

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: P1584379

Luminaire Tested: 14CZSP-54HE-L845

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584379
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-L845
Description: 1x4 CZSP LED Luminaire, 4500K CCT and 5000 lumens, 80CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

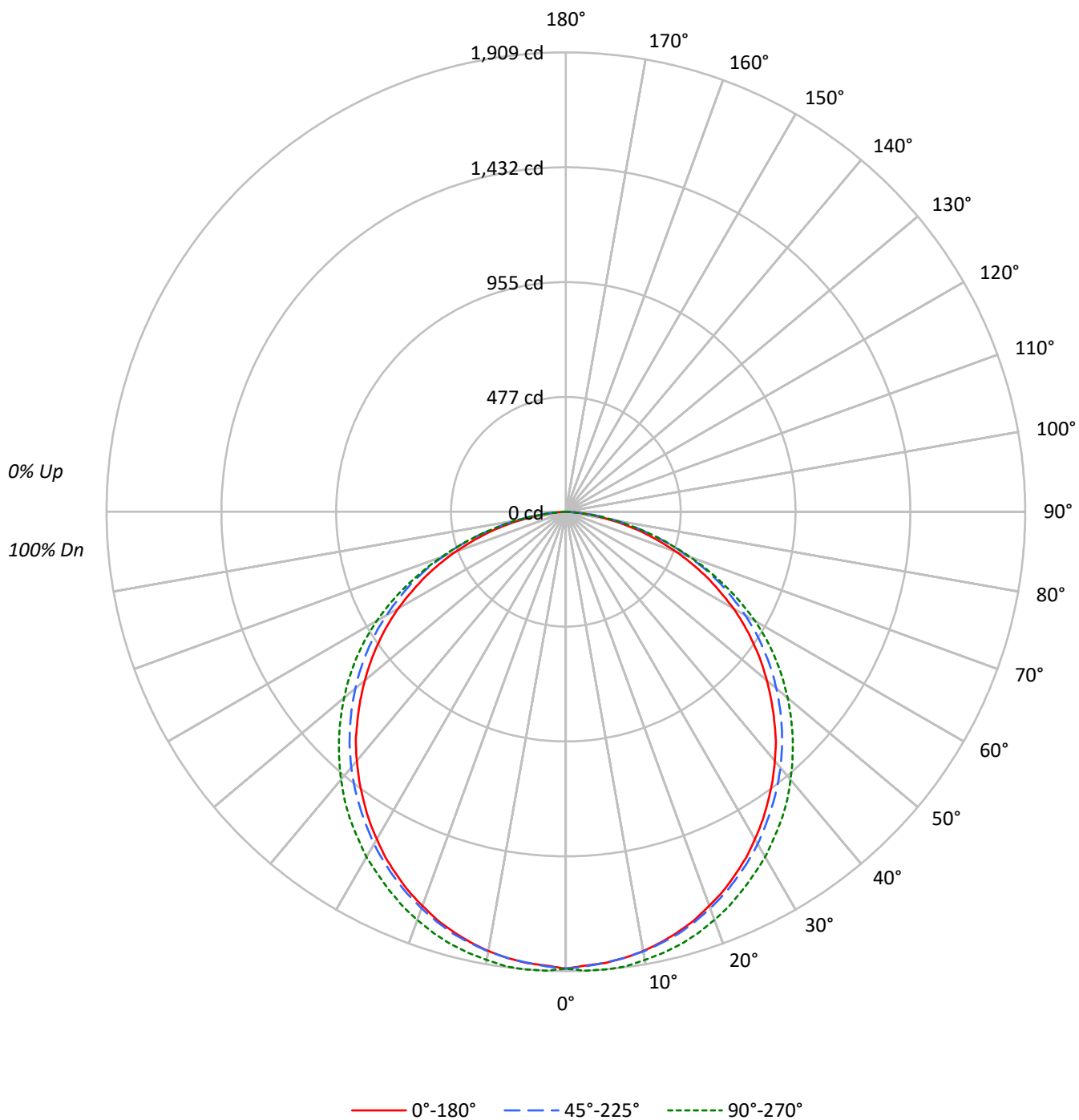
Lumens per Lamp: N/A
Luminaire Lumens: 5468.0 lumens
Efficiency: N/A
Efficacy: 146.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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

TEST NUMBER: P1584379

CATALOG NUMBER: 14CZSP-54HE-L845

Luminous Intensity Polar Plot



TEST NUMBER: P1584379

CATALOG NUMBER: 14CZSP-54HE-L845

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		94	91	88		90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75		82	77	73		79	75	72	70
3	90	79	71	65	87	78	70	64	75	68	63		72	66	62		69	65	61	58
4	82	70	61	55	80	69	61	54	66	59	53		64	58	53		62	56	52	50
5	76	63	54	47	73	61	53	47	59	52	46		57	51	46		55	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40		52	45	40		50	44	40	37
7	65	51	42	36	63	50	42	36	49	41	36		47	40	35		46	40	35	33
8	60	47	38	32	59	46	38	32	44	37	32		43	36	32		42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29		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°	6396	6396	6396
5°	6366	6360	6457
10°	6342	6348	6471
15°	6304	6329	6485
20°	6249	6288	6473
25°	6187	6247	6453
30°	6113	6204	6447
35°	6029	6147	6426
40°	5944	6101	6392
45°	5835	6048	6354
50°	5715	5988	6306
55°	5586	5912	6248
60°	5421	5806	6119
65°	5173	5658	5843
70°	4826	5336	5424
75°	4305	4817	4864
80°	3503	4058	4023
85°	2281	2834	2211

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6354 cd/sqm

TEST NUMBER: P1584379

CATALOG NUMBER: 14CZSP-54HE-L845

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.8	3.3
10°-20°	515.2	9.4
20°-30°	780.3	14.3
30°-40°	942.6	17.2
40°-50°	984.6	18.0
50°-60°	901.6	16.5
60°-70°	692.8	12.7
70°-80°	385.8	7.1
80°-90°	85.4	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°	1475.2	27.0
0°-40°	2417.8	44.2
0°-60°	4304.0	78.7
0°-90°	5468.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5468.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1898	1898	1898	1898	1898	
5°	1882	1902	1880	1891	1909	179
15°	1807	1825	1814	1832	1859	510
25°	1664	1684	1680	1705	1736	767
35°	1466	1487	1494	1530	1562	917
45°	1224	1251	1269	1307	1333	945
55°	951	981	1006	1042	1064	850
65°	649	683	710	724	733	641
75°	331	365	370	370	374	350
85°	59	70	73	61	57	77
90°	0	0	0	0	0	

TEST NUMBER: P1584379

CATALOG NUMBER: 14CZSP-54HE-L845

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1898.3	1898.3	1898.3	1898.3	1898.3
2.5°	1887.5	1905.4	1891.1	1896.5	1909.0
5°	1882.2	1901.8	1880.4	1891.1	1909.0
7.5°	1869.7	1887.5	1869.7	1882.2	1905.4
10°	1853.6	1873.2	1855.4	1867.9	1891.1
12.5°	1832.1	1848.2	1835.7	1853.6	1876.8
15°	1807.1	1825.0	1814.3	1832.1	1858.9
17.5°	1778.5	1794.6	1785.7	1808.9	1833.9
20°	1742.8	1760.6	1753.5	1776.7	1805.3
22.5°	1707.0	1724.9	1719.5	1742.8	1773.2
25°	1664.1	1683.8	1680.2	1705.2	1735.6
27.5°	1621.2	1640.9	1639.1	1667.7	1696.3
30°	1571.2	1590.8	1594.4	1624.8	1657.0
32.5°	1521.1	1542.6	1544.4	1578.3	1608.7
35°	1465.7	1487.2	1494.3	1530.1	1562.2
37.5°	1410.3	1431.7	1442.5	1476.4	1510.4
40°	1351.3	1374.5	1387.1	1422.8	1453.2
42.5°	1292.3	1315.6	1329.9	1365.6	1394.2
45°	1224.4	1251.2	1269.1	1306.6	1333.4
47.5°	1158.3	1186.9	1206.5	1242.3	1269.1
50°	1090.3	1120.7	1142.2	1177.9	1203.0
52.5°	1022.4	1054.6	1076.0	1110.0	1135.0
55°	950.9	981.3	1006.3	1042.1	1063.5
57.5°	879.4	909.8	936.6	968.8	988.5
60°	804.4	836.5	861.6	893.7	908.0
62.5°	725.7	759.7	784.7	809.7	822.2
65°	648.8	682.8	709.6	723.9	732.9
67.5°	570.2	604.2	629.2	636.3	641.7
70°	489.8	523.7	541.6	545.2	550.5
72.5°	409.3	443.3	457.6	457.6	459.4
75°	330.7	364.6	370.0	370.0	373.6
77.5°	253.8	284.2	287.8	287.8	287.8
80°	180.5	203.8	209.1	209.1	207.3
82.5°	114.4	130.5	139.4	132.3	128.7
85°	59.0	69.7	73.3	60.8	57.2
87.5°	17.9	21.4	17.9	10.7	8.9
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1584379

CATALOG NUMBER: 14CZSP-54HE-L845

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	18.19	19.84	18.56	20.15	20.47	18.70	20.35	19.06	20.66	20.97
	3H	19.96	21.45	20.34	21.78	22.14	20.50	21.99	20.87	22.31	22.67
	4H	20.59	21.99	20.98	22.34	22.71	21.13	22.53	21.52	22.88	23.25
	6H	20.99	22.29	21.40	22.65	23.05	21.55	22.85	21.96	23.21	23.60
	8H	21.09	22.33	21.51	22.72	23.12	21.65	22.90	22.08	23.28	23.68
	12H	21.13	22.32	21.56	22.71	23.13	21.69	22.88	22.12	23.27	23.69
4H	2H	18.91	20.32	19.31	20.66	21.04	19.31	20.71	19.71	21.06	21.44
	3H	20.91	22.08	21.32	22.48	22.88	21.32	22.50	21.73	22.90	23.30
	4H	21.66	22.73	22.09	23.14	23.58	22.07	23.14	22.50	23.55	23.99
	6H	22.18	23.11	22.64	23.56	24.01	22.61	23.54	23.06	23.98	24.44
	8H	22.32	23.19	22.78	23.63	24.09	22.75	23.62	23.21	24.06	24.53
	12H	22.39	23.17	22.87	23.65	24.12	22.82	23.60	23.30	24.08	24.54
8H	4H	22.00	22.87	22.46	23.31	23.77	22.36	23.23	22.82	23.67	24.14
	6H	22.63	23.35	23.12	23.84	24.31	23.00	23.72	23.49	24.21	24.68
	8H	22.82	23.47	23.33	23.97	24.46	23.19	23.84	23.70	24.35	24.83
	12H	22.94	23.52	23.45	24.01	24.57	23.30	23.87	23.81	24.36	24.92
12H	4H	22.03	22.81	22.51	23.28	23.75	22.38	23.16	22.86	23.64	24.11
	6H	22.68	23.33	23.19	23.83	24.32	23.04	23.69	23.55	24.19	24.68
	8H	22.92	23.49	23.43	23.98	24.54	23.28	23.85	23.79	24.34	24.90