

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: P1584333

Luminaire Tested: 14CZSP-49HE-L830

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584333
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2602-698-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-49HE-L830
Description: 1x4 CZSP LED Luminaire, 3000K CCT and 4500 lumens, 80CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

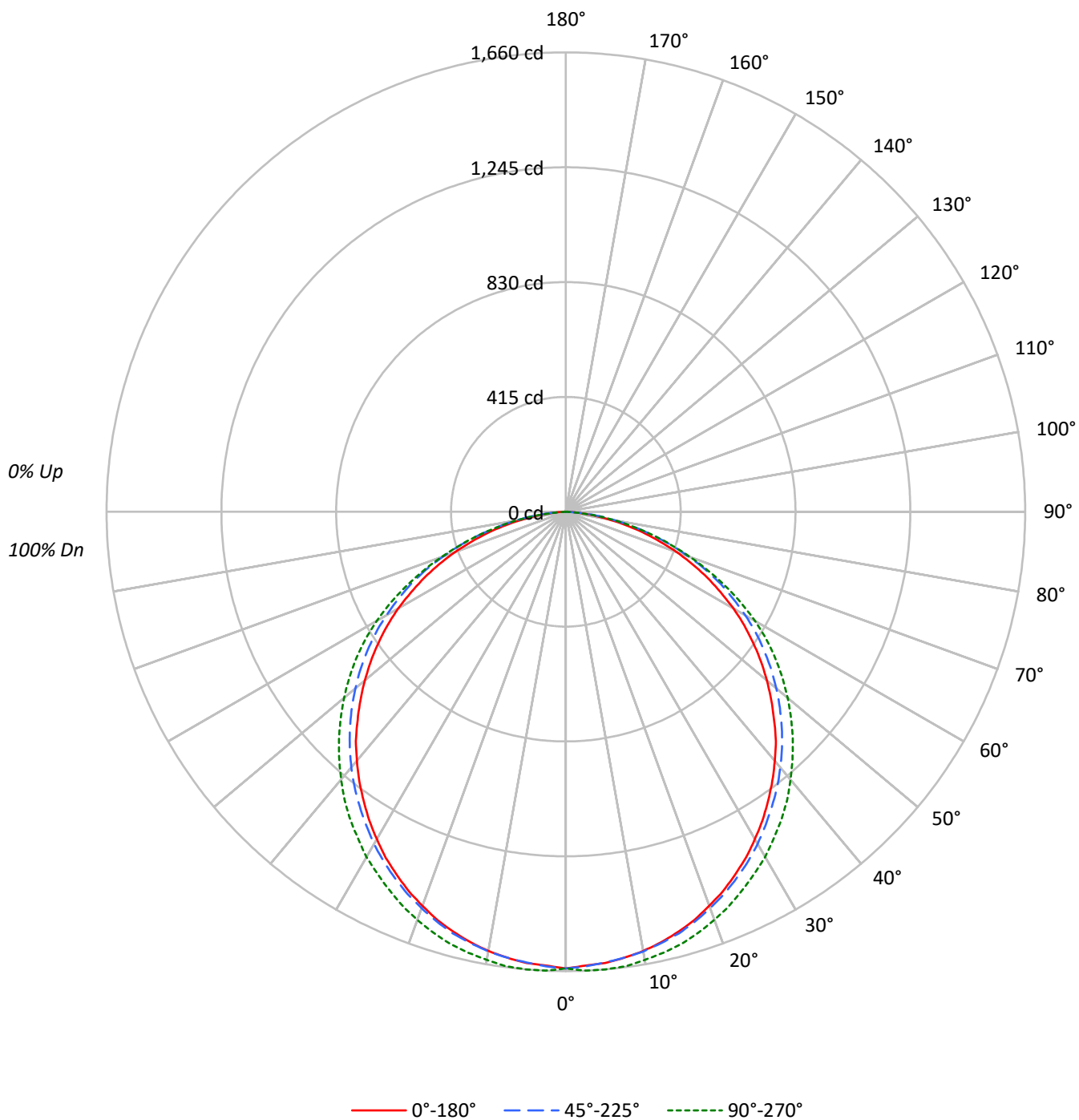
Lumens per Lamp: N/A
Luminaire Lumens: 4754.0 lumens
Efficiency: N/A
Efficacy: 143.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	104	100	96	106	102	98	94	97	94	91		94	91	88		90
2	99	90	84	78	96	89	82	77	85	80	75		82	77	73		79
3	90	79	71	65	87	78	70	64	75	68	63		72	66	62		69
4	82	70	61	55	80	69	61	54	66	59	53		64	58	53		62
5	76	63	54	47	73	61	53	47	59	52	46		57	51	46		55
6	70	56	47	41	68	55	47	41	54	46	40		52	45	40		50
7	65	51	42	36	63	50	42	36	49	41	36		47	40	35		46
8	60	47	38	32	59	46	38	32	44	37	32		43	36	32		42
9	56	43	34	29	55	42	34	29	41	34	29		40	33	28		39
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5561	5561	5561
5°	5535	5530	5614
10°	5514	5519	5626
15°	5481	5503	5638
20°	5433	5467	5628
25°	5379	5431	5610
30°	5315	5394	5605
35°	5242	5344	5587
40°	5168	5304	5557
45°	5073	5258	5524
50°	4970	5205	5483
55°	4857	5140	5432
60°	4713	5048	5321
65°	4498	4919	5080
70°	4195	4639	4715
75°	3743	4188	4229
80°	3047	3528	3499
85°	1983	2463	1921

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5524 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.3	3.3
10°-20°	447.9	9.4
20°-30°	678.4	14.3
30°-40°	819.5	17.2
40°-50°	856.0	18.0
50°-60°	783.9	16.5
60°-70°	602.3	12.7
70°-80°	335.4	7.1
80°-90°	74.3	1.6
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°	1282.6	27.0
0°-40°	2102.1	44.2
0°-60°	3742.0	78.7
0°-90°	4754.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4754.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1650	1650	1650	1650	1650	
5°	1636	1654	1635	1644	1660	155
15°	1571	1587	1577	1593	1616	443
25°	1447	1464	1461	1483	1509	667
35°	1274	1293	1299	1330	1358	798
45°	1064	1088	1103	1136	1159	822
55°	827	853	875	906	925	739
65°	564	594	617	629	637	557
75°	288	317	322	322	325	305
85°	51	61	64	53	50	67
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1650.4	1650.4	1650.4	1650.4	1650.4
2.5°	1641.1	1656.6	1644.2	1648.8	1659.7
5°	1636.4	1653.5	1634.9	1644.2	1659.7
7.5°	1625.5	1641.1	1625.5	1636.4	1656.6
10°	1611.5	1628.6	1613.1	1624.0	1644.2
12.5°	1592.9	1606.9	1596.0	1611.5	1631.8
15°	1571.1	1586.7	1577.4	1592.9	1616.2
17.5°	1546.3	1560.3	1552.5	1572.7	1594.5
20°	1515.2	1530.7	1524.5	1544.7	1569.6
22.5°	1484.1	1499.7	1495.0	1515.2	1541.6
25°	1446.8	1463.9	1460.8	1482.6	1509.0
27.5°	1409.5	1426.6	1425.1	1449.9	1474.8
30°	1366.0	1383.1	1386.2	1412.6	1440.6
32.5°	1322.5	1341.1	1342.7	1372.2	1398.6
35°	1274.3	1293.0	1299.2	1330.3	1358.2
37.5°	1226.1	1244.8	1254.1	1283.6	1313.2
40°	1174.9	1195.1	1205.9	1237.0	1263.4
42.5°	1123.6	1143.8	1156.2	1187.3	1212.2
45°	1064.5	1087.8	1103.4	1136.0	1159.3
47.5°	1007.0	1031.9	1049.0	1080.1	1103.4
50°	948.0	974.4	993.0	1024.1	1045.9
52.5°	888.9	916.9	935.5	965.1	986.8
55°	826.8	853.2	874.9	906.0	924.7
57.5°	764.6	791.0	814.3	842.3	859.4
60°	699.3	727.3	749.1	777.0	789.5
62.5°	630.9	660.5	682.2	704.0	714.9
65°	564.1	593.6	617.0	629.4	637.2
67.5°	495.7	525.3	547.0	553.2	557.9
70°	425.8	455.3	470.9	474.0	478.6
72.5°	355.9	385.4	397.8	397.8	399.4
75°	287.5	317.0	321.7	321.7	324.8
77.5°	220.7	247.1	250.2	250.2	250.2
80°	157.0	177.2	181.8	181.8	180.3
82.5°	99.5	113.4	121.2	115.0	111.9
85°	51.3	60.6	63.7	52.8	49.7
87.5°	15.5	18.6	15.5	9.3	7.8
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	17.71	19.35	18.07	19.67	19.98	18.21	19.86	18.58	20.17	20.49
	3H	19.48	20.97	19.85	21.29	21.65	20.01	21.50	20.39	21.83	22.19
	4H	20.10	21.50	20.50	21.85	22.23	20.64	22.04	21.04	22.39	22.77
	6H	20.50	21.80	20.91	22.17	22.56	21.06	22.36	21.47	22.73	23.12
	8H	20.60	21.85	21.03	22.23	22.63	21.17	22.41	21.59	22.80	23.20
	12H	20.65	21.84	21.08	22.22	22.65	21.21	22.40	21.64	22.78	23.21
4H	2H	18.43	19.83	18.82	20.18	20.55	18.82	20.23	19.22	20.57	20.95
	3H	20.42	21.60	20.83	21.99	22.39	20.83	22.01	21.24	22.41	22.81
	4H	21.18	22.24	21.61	22.65	23.09	21.59	22.65	22.02	23.06	23.50
	6H	21.70	22.63	22.15	23.07	23.52	22.13	23.06	22.58	23.50	23.95
	8H	21.83	22.70	22.29	23.14	23.61	22.27	23.14	22.73	23.58	24.04
	12H	21.91	22.69	22.38	23.16	23.63	22.33	23.11	22.81	23.59	24.06
8H	4H	21.51	22.38	21.97	22.82	23.29	21.87	22.74	22.33	23.18	23.65
	6H	22.14	22.87	22.64	23.35	23.83	22.51	23.24	23.01	23.72	24.20
	8H	22.34	22.98	22.84	23.49	23.97	22.71	23.36	23.22	23.86	24.35
	12H	22.46	23.03	22.96	23.52	24.08	22.81	23.39	23.32	23.88	24.44
12H	4H	21.54	22.32	22.02	22.80	23.27	21.90	22.68	22.38	23.15	23.62
	6H	22.19	22.84	22.70	23.35	23.83	22.55	23.20	23.06	23.71	24.19
	8H	22.44	23.01	22.94	23.50	24.06	22.80	23.37	23.30	23.86	24.42