

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: P1584306

Luminaire Tested: 14CZSP-43HE-L940-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584306
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-43HE-L940-S
Description: 1x4 CZSP LED Luminaire, 4000K CCT and 4000 lumens, 90CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

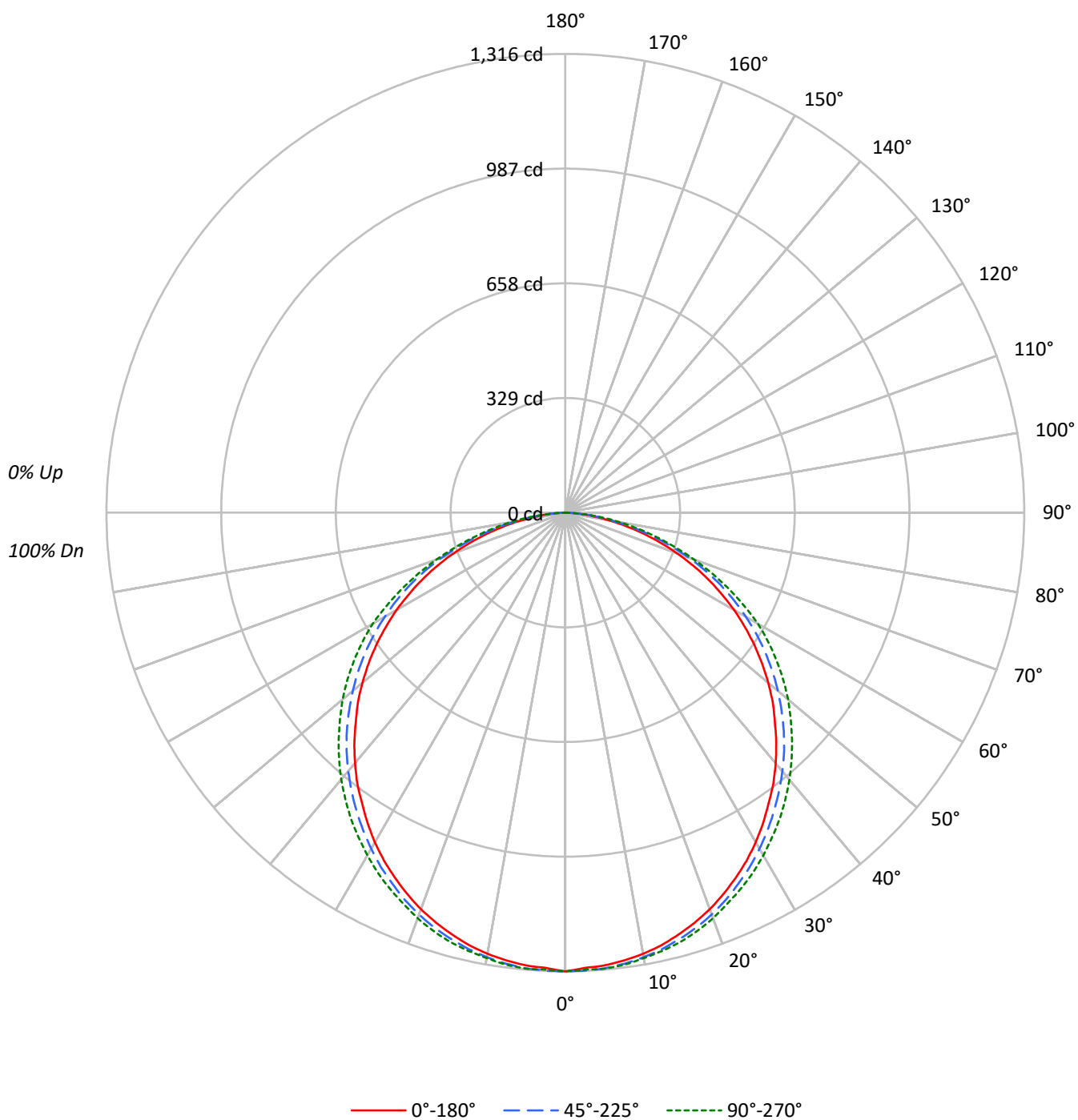
Lumens per Lamp: N/A
Luminaire Lumens: 3805.0 lumens
Efficiency: N/A
Efficacy: 131.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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	80	75		82	77	73		79	75	72	69
3	90	79	71	64	87	78	70	64	75	68	63		72	66	62		69	65	60	58
4	82	70	61	54	80	69	60	54	66	59	53		64	58	52		62	56	52	50
5	76	63	53	47	73	61	53	46	59	52	46		57	51	45		55	50	45	43
6	70	56	47	41	68	55	47	41	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	59	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°	4435	4435	4435
5°	4410	4438	4443
10°	4398	4431	4440
15°	4372	4417	4449
20°	4342	4400	4440
25°	4298	4367	4427
30°	4249	4332	4417
35°	4181	4294	4410
40°	4126	4260	4397
45°	4049	4222	4380
50°	3981	4172	4371
55°	3886	4113	4343
60°	3767	4031	4299
65°	3599	3920	4121
70°	3355	3702	3868
75°	2997	3339	3529
80°	2457	2816	3087
85°	1647	2057	2296

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4380 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.7	3.3
10°-20°	357.4	9.4
20°-30°	541.1	14.2
30°-40°	653.5	17.2
40°-50°	682.9	17.9
50°-60°	625.8	16.4
60°-70°	483.0	12.7
70°-80°	271.7	7.1
80°-90°	65.0	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°	1023.1	26.9
0°-40°	1676.6	44.1
0°-60°	2985.2	78.5
0°-90°	3805.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3805.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1316	1316	1316	1316	1316	
5°	1304	1313	1312	1313	1313	124
15°	1253	1264	1266	1271	1275	354
25°	1156	1166	1174	1181	1191	533
35°	1016	1029	1044	1058	1072	637
45°	850	866	886	904	919	657
55°	661	679	700	722	739	591
65°	451	471	492	511	517	446
75°	230	252	256	267	271	244
85°	43	49	53	58	59	55
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1316.2	1316.2	1316.2	1316.2	1316.2
2.5°	1307.2	1317.3	1315.0	1318.4	1312.2
5°	1303.8	1313.4	1312.2	1313.4	1313.4
7.5°	1295.4	1305.5	1305.0	1306.6	1307.8
10°	1285.3	1294.9	1294.9	1296.6	1297.7
12.5°	1271.3	1281.4	1282.5	1285.3	1287.6
15°	1253.4	1263.5	1266.3	1271.3	1275.3
17.5°	1233.3	1243.9	1248.4	1253.4	1258.5
20°	1210.9	1220.4	1227.1	1231.0	1238.3
22.5°	1184.5	1195.2	1202.5	1206.4	1214.2
25°	1156.0	1166.1	1174.5	1180.6	1190.7
27.5°	1125.7	1135.8	1145.9	1153.2	1164.9
30°	1092.1	1102.8	1113.4	1124.6	1135.3
32.5°	1055.7	1068.0	1079.8	1092.1	1103.9
35°	1016.5	1029.4	1044.0	1058.0	1072.0
37.5°	980.1	991.9	1007.0	1022.1	1036.1
40°	938.1	951.0	968.4	985.2	999.7
42.5°	895.5	909.5	928.6	944.8	960.5
45°	849.6	866.4	886.0	903.9	919.1
47.5°	807.1	821.6	841.2	860.8	876.5
50°	759.4	775.7	795.9	816.6	833.9
52.5°	711.3	728.1	748.8	769.5	787.5
55°	661.4	678.8	700.1	721.9	739.3
57.5°	610.5	629.0	650.8	672.6	690.0
60°	558.9	577.4	598.1	622.2	637.9
62.5°	505.2	525.9	545.5	567.9	577.4
65°	451.4	471.0	491.7	511.3	516.9
67.5°	396.5	416.7	435.2	448.1	455.3
70°	340.5	362.4	375.8	388.1	392.6
72.5°	285.1	306.9	314.8	326.5	331.0
75°	230.2	251.5	256.5	267.2	271.1
77.5°	177.0	196.6	198.3	210.6	213.9
80°	126.6	142.3	145.1	156.8	159.1
82.5°	81.2	92.4	96.3	106.4	109.8
85°	42.6	48.7	53.2	58.2	59.4
87.5°	14.0	17.4	14.6	15.1	14.0
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	16.89	18.54	17.25	18.85	19.17	17.43	19.08	17.79	19.39	19.71
	3H	18.66	20.16	19.04	20.48	20.84	19.28	20.78	19.66	21.10	21.46
	4H	19.29	20.70	19.69	21.04	21.42	19.95	21.36	20.35	21.71	22.08
	6H	19.70	21.00	20.11	21.37	21.76	20.43	21.73	20.84	22.10	22.49
	8H	19.80	21.05	20.23	21.44	21.84	20.58	21.82	21.00	22.21	22.61
	12H	19.85	21.05	20.28	21.43	21.86	20.66	21.85	21.09	22.23	22.66
4H	2H	17.61	19.02	18.01	19.37	19.74	18.03	19.44	18.43	19.79	20.16
	3H	19.61	20.79	20.02	21.18	21.58	20.11	21.29	20.51	21.68	22.08
	4H	20.36	21.43	20.79	21.85	22.28	20.90	21.97	21.33	22.38	22.82
	6H	20.89	21.83	21.35	22.27	22.72	21.50	22.44	21.96	22.88	23.33
	8H	21.03	21.90	21.49	22.35	22.81	21.70	22.57	22.16	23.01	23.48
	12H	21.11	21.90	21.59	22.37	22.84	21.82	22.60	22.30	23.08	23.55
8H	4H	20.70	21.57	21.16	22.02	22.48	21.18	22.05	21.64	22.49	22.96
	6H	21.34	22.07	21.83	22.55	23.03	21.89	22.62	22.38	23.10	23.58
	8H	21.54	22.19	22.05	22.70	23.18	22.15	22.80	22.66	23.30	23.79
	12H	21.67	22.25	22.18	22.74	23.30	22.33	22.90	22.84	23.39	23.95
12H	4H	20.74	21.52	21.22	22.00	22.47	21.20	21.99	21.68	22.46	22.93
	6H	21.40	22.05	21.90	22.55	23.04	21.93	22.58	22.44	23.09	23.57
	8H	21.65	22.22	22.15	22.71	23.27	22.23	22.81	22.74	23.30	23.86