

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: P1585779

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585779
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-3)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-SB-54HE-L845
Description: 1x4 CZSP LED Luminaire, 4500K CCT and 5000 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

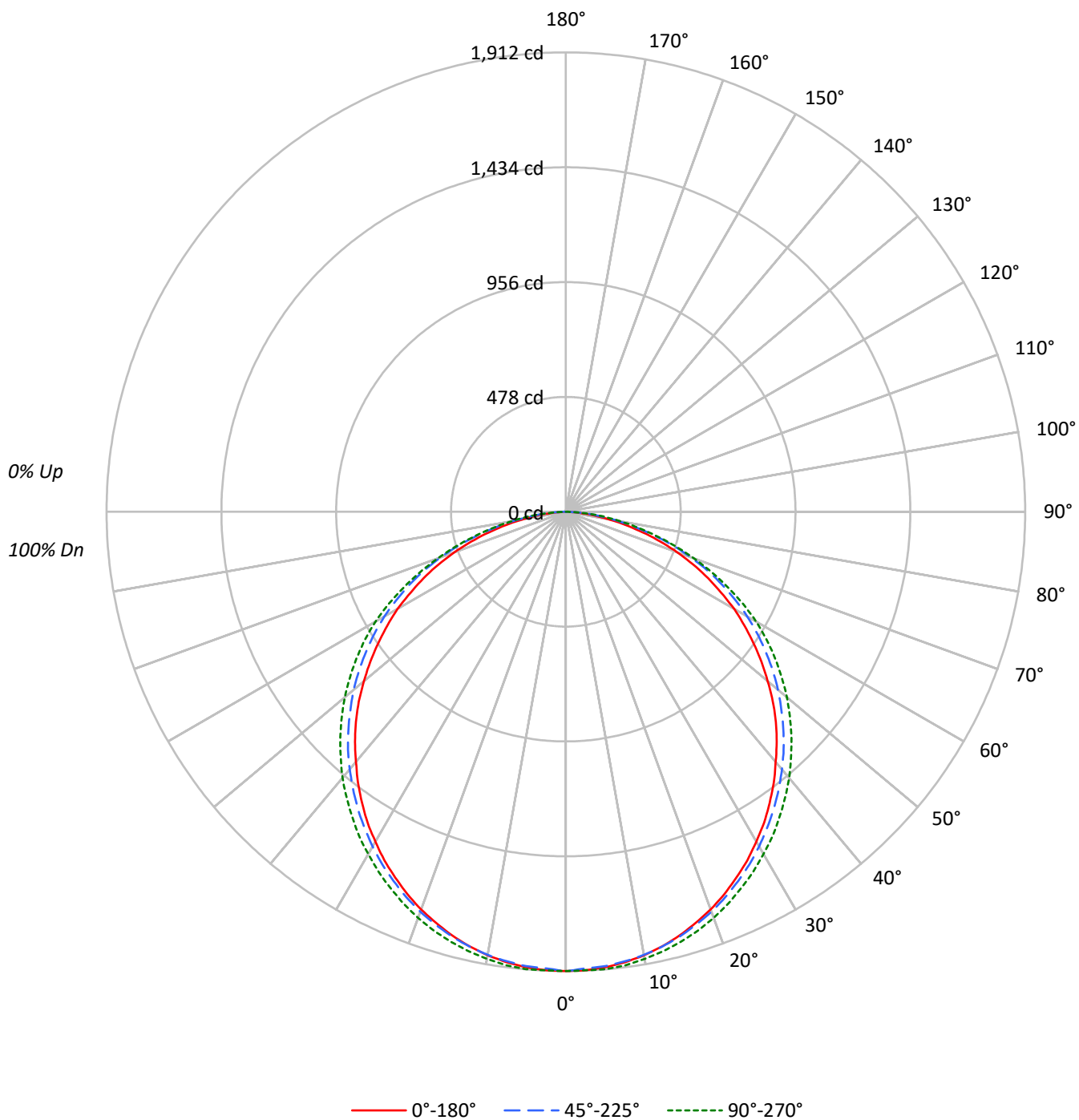
Lumens per Lamp: N/A
Luminaire Lumens: 5523.0 lumens
Efficiency: N/A
Efficacy: 148.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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	99	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	79	75		82	77	73		79	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63		72	66	61		69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53		64	58	52		62	56	52	50
5	75	62	53	47	73	61	53	46	59	52	46		57	51	45		55	50	45	43
6	70	56	47	41	68	55	47	40	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	58	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°	6442	6442	6442
5°	6437	6421	6464
10°	6413	6408	6465
15°	6372	6386	6461
20°	6316	6353	6450
25°	6247	6306	6425
30°	6169	6259	6401
35°	6084	6208	6378
40°	5977	6156	6362
45°	5891	6100	6327
50°	5751	6043	6297
55°	5604	5963	6249
60°	5453	5876	6166
65°	5208	5721	5931
70°	4860	5463	5596
75°	4329	4951	5096
80°	3536	4292	4508
85°	2339	3414	3661

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6327 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.1	3.3
10°-20°	518.7	9.4
20°-30°	785.3	14.2
30°-40°	947.8	17.2
40°-50°	989.8	17.9
50°-60°	905.5	16.4
60°-70°	700.0	12.7
70°-80°	396.3	7.2
80°-90°	98.5	1.8
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°	1485.0	26.9
0°-40°	2432.8	44.0
0°-60°	4328.2	78.4
0°-90°	5523.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5523.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1912	1912	1912	1912	1912	
5°	1903	1916	1898	1900	1911	181
15°	1827	1842	1831	1839	1852	515
25°	1680	1702	1696	1712	1728	774
35°	1479	1500	1509	1535	1551	925
45°	1236	1260	1280	1313	1328	952
55°	954	982	1015	1047	1064	853
65°	653	680	718	739	744	645
75°	332	361	380	390	391	353
85°	60	70	88	92	95	78
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1911.7	1911.7	1911.7	1911.7	1911.7
2.5°	1909.4	1922.9	1902.2	1906.2	1910.2
5°	1903.0	1916.5	1898.2	1899.8	1910.9
7.5°	1891.1	1906.2	1887.1	1890.3	1903.8
10°	1874.4	1889.5	1872.8	1875.9	1889.5
12.5°	1852.9	1868.0	1853.7	1858.4	1873.6
15°	1826.6	1842.5	1830.6	1839.3	1852.1
17.5°	1794.8	1814.7	1802.0	1815.5	1828.2
20°	1761.4	1781.3	1771.7	1783.7	1798.8
22.5°	1723.2	1743.1	1735.9	1748.7	1765.4
25°	1680.2	1701.7	1696.1	1712.1	1728.0
27.5°	1635.7	1656.4	1654.8	1672.3	1689.0
30°	1585.6	1607.8	1608.6	1629.3	1645.2
32.5°	1535.4	1555.3	1560.1	1583.2	1601.5
35°	1479.0	1499.6	1509.2	1534.6	1550.6
37.5°	1421.7	1444.7	1455.1	1482.9	1499.6
40°	1358.8	1385.1	1399.4	1428.8	1446.3
42.5°	1299.2	1323.0	1342.1	1371.6	1387.5
45°	1236.3	1260.2	1280.1	1312.7	1327.8
47.5°	1168.7	1194.9	1216.4	1248.2	1264.9
50°	1097.1	1125.7	1152.8	1183.8	1201.3
52.5°	1026.3	1054.1	1085.2	1115.4	1132.9
55°	953.9	982.5	1015.1	1047.0	1063.7
57.5°	880.7	909.3	945.1	973.8	991.3
60°	809.1	835.3	871.9	900.6	914.9
62.5°	727.9	758.2	795.6	824.2	832.2
65°	653.2	680.2	717.6	739.1	743.9
67.5°	573.6	600.7	638.0	650.0	657.1
70°	493.3	521.9	554.5	562.5	568.0
72.5°	412.1	441.5	467.0	475.0	479.7
75°	332.5	361.2	380.3	389.8	391.4
77.5°	255.4	281.6	299.1	310.3	310.3
80°	182.2	202.1	221.2	233.1	232.3
82.5°	116.2	131.3	151.2	159.9	165.5
85°	60.5	70.0	88.3	92.3	94.7
87.5°	19.1	24.7	31.8	26.3	25.5
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	18.15	19.80	18.52	20.12	20.43	18.69	20.34	19.06	20.66	20.97
	3H	19.92	21.42	20.30	21.74	22.10	20.55	22.05	20.93	22.37	22.73
	4H	20.55	21.96	20.95	22.30	22.68	21.23	22.63	21.62	22.98	23.36
	6H	20.95	22.26	21.36	22.62	23.01	21.71	23.02	22.12	23.38	23.77
	8H	21.05	22.30	21.48	22.69	23.09	21.87	23.11	22.29	23.50	23.90
	12H	21.10	22.30	21.53	22.68	23.11	21.96	23.16	22.39	23.54	23.97
4H	2H	18.89	20.30	19.29	20.65	21.02	19.31	20.72	19.71	21.07	21.44
	3H	20.88	22.06	21.29	22.46	22.86	21.39	22.57	21.80	22.97	23.37
	4H	21.63	22.70	22.06	23.11	23.55	22.19	23.26	22.62	23.67	24.11
	6H	22.15	23.09	22.60	23.53	23.98	22.81	23.74	23.26	24.18	24.64
	8H	22.29	23.16	22.75	23.60	24.07	23.01	23.89	23.47	24.33	24.79
	12H	22.36	23.15	22.84	23.62	24.09	23.15	23.94	23.63	24.41	24.88
8H	4H	21.99	22.86	22.45	23.30	23.77	22.48	23.36	22.94	23.80	24.26
	6H	22.62	23.35	23.11	23.83	24.31	23.21	23.94	23.71	24.43	24.90
	8H	22.81	23.47	23.32	23.97	24.46	23.49	24.14	24.00	24.65	25.13
	12H	22.94	23.52	23.45	24.01	24.57	23.69	24.27	24.20	24.76	25.32
12H	4H	22.03	22.82	22.51	23.29	23.76	22.51	23.29	22.99	23.77	24.24
	6H	22.68	23.34	23.19	23.84	24.33	23.26	23.91	23.76	24.42	24.90
	8H	22.93	23.51	23.44	24.00	24.56	23.58	24.16	24.09	24.65	25.21