

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: P1584381

Luminaire Tested: 14CZSP-54HE-L850

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584381
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-54HE-L850
Description: 1x4 CZSP LED Luminaire, 5000K CCT and 5000 lumens, 80CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

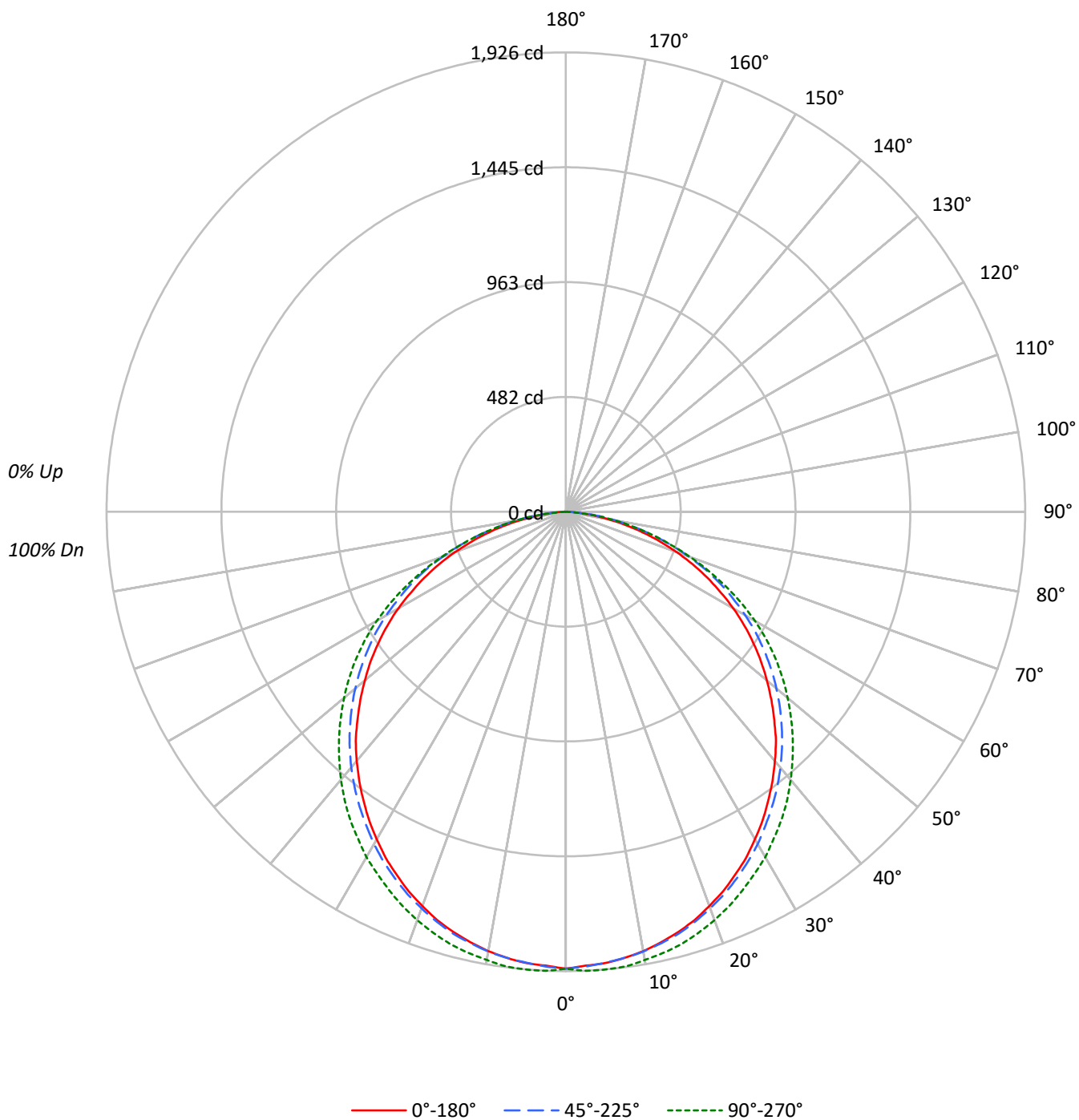
Lumens per Lamp: N/A
Luminaire Lumens: 5518.0 lumens
Efficiency: N/A
Efficacy: 147.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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
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°	6455	6455	6455
5°	6425	6419	6516
10°	6400	6406	6530
15°	6362	6387	6544
20°	6306	6345	6533
25°	6243	6304	6512
30°	6169	6260	6506
35°	6084	6203	6485
40°	5998	6157	6451
45°	5888	6103	6412
50°	5768	6042	6364
55°	5637	5966	6305
60°	5470	5859	6175
65°	5221	5710	5897
70°	4869	5385	5474
75°	4344	4861	4908
80°	3536	4094	4059
85°	2300	2861	2231

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6412 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.5	3.3
10°-20°	519.9	9.4
20°-30°	787.4	14.3
30°-40°	951.2	17.2
40°-50°	993.6	18.0
50°-60°	909.9	16.5
60°-70°	699.1	12.7
70°-80°	389.3	7.1
80°-90°	86.2	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°	1488.7	27.0
0°-40°	2439.9	44.2
0°-60°	4343.4	78.7
0°-90°	5518.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5518.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1916	1916	1916	1916	1916	
5°	1899	1919	1898	1908	1926	180
15°	1824	1842	1831	1849	1876	514
25°	1679	1699	1696	1721	1752	774
35°	1479	1501	1508	1544	1576	926
45°	1236	1263	1281	1319	1346	954
55°	960	990	1016	1052	1073	858
65°	655	689	716	730	740	647
75°	334	368	373	373	377	353
85°	60	70	74	61	58	77
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1915.6	1915.6	1915.6	1915.6	1915.6
2.5°	1904.8	1922.8	1908.4	1913.8	1926.5
5°	1899.4	1919.2	1897.6	1908.4	1926.5
7.5°	1886.8	1904.8	1886.8	1899.4	1922.8
10°	1870.5	1890.4	1872.3	1885.0	1908.4
12.5°	1848.9	1865.1	1852.5	1870.5	1894.0
15°	1823.6	1841.7	1830.9	1848.9	1875.9
17.5°	1794.8	1811.0	1802.0	1825.4	1850.7
20°	1758.7	1776.7	1769.5	1793.0	1821.8
22.5°	1722.6	1740.7	1735.3	1758.7	1789.4
25°	1679.3	1699.2	1695.6	1720.8	1751.5
27.5°	1636.0	1655.9	1654.1	1682.9	1711.8
30°	1585.5	1605.4	1609.0	1639.7	1672.1
32.5°	1535.0	1556.7	1558.5	1592.8	1623.4
35°	1479.1	1500.8	1508.0	1544.0	1576.5
37.5°	1423.2	1444.8	1455.7	1489.9	1524.2
40°	1363.7	1387.1	1399.7	1435.8	1466.5
42.5°	1304.1	1327.6	1342.0	1378.1	1407.0
45°	1235.6	1262.7	1280.7	1318.6	1345.6
47.5°	1168.9	1197.7	1217.6	1253.6	1280.7
50°	1100.3	1131.0	1152.6	1188.7	1214.0
52.5°	1031.8	1064.2	1085.9	1120.2	1145.4
55°	959.6	990.3	1015.5	1051.6	1073.3
57.5°	887.5	918.1	945.2	977.7	997.5
60°	811.7	844.2	869.4	901.9	916.3
62.5°	732.3	766.6	791.9	817.1	829.7
65°	654.8	689.0	716.1	730.5	739.6
67.5°	575.4	609.7	634.9	642.2	647.6
70°	494.2	528.5	546.6	550.2	555.6
72.5°	413.1	447.3	461.8	461.8	463.6
75°	333.7	368.0	373.4	373.4	377.0
77.5°	256.1	286.8	290.4	290.4	290.4
80°	182.2	205.6	211.0	211.0	209.2
82.5°	115.4	131.7	140.7	133.5	129.9
85°	59.5	70.3	74.0	61.3	57.7
87.5°	18.0	21.6	18.0	10.8	9.0
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	18.22	19.87	18.59	20.19	20.50	18.73	20.38	19.09	20.69	21.01
	3H	19.99	21.48	20.37	21.81	22.17	20.53	22.02	20.90	22.34	22.70
	4H	20.62	22.02	21.02	22.37	22.74	21.16	22.56	21.56	22.91	23.28
	6H	21.02	22.32	21.43	22.69	23.08	21.58	22.88	21.99	23.25	23.64
	8H	21.12	22.36	21.54	22.75	23.15	21.68	22.93	22.11	23.32	23.72
	12H	21.16	22.36	21.59	22.74	23.17	21.72	22.92	22.15	23.30	23.73
4H	2H	18.94	20.35	19.34	20.70	21.07	19.34	20.74	19.74	21.09	21.47
	3H	20.94	22.11	21.35	22.51	22.91	21.35	22.53	21.76	22.93	23.33
	4H	21.70	22.76	22.13	23.17	23.61	22.10	23.17	22.54	23.58	24.02
	6H	22.22	23.15	22.67	23.59	24.04	22.64	23.57	23.10	24.01	24.47
	8H	22.35	23.22	22.81	23.66	24.13	22.78	23.65	23.24	24.10	24.56
	12H	22.42	23.20	22.90	23.68	24.15	22.85	23.63	23.33	24.11	24.58
8H	4H	22.03	22.90	22.49	23.34	23.80	22.39	23.26	22.85	23.70	24.17
	6H	22.66	23.38	23.15	23.87	24.35	23.03	23.75	23.52	24.24	24.72
	8H	22.85	23.50	23.36	24.01	24.49	23.23	23.87	23.74	24.38	24.86
	12H	22.98	23.55	23.48	24.04	24.60	23.33	23.90	23.84	24.39	24.95
12H	4H	22.06	22.84	22.54	23.32	23.78	22.42	23.20	22.89	23.67	24.14
	6H	22.71	23.36	23.22	23.87	24.35	23.07	23.72	23.58	24.23	24.71
	8H	22.95	23.53	23.46	24.02	24.58	23.31	23.89	23.82	24.38	24.94