

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: P1584299

Luminaire Tested: 14CZSP-43HE-L845

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584299
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-43HE-L845
Description: 1x4 CZSP LED Luminaire, 4500K CCT and 4000 lumens, 80CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

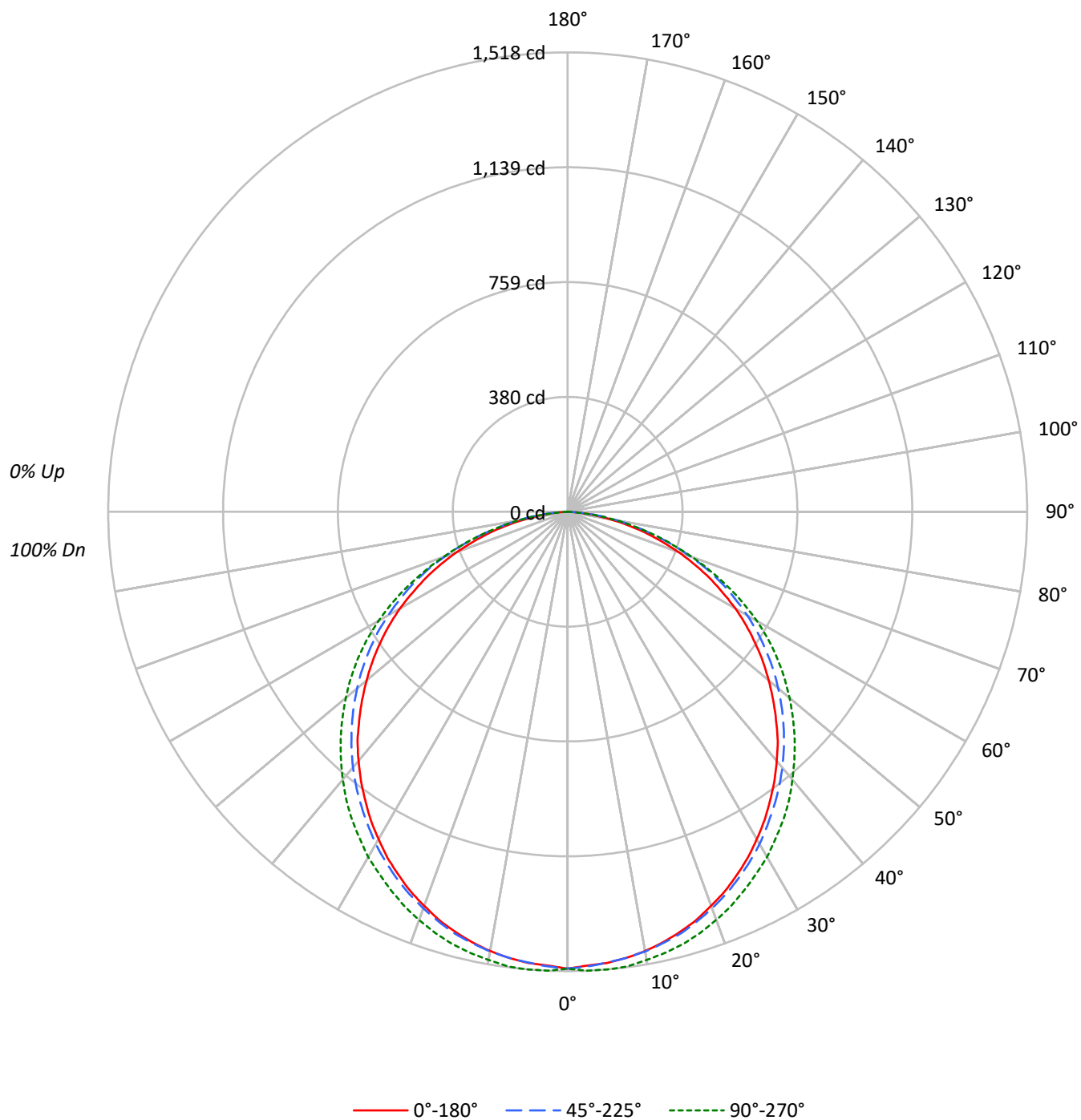
Lumens per Lamp: N/A
Luminaire Lumens: 4348.0 lumens
Efficiency: N/A
Efficacy: 150.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 28.9
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°	5086	5086	5086
5°	5063	5057	5135
10°	5043	5048	5145
15°	5013	5033	5157
20°	4969	5000	5147
25°	4920	4968	5131
30°	4861	4933	5127
35°	4794	4888	5110
40°	4726	4852	5083
45°	4639	4809	5053
50°	4545	4761	5015
55°	4442	4701	4968
60°	4310	4617	4866
65°	4113	4499	4646
70°	3836	4243	4313
75°	3423	3830	3868
80°	2787	3227	3200
85°	1813	2254	1759

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5053 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.0	3.3
10°-20°	409.6	9.4
20°-30°	620.5	14.3
30°-40°	749.5	17.2
40°-50°	782.9	18.0
50°-60°	717.0	16.5
60°-70°	550.9	12.7
70°-80°	306.7	7.1
80°-90°	67.9	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°	1173.1	27.0
0°-40°	1922.6	44.2
0°-60°	3422.5	78.7
0°-90°	4348.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4348.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1510	1510	1510	1510	1510	
5°	1497	1512	1495	1504	1518	142
15°	1437	1451	1443	1457	1478	405
25°	1323	1339	1336	1356	1380	610
35°	1166	1182	1188	1217	1242	729
45°	974	995	1009	1039	1060	752
55°	756	780	800	829	846	676
65°	516	543	564	576	583	510
75°	263	290	294	294	297	279
85°	47	55	58	48	46	61
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1509.5	1509.5	1509.5	1509.5	1509.5
2.5°	1500.9	1515.1	1503.8	1508.0	1518.0
5°	1496.7	1512.3	1495.2	1503.8	1518.0
7.5°	1486.7	1500.9	1486.7	1496.7	1515.1
10°	1473.9	1489.6	1475.3	1485.3	1503.8
12.5°	1456.9	1469.7	1459.7	1473.9	1492.4
15°	1437.0	1451.2	1442.7	1456.9	1478.2
17.5°	1414.2	1427.0	1419.9	1438.4	1458.3
20°	1385.8	1400.0	1394.3	1412.8	1435.5
22.5°	1357.4	1371.6	1367.3	1385.8	1410.0
25°	1323.3	1338.9	1336.1	1355.9	1380.1
27.5°	1289.1	1304.8	1303.4	1326.1	1348.8
30°	1249.3	1265.0	1267.8	1292.0	1317.6
32.5°	1209.6	1226.6	1228.0	1255.0	1279.2
35°	1165.5	1182.5	1188.2	1216.7	1242.2
37.5°	1121.4	1138.5	1147.0	1174.0	1201.0
40°	1074.5	1093.0	1103.0	1131.4	1155.5
42.5°	1027.6	1046.1	1057.5	1085.9	1108.6
45°	973.6	994.9	1009.1	1039.0	1060.3
47.5°	921.0	943.8	959.4	987.8	1009.1
50°	867.0	891.2	908.2	936.7	956.6
52.5°	813.0	838.6	855.6	882.6	902.5
55°	756.1	780.3	800.2	828.6	845.7
57.5°	699.3	723.5	744.8	770.4	786.0
60°	639.6	665.2	685.1	710.7	722.0
62.5°	577.1	604.1	624.0	643.9	653.8
65°	515.9	542.9	564.3	575.6	582.7
67.5°	453.4	480.4	500.3	506.0	510.3
70°	389.4	416.4	430.7	433.5	437.8
72.5°	325.5	352.5	363.9	363.9	365.3
75°	262.9	290.0	294.2	294.2	297.1
77.5°	201.8	226.0	228.8	228.8	228.8
80°	143.6	162.0	166.3	166.3	164.9
82.5°	91.0	103.8	110.9	105.2	102.3
85°	46.9	55.4	58.3	48.3	45.5
87.5°	14.2	17.1	14.2	8.5	7.1
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	17.40	19.04	17.76	19.36	19.67	17.90	19.55	18.27	19.86	20.18
	3H	19.17	20.66	19.54	20.98	21.34	19.70	21.19	20.08	21.52	21.88
	4H	19.79	21.19	20.19	21.54	21.92	20.33	21.73	20.73	22.08	22.46
	6H	20.19	21.49	20.60	21.86	22.25	20.75	22.05	21.16	22.42	22.81
	8H	20.29	21.53	20.72	21.92	22.32	20.86	22.10	21.28	22.49	22.89
	12H	20.34	21.53	20.77	21.91	22.34	20.90	22.09	21.33	22.47	22.90
4H	2H	18.12	19.52	18.52	19.87	20.24	18.51	19.92	18.91	20.26	20.64
	3H	20.11	21.29	20.52	21.68	22.08	20.53	21.70	20.93	22.10	22.50
	4H	20.87	21.93	21.30	22.34	22.78	21.28	22.34	21.71	22.75	23.19
	6H	21.39	22.32	21.84	22.76	23.21	21.82	22.75	22.27	23.19	23.64
	8H	21.52	22.39	21.98	22.83	23.30	21.96	22.83	22.42	23.27	23.73
	12H	21.60	22.38	22.07	22.85	23.32	22.02	22.80	22.50	23.28	23.75
8H	4H	21.20	22.07	21.66	22.51	22.98	21.56	22.43	22.02	22.87	23.34
	6H	21.83	22.56	22.33	23.04	23.52	22.20	22.93	22.70	23.41	23.89
	8H	22.03	22.67	22.53	23.18	23.66	22.40	23.05	22.91	23.55	24.04
	12H	22.15	22.72	22.65	23.21	23.77	22.50	23.08	23.01	23.57	24.13
12H	4H	21.23	22.01	21.71	22.49	22.96	21.59	22.37	22.07	22.84	23.31
	6H	21.88	22.53	22.39	23.04	23.52	22.24	22.89	22.75	23.40	23.88
	8H	22.13	22.70	22.63	23.19	23.75	22.49	23.06	22.99	23.55	24.11