

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: P1584378

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584378
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-54HE-L845-S
Description: 1x4 CZSP LED Luminaire, 4500K CCT and 5000 lumens, 80CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

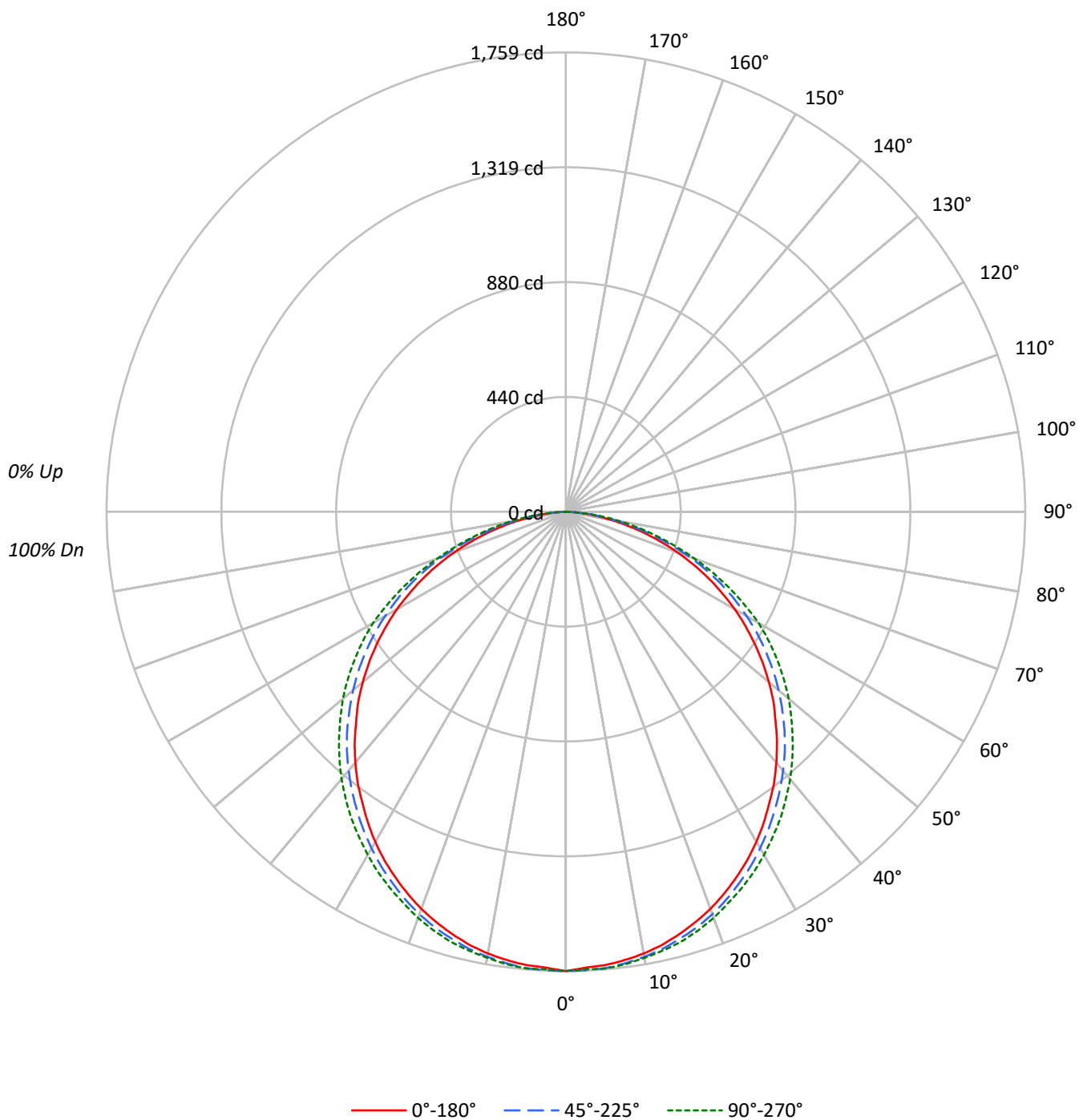
Lumens per Lamp: N/A
Luminaire Lumens: 5085.0 lumens
Efficiency: N/A
Efficacy: 136.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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	100	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	80	75		82	77	73		79	75	72	69
3	90	79	71	64	87	78	70	64	75	68	63		72	66	62		69	65	60	58
4	82	70	61	54	80	69	60	54	66	59	53		64	58	52		62	56	52	50
5	76	63	53	47	73	61	53	46	59	52	46		57	51	45		55	50	45	43
6	70	56	47	41	68	55	47	41	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	59	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°	5927	5927	5927
5°	5894	5932	5937
10°	5877	5921	5934
15°	5843	5903	5945
20°	5803	5880	5934
25°	5743	5835	5916
30°	5679	5790	5903
35°	5588	5739	5893
40°	5515	5692	5877
45°	5411	5643	5853
50°	5320	5576	5842
55°	5193	5496	5804
60°	5034	5387	5745
65°	4810	5240	5508
70°	4484	4948	5169
75°	4005	4463	4717
80°	3283	3763	4125
85°	2200	2749	3066

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5853 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.6	3.3
10°-20°	477.6	9.4
20°-30°	723.1	14.2
30°-40°	873.3	17.2
40°-50°	912.6	17.9
50°-60°	836.3	16.4
60°-70°	645.6	12.7
70°-80°	363.1	7.1
80°-90°	86.9	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°	1367.3	26.9
0°-40°	2240.6	44.1
0°-60°	3989.5	78.5
0°-90°	5085.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5085.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1759	1759	1759	1759	1759	
5°	1742	1755	1754	1755	1755	166
15°	1675	1688	1692	1699	1704	473
25°	1545	1558	1570	1578	1591	712
35°	1358	1376	1395	1414	1433	851
45°	1135	1158	1184	1208	1228	877
55°	884	907	936	965	988	790
65°	603	630	657	683	691	596
75°	308	336	343	357	362	326
85°	57	65	71	78	79	73
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1758.9	1758.9	1758.9	1758.9	1758.9
2.5°	1746.9	1760.4	1757.4	1761.9	1753.7
5°	1742.4	1755.2	1753.7	1755.2	1755.2
7.5°	1731.2	1744.7	1743.9	1746.2	1747.7
10°	1717.7	1730.5	1730.5	1732.7	1734.2
12.5°	1699.0	1712.5	1714.0	1717.7	1720.7
15°	1675.1	1688.5	1692.3	1699.0	1704.3
17.5°	1648.1	1662.4	1668.3	1675.1	1681.8
20°	1618.2	1630.9	1639.9	1645.1	1654.9
22.5°	1583.0	1597.2	1607.0	1612.2	1622.7
25°	1544.8	1558.3	1569.5	1577.8	1591.2
27.5°	1504.4	1517.9	1531.4	1541.1	1556.8
30°	1459.5	1473.7	1488.0	1502.9	1517.1
32.5°	1410.9	1427.3	1443.1	1459.5	1475.2
35°	1358.5	1375.7	1395.1	1413.9	1432.6
37.5°	1309.8	1325.5	1345.8	1366.0	1384.7
40°	1253.7	1270.9	1294.1	1316.6	1336.0
42.5°	1196.8	1215.5	1241.0	1262.7	1283.6
45°	1135.4	1157.9	1184.1	1208.0	1228.2
47.5°	1078.5	1098.0	1124.2	1150.4	1171.4
50°	1014.9	1036.6	1063.6	1091.3	1114.5
52.5°	950.6	973.0	1000.7	1028.4	1052.3
55°	883.9	907.1	935.6	964.8	988.0
57.5°	815.8	840.5	869.7	898.9	922.1
60°	747.0	771.7	799.4	831.6	852.5
62.5°	675.1	702.8	729.0	758.9	771.7
65°	603.3	629.5	657.2	683.4	690.8
67.5°	529.9	556.9	581.6	598.8	608.5
70°	455.1	484.3	502.2	518.7	524.7
72.5°	381.0	410.2	420.6	436.4	442.3
75°	307.6	336.1	342.8	357.0	362.3
77.5°	236.5	262.7	265.0	281.4	285.9
80°	169.2	190.1	193.9	209.6	212.6
82.5°	108.5	123.5	128.7	142.2	146.7
85°	56.9	65.1	71.1	77.8	79.3
87.5°	18.7	23.2	19.5	20.2	18.7
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	17.89	19.54	18.26	19.86	20.17	18.43	20.08	18.80	20.40	20.71
	3H	19.67	21.16	20.05	21.49	21.85	20.29	21.78	20.67	22.11	22.47
	4H	20.30	21.70	20.69	22.05	22.43	20.96	22.37	21.36	22.71	23.09
	6H	20.71	22.01	21.12	22.37	22.76	21.44	22.74	21.85	23.11	23.50
	8H	20.81	22.06	21.23	22.44	22.84	21.58	22.83	22.01	23.22	23.62
	12H	20.86	22.05	21.29	22.43	22.86	21.67	22.86	22.10	23.24	23.67
4H	2H	18.62	20.03	19.02	20.37	20.75	19.04	20.45	19.44	20.80	21.17
	3H	20.61	21.79	21.02	22.19	22.59	21.11	22.29	21.52	22.69	23.09
	4H	21.37	22.44	21.80	22.85	23.29	21.91	22.98	22.34	23.39	23.83
	6H	21.90	22.83	22.35	23.27	23.73	22.51	23.45	22.97	23.89	24.34
	8H	22.04	22.91	22.50	23.35	23.82	22.70	23.58	23.16	24.02	24.48
	12H	22.12	22.90	22.60	23.38	23.85	22.82	23.61	23.30	24.08	24.55
8H	4H	21.71	22.58	22.17	23.02	23.49	22.19	23.06	22.65	23.50	23.97
	6H	22.35	23.07	22.84	23.56	24.04	22.90	23.62	23.39	24.11	24.59
	8H	22.55	23.20	23.06	23.71	24.19	23.16	23.81	23.66	24.31	24.80
	12H	22.68	23.25	23.18	23.74	24.30	23.34	23.91	23.84	24.40	24.96
12H	4H	21.75	22.53	22.23	23.01	23.47	22.21	22.99	22.69	23.47	23.94
	6H	22.40	23.06	22.91	23.56	24.05	22.93	23.59	23.44	24.09	24.58
	8H	22.66	23.23	23.16	23.72	24.28	23.24	23.82	23.75	24.31	24.87