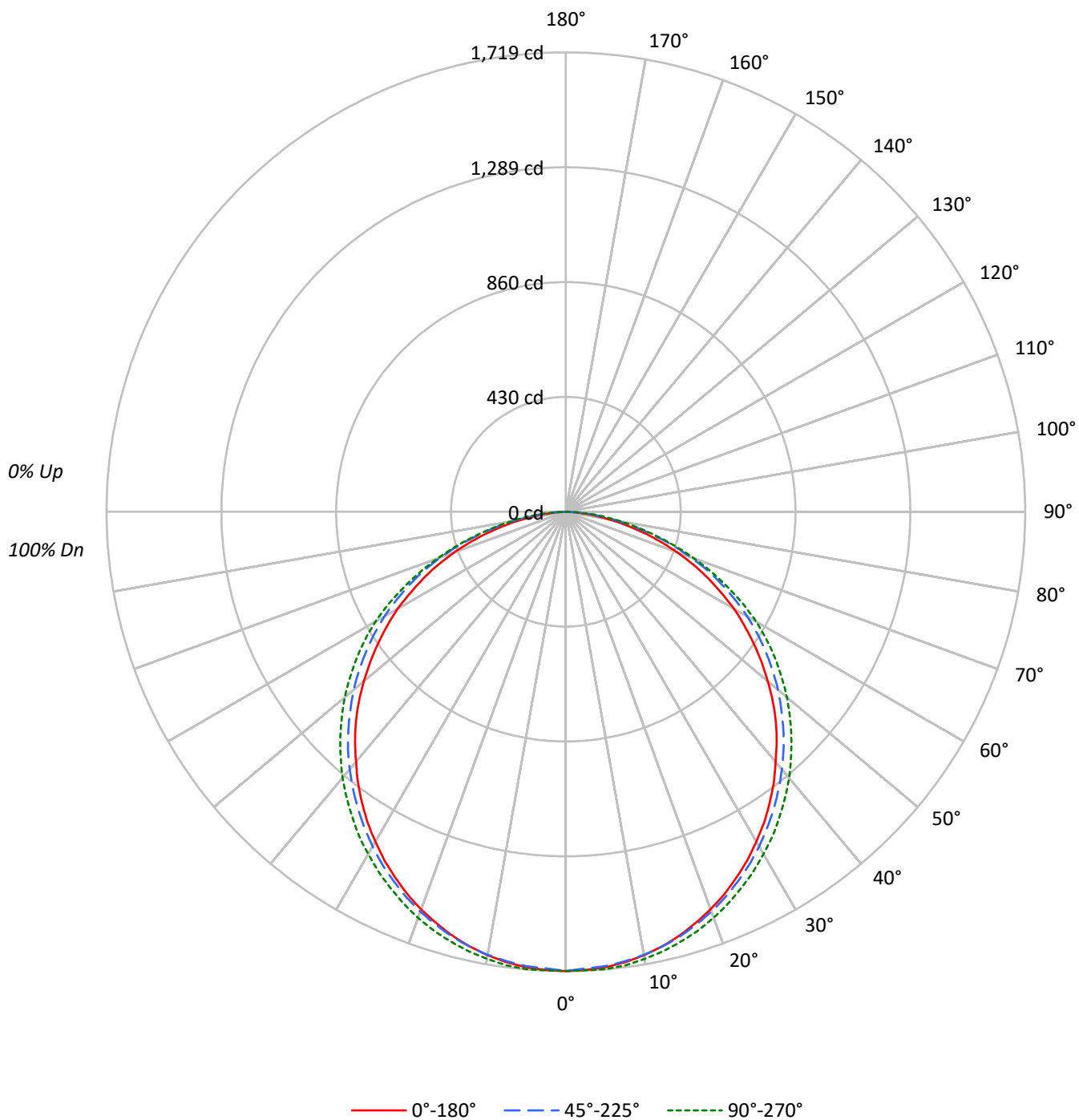
Lumens per Lamp: N/A
Luminaire Lumens: 4965.0 lumens
Efficiency: N/A
Efficacy: 150.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 33.1
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	78	96	88	82	77	85	79	75		82	77	73		79	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63		72	66	61		69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53		64	58	52		62	56	52	50
5	75	62	53	47	73	61	53	46	59	52	46		57	51	45		55	50	45	43
6	70	56	47	41	68	55	47	40	53	46	40		52	45	40		50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	35		47	40	35		46	40	35	33
8	60	46	38	32	58	46	38	32	44	37	32		43	36	31		42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28		40	33	28		39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5791	5791	5791
5°	5786	5772	5811
10°	5765	5761	5812
15°	5728	5741	5808
20°	5678	5711	5798
25°	5616	5669	5775
30°	5546	5627	5755
35°	5469	5581	5734
40°	5373	5534	5719
45°	5296	5483	5688
50°	5170	5432	5661
55°	5038	5361	5617
60°	4901	5282	5543
65°	4682	5143	5332
70°	4368	4911	5030
75°	3891	4451	4581
80°	3178	3858	4052
85°	2103	3070	3290

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5688 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.8	3.3
10°-20°	466.3	9.4
20°-30°	705.9	14.2
30°-40°	852.1	17.2
40°-50°	889.8	17.9
50°-60°	814.0	16.4
60°-70°	629.3	12.7
70°-80°	356.3	7.2
80°-90°	88.5	1.8
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°	1335.0	26.9
0°-40°	2187.0	44.0
0°-60°	3890.9	78.4
0°-90°	4965.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4965.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1719	1719	1719	1719	1719	
5°	1711	1723	1706	1708	1718	162
15°	1642	1656	1646	1654	1665	463
25°	1510	1530	1525	1539	1553	696
35°	1330	1348	1357	1380	1394	832
45°	1111	1133	1151	1180	1194	856
55°	858	883	913	941	956	767
65°	587	612	645	664	669	580
75°	299	325	342	350	352	317
85°	54	63	79	83	85	70
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1718.6	1718.6	1718.6	1718.6	1718.6
2.5°	1716.5	1728.6	1710.0	1713.6	1717.2
5°	1710.7	1722.9	1706.4	1707.9	1717.9
7.5°	1700.0	1713.6	1696.4	1699.3	1711.4
10°	1685.0	1698.6	1683.6	1686.4	1698.6
12.5°	1665.7	1679.3	1666.4	1670.7	1684.3
15°	1642.1	1656.4	1645.6	1653.5	1665.0
17.5°	1613.5	1631.3	1619.9	1632.1	1643.5
20°	1583.4	1601.3	1592.7	1603.5	1617.0
22.5°	1549.1	1567.0	1560.5	1572.0	1587.0
25°	1510.5	1529.8	1524.8	1539.1	1553.4
27.5°	1470.4	1489.0	1487.6	1503.3	1518.3
30°	1425.4	1445.4	1446.1	1464.7	1479.0
32.5°	1380.3	1398.2	1402.5	1423.2	1439.7
35°	1329.5	1348.1	1356.7	1379.6	1393.9
37.5°	1278.0	1298.8	1308.1	1333.1	1348.1
40°	1221.5	1245.1	1258.0	1284.5	1300.2
42.5°	1167.9	1189.4	1206.5	1233.0	1247.3
45°	1111.4	1132.9	1150.7	1180.1	1193.6
47.5°	1050.6	1074.2	1093.5	1122.1	1137.1
50°	986.2	1012.0	1036.3	1064.2	1079.9
52.5°	922.6	947.6	975.5	1002.7	1018.4
55°	857.5	883.3	912.6	941.2	956.2
57.5°	791.7	817.5	849.6	875.4	891.1
60°	727.3	750.9	783.8	809.6	822.5
62.5°	654.4	681.6	715.2	740.9	748.1
65°	587.2	611.5	645.1	664.4	668.7
67.5°	515.7	540.0	573.6	584.3	590.7
70°	443.4	469.2	498.5	505.6	510.6
72.5°	370.5	396.9	419.8	427.0	431.3
75°	298.9	324.7	341.9	350.4	351.9
77.5°	229.6	253.2	268.9	278.9	278.9
80°	163.8	181.7	198.8	209.6	208.8
82.5°	104.4	118.0	135.9	143.8	148.8
85°	54.4	62.9	79.4	83.0	85.1
87.5°	17.2	22.2	28.6	23.6	22.9
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	17.78	19.43	18.15	19.75	20.06	18.32	19.97	18.69	20.29	20.60
	3H	19.55	21.05	19.93	21.37	21.73	20.18	21.68	20.56	22.00	22.36
	4H	20.18	21.59	20.58	21.93	22.31	20.86	22.26	21.25	22.61	22.99
	6H	20.58	21.89	20.99	22.25	22.64	21.34	22.65	21.75	23.01	23.40
	8H	20.68	21.93	21.11	22.32	22.72	21.50	22.74	21.92	23.13	23.53
	12H	20.73	21.93	21.16	22.31	22.74	21.59	22.79	22.02	23.17	23.60
4H	2H	18.52	19.93	18.92	20.28	20.65	18.94	20.35	19.34	20.70	21.07
	3H	20.51	21.70	20.92	22.09	22.49	21.02	22.20	21.43	22.60	23.00
	4H	21.26	22.33	21.69	22.74	23.18	21.82	22.89	22.25	23.30	23.74
	6H	21.78	22.72	22.23	23.16	23.61	22.44	23.37	22.89	23.81	24.27
	8H	21.92	22.79	22.38	23.23	23.70	22.64	23.52	23.10	23.96	24.42
	12H	21.99	22.78	22.47	23.26	23.72	22.78	23.57	23.26	24.04	24.51
8H	4H	21.62	22.49	22.08	22.93	23.40	22.11	22.99	22.57	23.43	23.89
	6H	22.25	22.98	22.74	23.46	23.94	22.84	23.57	23.34	24.06	24.53
	8H	22.44	23.10	22.95	23.60	24.09	23.12	23.77	23.63	24.28	24.76
	12H	22.57	23.15	23.08	23.64	24.20	23.32	23.90	23.83	24.39	24.95
12H	4H	21.66	22.45	22.14	22.92	23.39	22.14	22.92	22.62	23.40	23.87
	6H	22.31	22.97	22.82	23.47	23.96	22.89	23.54	23.39	24.05	24.53
	8H	22.56	23.14	23.07	23.63	24.19	23.21	23.79	23.72	24.28	24.84