

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: P1585776

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585776
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-4)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-SB-54HE-L840-S
Description: 1x4 CZSP LED Luminaire, 4000K CCT and 5000 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

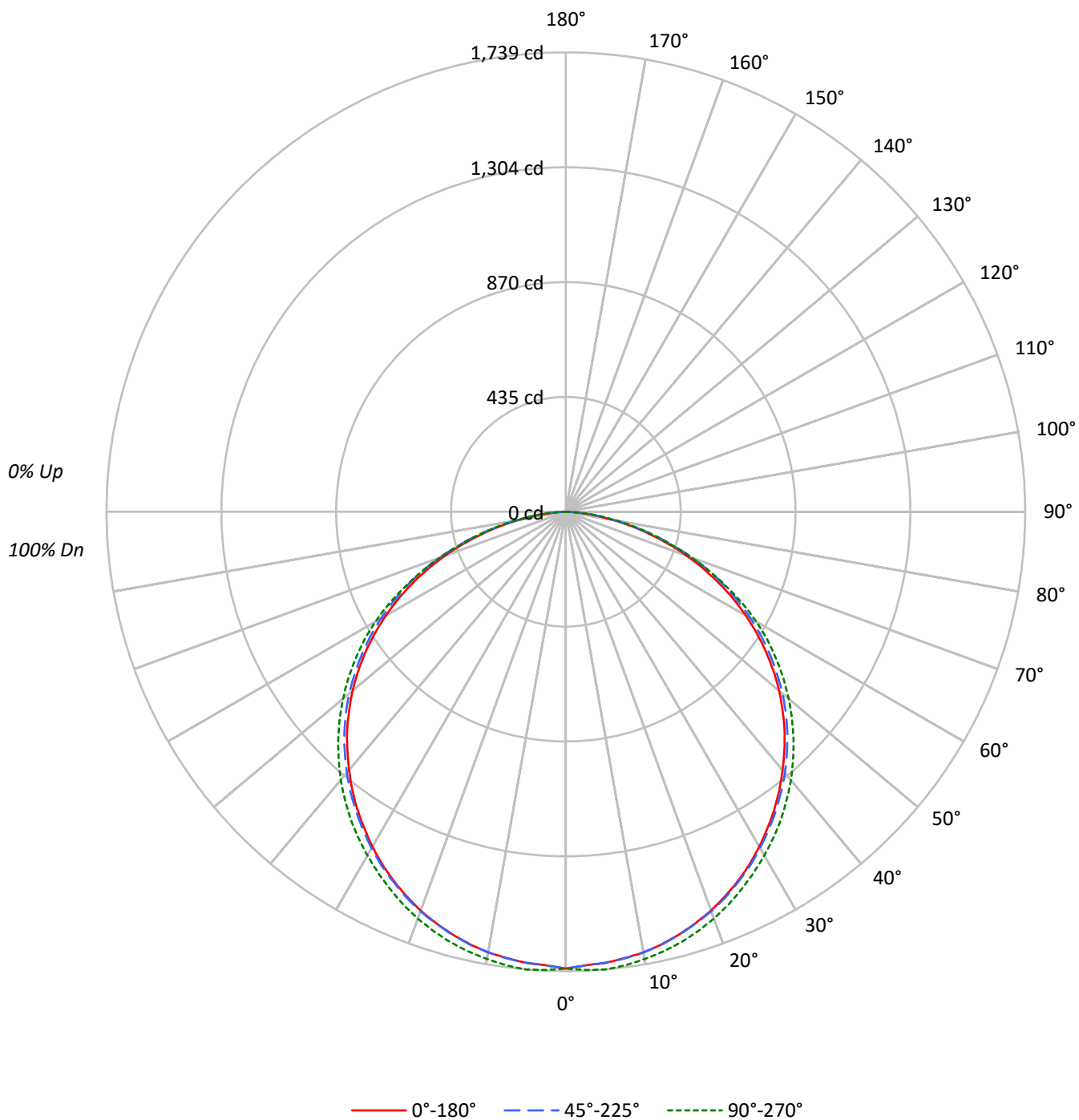
Lumens per Lamp: N/A
Luminaire Lumens: 5103.0 lumens
Efficiency: N/A
Efficacy: 136.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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: P1585776

CATALOG NUMBER: 14CZSP-SB-54HE-L840-S

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	99	96	106	102	98	94	97	94	91		93	91	88		90
2	99	90	83	77	96	88	82	77	85	79	75		81	77	73		78
3	90	79	71	64	87	77	70	64	74	68	62		72	66	61		69
4	82	70	61	54	80	69	60	54	66	59	53		64	57	52		61
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		55
6	70	56	47	40	68	55	46	40	53	46	40		52	45	40		50
7	64	51	42	36	63	50	41	35	48	41	35		47	40	35		46
8	60	46	38	32	58	46	37	32	44	37	31		43	36	31		42
9	56	42	34	28	55	42	34	28	41	33	28		40	33	28		39
10	52	39	31	26	51	39	31	26	38	30	26		37	30	25		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5827	5827	5827
5°	5799	5796	5883
10°	5796	5794	5882
15°	5779	5784	5885
20°	5761	5772	5876
25°	5732	5746	5857
30°	5697	5722	5846
35°	5660	5696	5844
40°	5616	5675	5833
45°	5582	5653	5809
50°	5526	5612	5772
55°	5439	5540	5715
60°	5308	5445	5614
65°	5108	5302	5358
70°	4804	5026	4996
75°	4313	4497	4527
80°	3563	3745	3943
85°	2385	2780	2931

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5809 cd/sqm

TEST NUMBER: P1585776

CATALOG NUMBER: 14CZSP-SB-54HE-L840-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.9	3.2
10°-20°	471.1	9.2
20°-30°	717.4	14.1
30°-40°	873.1	17.1
40°-50°	920.4	18.0
50°-60°	847.7	16.6
60°-70°	654.7	12.8
70°-80°	366.4	7.2
80°-90°	88.3	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°	1352.4	26.5
0°-40°	2225.4	43.6
0°-60°	3993.6	78.3
0°-90°	5103.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5103.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1729	1729	1729	1729	1729	
5°	1714	1739	1714	1716	1739	163
15°	1656	1679	1658	1668	1687	468
25°	1542	1564	1546	1556	1575	711
35°	1376	1396	1385	1402	1421	861
45°	1171	1188	1186	1204	1219	903
55°	926	942	943	963	973	826
65°	641	660	665	671	672	633
75°	331	352	345	345	348	351
85°	62	68	72	80	76	79
90°	0	0	0	0	0	

TEST NUMBER: P1585776

CATALOG NUMBER: 14CZSP-SB-54HE-L840-S

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1729.2	1729.2	1729.2	1729.2	1729.2
2.5°	1718.3	1743.3	1718.3	1722.2	1736.3
5°	1714.4	1738.6	1713.6	1715.9	1739.4
7.5°	1704.2	1729.2	1705.8	1708.9	1731.6
10°	1694.1	1716.7	1693.3	1697.2	1719.1
12.5°	1676.9	1700.3	1678.4	1683.1	1705.0
15°	1656.5	1679.2	1658.1	1667.5	1687.0
17.5°	1633.1	1655.0	1634.7	1645.6	1664.4
20°	1606.5	1627.6	1609.7	1617.5	1638.6
22.5°	1575.3	1597.2	1580.0	1587.0	1609.7
25°	1541.7	1563.6	1545.6	1555.8	1575.3
27.5°	1505.0	1526.1	1510.4	1522.9	1540.1
30°	1464.3	1484.6	1470.6	1485.4	1502.6
32.5°	1420.6	1442.4	1428.4	1445.6	1462.8
35°	1376.0	1396.3	1384.6	1401.8	1420.6
37.5°	1327.6	1347.1	1338.5	1356.5	1373.7
40°	1276.8	1298.7	1290.1	1308.8	1326.0
42.5°	1224.4	1245.5	1238.5	1258.0	1272.9
45°	1171.3	1187.7	1186.2	1204.1	1219.0
47.5°	1112.7	1133.0	1129.9	1147.9	1161.1
50°	1054.1	1070.5	1070.5	1087.7	1101.0
52.5°	990.8	1007.2	1007.2	1027.5	1038.5
55°	925.9	941.6	943.1	962.7	972.8
57.5°	857.2	873.6	876.7	896.3	905.6
60°	787.6	803.3	808.0	827.5	833.0
62.5°	715.0	733.7	736.1	751.7	754.8
65°	640.7	659.5	665.0	671.2	672.0
67.5°	564.9	584.5	590.0	590.0	590.0
70°	487.6	505.6	510.2	507.1	507.1
72.5°	409.4	429.0	426.6	423.5	425.1
75°	331.3	351.6	345.4	344.6	347.7
77.5°	256.3	275.8	265.7	271.9	272.7
80°	183.6	198.5	193.0	202.4	203.2
82.5°	118.0	127.4	128.9	136.7	134.4
85°	61.7	68.0	71.9	80.5	75.8
87.5°	19.5	25.8	23.4	27.3	21.1
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	18.16	19.81	18.52	20.13	20.44	18.37	20.03	18.74	20.34	20.66
	3H	19.98	21.48	20.36	21.80	22.16	20.17	21.67	20.55	22.00	22.36
	4H	20.63	22.04	21.02	22.39	22.76	20.81	22.23	21.21	22.57	22.95
	6H	21.05	22.36	21.46	22.73	23.12	21.27	22.58	21.68	22.94	23.33
	8H	21.16	22.41	21.59	22.80	23.20	21.40	22.65	21.82	23.04	23.44
	12H	21.22	22.42	21.65	22.80	23.23	21.47	22.67	21.90	23.05	23.48
4H	2H	18.84	20.25	19.24	20.60	20.97	19.01	20.42	19.41	20.77	21.14
	3H	20.88	22.06	21.29	22.46	22.86	21.02	22.21	21.43	22.60	23.00
	4H	21.66	22.73	22.09	23.14	23.58	21.78	22.85	22.21	23.26	23.70
	6H	22.21	23.15	22.66	23.59	24.04	22.35	23.29	22.81	23.73	24.19
	8H	22.35	23.23	22.81	23.67	24.14	22.53	23.41	22.99	23.85	24.31
	12H	22.44	23.23	22.92	23.70	24.17	22.64	23.43	23.12	23.91	24.37
8H	4H	21.97	22.84	22.43	23.28	23.75	22.07	22.95	22.53	23.39	23.86
	6H	22.62	23.35	23.12	23.84	24.32	22.76	23.48	23.25	23.97	24.45
	8H	22.83	23.48	23.34	23.99	24.47	22.99	23.65	23.50	24.15	24.64
	12H	22.97	23.54	23.47	24.03	24.59	23.17	23.75	23.68	24.24	24.80
12H	4H	22.00	22.79	22.48	23.26	23.73	22.10	22.89	22.58	23.37	23.83
	6H	22.67	23.33	23.18	23.83	24.32	22.80	23.45	23.30	23.96	24.44
	8H	22.93	23.50	23.43	23.99	24.55	23.09	23.66	23.59	24.15	24.71

END OF REPORT