

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: P1585697

Luminaire Tested: 14CZSP-SB-43HE-L840

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585697
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-43HE-L840
Description: 1x4 CZSP LED Luminaire, 4000K CCT and 4000 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

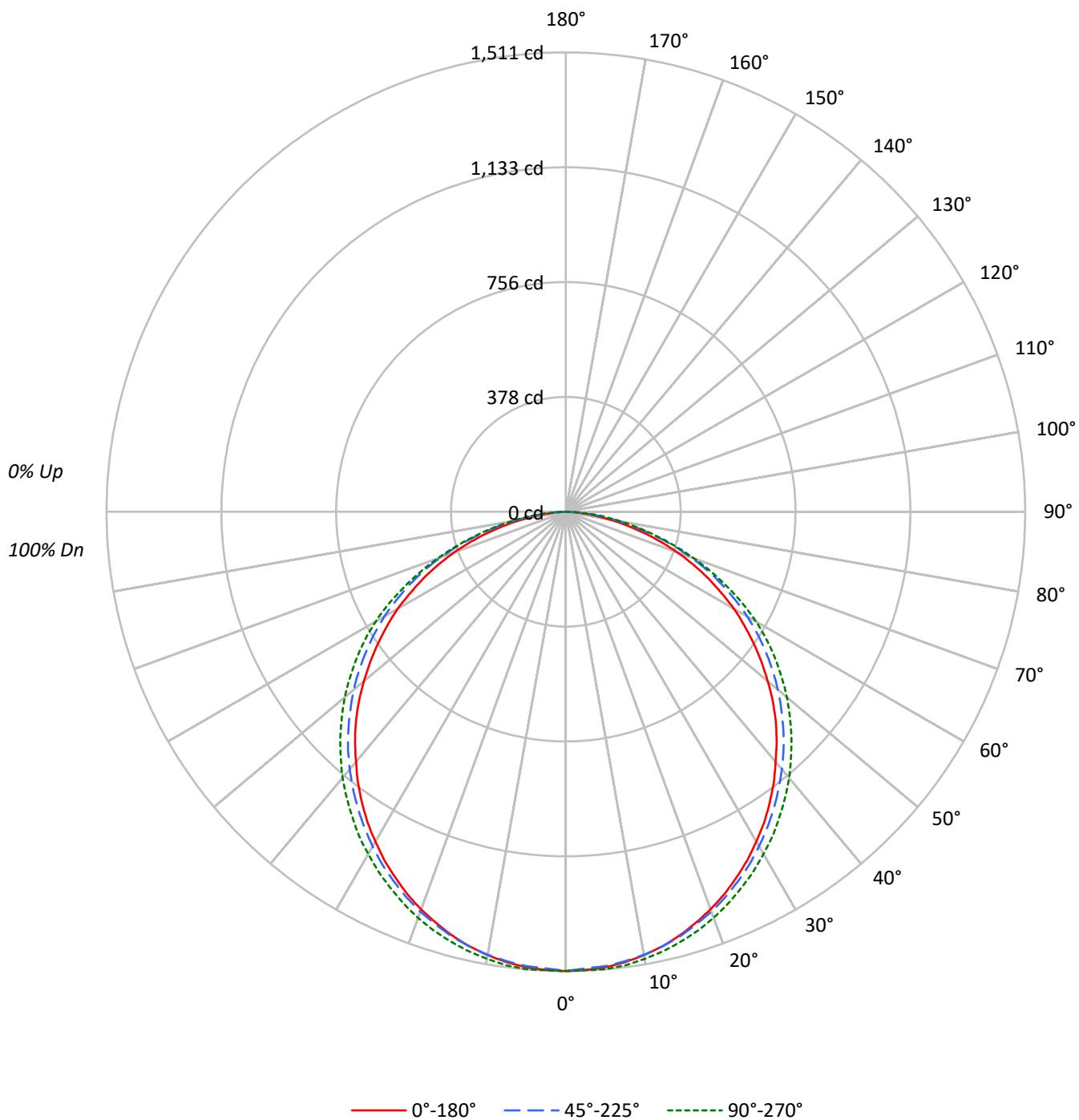
Lumens per Lamp: N/A
Luminaire Lumens: 4364.0 lumens
Efficiency: N/A
Efficacy: 151.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 28.9
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°	5090	5090	5090
5°	5086	5073	5107
10°	5067	5063	5108
15°	5035	5046	5105
20°	4991	5020	5097
25°	4936	4983	5076
30°	4874	4946	5058
35°	4807	4905	5040
40°	4723	4864	5027
45°	4655	4820	5000
50°	4544	4775	4976
55°	4428	4712	4938
60°	4308	4643	4872
65°	4115	4521	4687
70°	3839	4316	4422
75°	3421	3912	4027
80°	2794	3392	3563
85°	1848	2699	2892

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5000 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.1	3.3
10°-20°	409.8	9.4
20°-30°	620.5	14.2
30°-40°	748.9	17.2
40°-50°	782.1	17.9
50°-60°	715.5	16.4
60°-70°	553.1	12.7
70°-80°	313.2	7.2
80°-90°	77.8	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°	1173.4	26.9
0°-40°	1922.3	44.0
0°-60°	3419.9	78.4
0°-90°	4364.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4364.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1511	1511	1511	1511	1511	
5°	1504	1514	1500	1501	1510	143
15°	1443	1456	1446	1453	1463	407
25°	1328	1345	1340	1353	1365	612
35°	1169	1185	1192	1213	1225	731
45°	977	996	1011	1037	1049	752
55°	754	776	802	827	840	674
65°	516	538	567	584	588	509
75°	263	285	300	308	309	279
85°	48	55	70	73	75	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1510.6	1510.6	1510.6	1510.6	1510.6
2.5°	1508.7	1519.4	1503.0	1506.2	1509.3
5°	1503.7	1514.3	1499.9	1501.1	1509.9
7.5°	1494.2	1506.2	1491.1	1493.6	1504.3
10°	1481.0	1493.0	1479.8	1482.3	1493.0
12.5°	1464.0	1476.0	1464.7	1468.4	1480.4
15°	1443.3	1455.9	1446.4	1453.4	1463.4
17.5°	1418.2	1433.9	1423.8	1434.5	1444.6
20°	1391.8	1407.5	1399.9	1409.4	1421.3
22.5°	1361.6	1377.3	1371.6	1381.7	1394.9
25°	1327.6	1344.6	1340.2	1352.8	1365.4
27.5°	1292.4	1308.8	1307.5	1321.4	1334.6
30°	1252.8	1270.4	1271.1	1287.4	1300.0
32.5°	1213.2	1228.9	1232.7	1250.9	1265.4
35°	1168.6	1184.9	1192.5	1212.6	1225.2
37.5°	1123.3	1141.6	1149.7	1171.7	1184.9
40°	1073.7	1094.4	1105.7	1129.0	1142.8
42.5°	1026.5	1045.4	1060.5	1083.7	1096.3
45°	976.9	995.7	1011.4	1037.2	1049.2
47.5°	923.4	944.2	961.2	986.3	999.5
50°	866.9	889.5	910.9	935.4	949.2
52.5°	810.9	832.9	857.4	881.3	895.1
55°	753.7	776.3	802.1	827.3	840.5
57.5°	695.9	718.5	746.8	769.4	783.3
60°	639.3	660.0	689.0	711.6	722.9
62.5°	575.2	599.1	628.6	651.2	657.5
65°	516.1	537.5	567.0	584.0	587.8
67.5°	453.2	474.6	504.2	513.6	519.2
70°	389.7	412.4	438.1	444.4	448.8
72.5°	325.6	348.9	369.0	375.3	379.1
75°	262.8	285.4	300.5	308.0	309.3
77.5°	201.8	222.5	236.4	245.2	245.2
80°	144.0	159.7	174.8	184.2	183.6
82.5°	91.8	103.7	119.4	126.4	130.8
85°	47.8	55.3	69.8	72.9	74.8
87.5°	15.1	19.5	25.1	20.7	20.1
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	17.33	18.98	17.70	19.30	19.61	17.87	19.52	18.24	19.84	20.15
	3H	19.11	20.60	19.48	20.93	21.29	19.73	21.23	20.11	21.55	21.91
	4H	19.73	21.14	20.13	21.49	21.86	20.41	21.81	20.80	22.16	22.54
	6H	20.14	21.44	20.55	21.80	22.20	20.89	22.20	21.30	22.56	22.95
	8H	20.24	21.48	20.66	21.87	22.27	21.05	22.30	21.47	22.68	23.08
	12H	20.28	21.48	20.71	21.86	22.29	21.15	22.34	21.58	22.72	23.15
4H	2H	18.07	19.48	18.47	19.83	20.20	18.49	19.90	18.89	20.25	20.62
	3H	20.06	21.25	20.47	21.64	22.04	20.57	21.75	20.98	22.15	22.55
	4H	20.81	21.88	21.25	22.30	22.73	21.37	22.44	21.80	22.86	23.29
	6H	21.33	22.27	21.79	22.71	23.16	21.99	22.92	22.44	23.36	23.82
	8H	21.47	22.34	21.93	22.79	23.25	22.19	23.07	22.65	23.51	23.97
	12H	21.55	22.33	22.02	22.81	23.28	22.33	23.12	22.81	23.59	24.06
8H	4H	21.17	22.04	21.63	22.49	22.95	21.66	22.54	22.12	22.98	23.44
	6H	21.80	22.53	22.29	23.02	23.49	22.40	23.12	22.89	23.61	24.09
	8H	22.00	22.65	22.50	23.15	23.64	22.67	23.32	23.18	23.83	24.31
	12H	22.12	22.70	22.63	23.19	23.75	22.88	23.45	23.38	23.94	24.50
12H	4H	21.21	22.00	21.69	22.47	22.94	21.69	22.47	22.17	22.95	23.42
	6H	21.87	22.52	22.37	23.03	23.51	22.44	23.09	22.95	23.60	24.08
	8H	22.12	22.69	22.62	23.18	23.74	22.77	23.34	23.27	23.83	24.39