

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: P1585777

Luminaire Tested: 14CZSP-SB-54HE-L840

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585777
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-L840
Description: 1x4 CZSP LED Luminaire, 4000K CCT and 5000 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

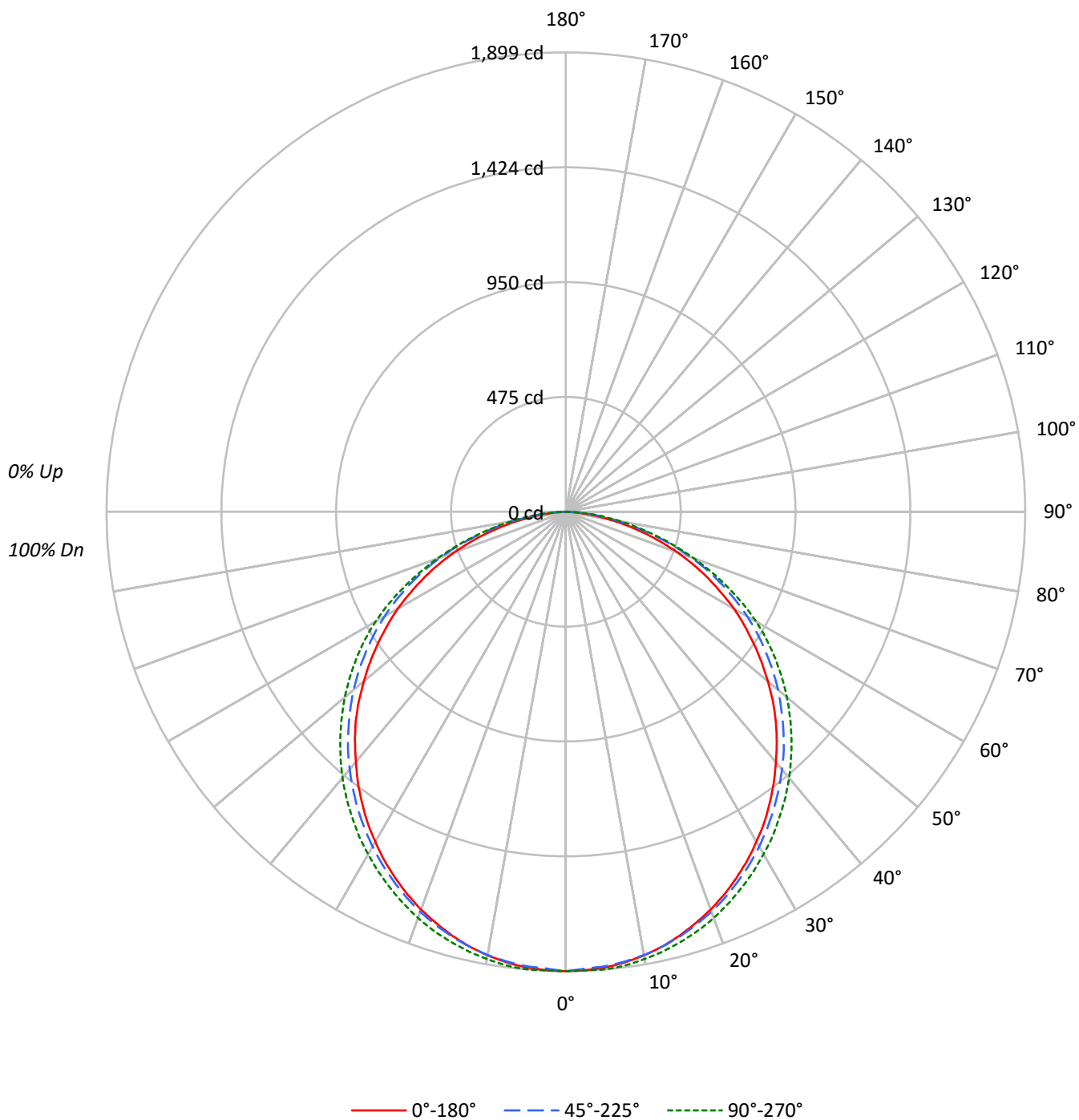
Lumens per Lamp: N/A
Luminaire Lumens: 5487.0 lumens
Efficiency: N/A
Efficacy: 147.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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	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	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°	6400	6400	6400
5°	6395	6379	6422
10°	6371	6366	6423
15°	6330	6344	6419
20°	6275	6312	6408
25°	6206	6265	6383
30°	6129	6218	6360
35°	6044	6168	6337
40°	5938	6115	6320
45°	5853	6060	6286
50°	5713	6004	6256
55°	5567	5925	6208
60°	5417	5838	6125
65°	5174	5684	5892
70°	4827	5427	5559
75°	4301	4919	5063
80°	3512	4263	4479
85°	2324	3391	3638

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6286 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.9	3.3
10°-20°	515.3	9.4
20°-30°	780.1	14.2
30°-40°	941.7	17.2
40°-50°	983.4	17.9
50°-60°	899.6	16.4
60°-70°	695.5	12.7
70°-80°	393.7	7.2
80°-90°	97.8	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°	1475.3	26.9
0°-40°	2417.0	44.0
0°-60°	4300.0	78.4
0°-90°	5487.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5487.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1899	1899	1899	1899	1899	
5°	1891	1904	1886	1887	1898	180
15°	1815	1830	1819	1827	1840	512
25°	1669	1691	1685	1701	1717	769
35°	1469	1490	1499	1525	1540	919
45°	1228	1252	1272	1304	1319	946
55°	948	976	1008	1040	1057	847
65°	649	676	713	734	739	640
75°	330	359	378	387	389	350
85°	60	70	88	92	94	77
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1899.3	1899.3	1899.3	1899.3	1899.3
2.5°	1896.9	1910.3	1889.8	1893.8	1897.7
5°	1890.6	1904.0	1885.8	1887.4	1898.5
7.5°	1878.7	1893.8	1874.8	1877.9	1891.4
10°	1862.1	1877.2	1860.6	1863.7	1877.2
12.5°	1840.8	1855.8	1841.6	1846.3	1861.3
15°	1814.7	1830.5	1818.7	1827.4	1840.0
17.5°	1783.1	1802.9	1790.2	1803.6	1816.3
20°	1749.9	1769.7	1760.2	1772.0	1787.0
22.5°	1712.0	1731.7	1724.6	1737.3	1753.9
25°	1669.3	1690.6	1685.1	1700.9	1716.7
27.5°	1625.0	1645.6	1644.0	1661.4	1678.0
30°	1575.2	1597.4	1598.1	1618.7	1634.5
32.5°	1525.4	1545.2	1549.9	1572.9	1591.0
35°	1469.3	1489.9	1499.4	1524.6	1540.5
37.5°	1412.4	1435.3	1445.6	1473.3	1489.9
40°	1350.0	1376.1	1390.3	1419.5	1436.9
42.5°	1290.7	1314.4	1333.4	1362.6	1378.4
45°	1228.3	1252.0	1271.7	1304.1	1319.1
47.5°	1161.1	1187.2	1208.5	1240.1	1256.7
50°	1089.9	1118.4	1145.3	1176.1	1193.5
52.5°	1019.6	1047.3	1078.1	1108.1	1125.5
55°	947.7	976.1	1008.5	1040.1	1056.7
57.5°	875.0	903.4	939.0	967.4	984.8
60°	803.8	829.9	866.3	894.7	908.9
62.5°	723.2	753.2	790.4	818.8	826.7
65°	648.9	675.8	712.9	734.3	739.0
67.5°	569.9	596.7	633.9	645.7	652.9
70°	490.0	518.5	550.9	558.8	564.3
72.5°	409.4	438.7	464.0	471.9	476.6
75°	330.4	358.8	377.8	387.3	388.9
77.5°	253.7	279.8	297.2	308.2	308.2
80°	181.0	200.8	219.7	231.6	230.8
82.5°	115.4	130.4	150.2	158.9	164.4
85°	60.1	69.6	87.7	91.7	94.1
87.5°	19.0	24.5	31.6	26.1	25.3
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	18.13	19.78	18.49	20.09	20.41	18.67	20.32	19.03	20.63	20.95
	3H	19.90	21.40	20.28	21.72	22.08	20.53	22.02	20.91	22.35	22.71
	4H	20.53	21.93	20.92	22.28	22.66	21.20	22.61	21.60	22.96	23.33
	6H	20.93	22.24	21.34	22.60	22.99	21.69	22.99	22.10	23.36	23.75
	8H	21.03	22.28	21.46	22.67	23.07	21.84	23.09	22.27	23.48	23.88
	12H	21.08	22.28	21.51	22.66	23.09	21.94	23.14	22.37	23.52	23.95
4H	2H	18.87	20.28	19.27	20.62	21.00	19.29	20.70	19.69	21.04	21.42
	3H	20.86	22.04	21.27	22.44	22.84	21.37	22.55	21.78	22.95	23.35
	4H	21.61	22.68	22.04	23.09	23.53	22.17	23.24	22.60	23.65	24.09
	6H	22.13	23.06	22.58	23.50	23.96	22.78	23.72	23.24	24.16	24.61
	8H	22.26	23.14	22.72	23.58	24.05	22.99	23.86	23.45	24.30	24.77
	12H	22.34	23.13	22.82	23.60	24.07	23.13	23.91	23.61	24.39	24.86
8H	4H	21.96	22.84	22.42	23.28	23.75	22.46	23.33	22.92	23.78	24.24
	6H	22.60	23.32	23.09	23.81	24.29	23.19	23.92	23.68	24.41	24.88
	8H	22.79	23.44	23.30	23.95	24.43	23.46	24.12	23.97	24.62	25.11
	12H	22.92	23.49	23.42	23.98	24.54	23.67	24.25	24.18	24.74	25.30
12H	4H	22.01	22.79	22.49	23.27	23.74	22.48	23.27	22.96	23.75	24.21
	6H	22.66	23.32	23.17	23.82	24.31	23.23	23.89	23.74	24.39	24.88
	8H	22.91	23.49	23.42	23.98	24.54	23.56	24.14	24.07	24.63	25.19