

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: P1584269

Luminaire Tested: 14CZSP-37HE-L945

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584269
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2602-698-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-37HE-L945
Description: 1x4 CZSP LED Luminaire, 4500K CCT and 3500 lumens, 90CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

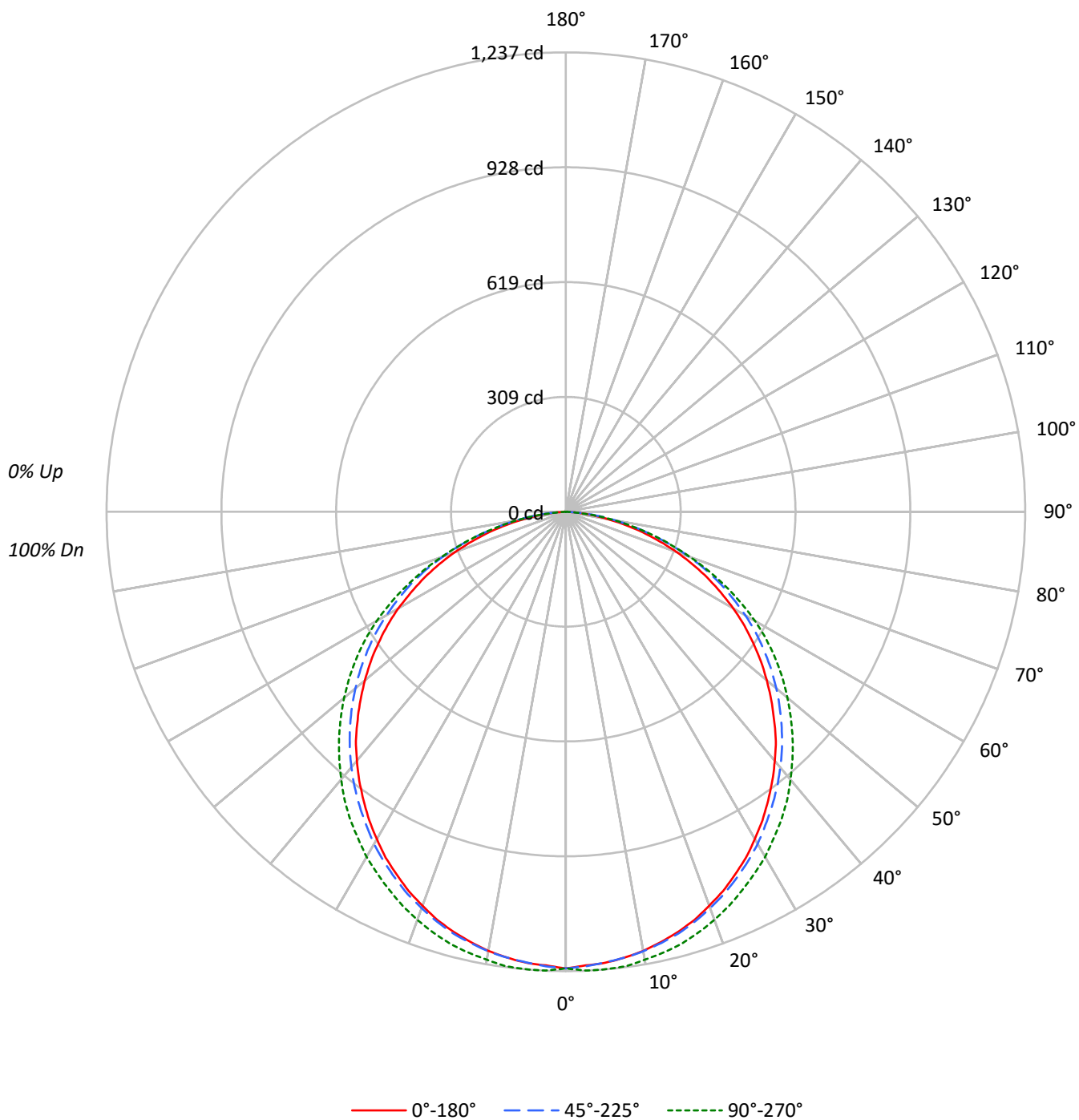
Lumens per Lamp: N/A
Luminaire Lumens: 3542.0 lumens
Efficiency: N/A
Efficacy: 143.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 24.7
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
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	100	96	106	102	98	94	97	94	91		94	91	88		90
2	99	90	84	78	96	89	82	77	85	80	75		82	77	73		79
3	90	79	71	65	87	78	70	64	75	68	63		72	66	62		69
4	82	70	61	55	80	69	61	54	66	59	53		64	58	53		62
5	76	63	54	47	73	61	53	47	59	52	46		57	51	46		55
6	70	56	47	41	68	55	47	41	54	46	40		52	45	40		50
7	65	51	42	36	63	50	42	36	49	41	36		47	40	35		46
8	60	47	38	32	59	46	38	32	44	37	32		43	36	32		42
9	56	43	34	29	55	42	34	29	41	34	29		40	33	28		39
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4143	4143	4143
5°	4124	4120	4183
10°	4108	4112	4191
15°	4084	4100	4201
20°	4048	4073	4193
25°	4008	4047	4180
30°	3960	4018	4176
35°	3905	3982	4163
40°	3850	3952	4140
45°	3779	3918	4116
50°	3703	3879	4085
55°	3619	3830	4047
60°	3511	3761	3964
65°	3351	3665	3785
70°	3126	3456	3513
75°	2789	3121	3151
80°	2268	2629	2606
85°	1477	1836	1434

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4116 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.5	3.3
10°-20°	333.7	9.4
20°-30°	505.4	14.3
30°-40°	610.6	17.2
40°-50°	637.8	18.0
50°-60°	584.0	16.5
60°-70°	448.8	12.7
70°-80°	249.9	7.1
80°-90°	55.3	1.6
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°	955.6	27.0
0°-40°	1566.2	44.2
0°-60°	2788.0	78.7
0°-90°	3542.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3542.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1230	1230	1230	1230	1230	
5°	1219	1232	1218	1225	1237	116
15°	1171	1182	1175	1187	1204	330
25°	1078	1091	1088	1105	1124	497
35°	949	963	968	991	1012	594
45°	793	810	822	846	864	612
55°	616	636	652	675	689	551
65°	420	442	460	469	475	415
75°	214	236	240	240	242	227
85°	38	45	48	39	37	50
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1229.6	1229.6	1229.6	1229.6	1229.6
2.5°	1222.7	1234.3	1225.0	1228.5	1236.6
5°	1219.2	1232.0	1218.1	1225.0	1236.6
7.5°	1211.1	1222.7	1211.1	1219.2	1234.3
10°	1200.7	1213.4	1201.9	1210.0	1225.0
12.5°	1186.8	1197.2	1189.1	1200.7	1215.7
15°	1170.6	1182.2	1175.2	1186.8	1204.2
17.5°	1152.1	1162.5	1156.7	1171.7	1188.0
20°	1128.9	1140.5	1135.9	1150.9	1169.4
22.5°	1105.8	1117.3	1113.9	1128.9	1148.6
25°	1078.0	1090.7	1088.4	1104.6	1124.3
27.5°	1050.2	1062.9	1061.8	1080.3	1098.8
30°	1017.8	1030.5	1032.8	1052.5	1073.3
32.5°	985.3	999.2	1000.4	1022.4	1042.1
35°	949.4	963.3	968.0	991.1	1012.0
37.5°	913.5	927.4	934.4	956.4	978.4
40°	875.3	890.4	898.5	921.7	941.3
42.5°	837.1	852.2	861.4	884.6	903.1
45°	793.1	810.5	822.1	846.4	863.8
47.5°	750.3	768.8	781.6	804.7	822.1
50°	706.3	726.0	739.9	763.0	779.2
52.5°	662.3	683.1	697.0	719.0	735.2
55°	616.0	635.7	651.9	675.0	688.9
57.5°	569.7	589.3	606.7	627.6	640.3
60°	521.0	541.9	558.1	578.9	588.2
62.5°	470.1	492.1	508.3	524.5	532.6
65°	420.3	442.3	459.7	468.9	474.7
67.5°	369.4	391.4	407.6	412.2	415.7
70°	317.3	339.3	350.8	353.1	356.6
72.5°	265.1	287.1	296.4	296.4	297.6
75°	214.2	236.2	239.7	239.7	242.0
77.5°	164.4	184.1	186.4	186.4	186.4
80°	116.9	132.0	135.5	135.5	134.3
82.5°	74.1	84.5	90.3	85.7	83.4
85°	38.2	45.2	47.5	39.4	37.1
87.5°	11.6	13.9	11.6	6.9	5.8
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	16.68	18.33	17.05	18.64	18.96	17.19	18.84	17.55	19.15	19.47
	3H	18.45	19.94	18.83	20.27	20.63	18.99	20.48	19.36	20.80	21.16
	4H	19.08	20.48	19.48	20.83	21.20	19.62	21.02	20.02	21.37	21.74
	6H	19.48	20.78	19.89	21.15	21.54	20.04	21.34	20.45	21.70	22.10
	8H	19.58	20.82	20.00	21.21	21.61	20.14	21.39	20.57	21.78	22.17
	12H	19.62	20.82	20.05	21.20	21.63	20.18	21.38	20.61	21.76	22.19
4H	2H	17.40	18.81	17.80	19.16	19.53	17.80	19.20	18.20	19.55	19.93
	3H	19.40	20.57	19.81	20.97	21.37	19.81	20.99	20.22	21.39	21.79
	4H	20.15	21.22	20.59	21.63	22.07	20.56	21.63	21.00	22.04	22.48
	6H	20.68	21.61	21.13	22.05	22.50	21.10	22.03	21.56	22.47	22.93
	8H	20.81	21.68	21.27	22.12	22.59	21.24	22.11	21.70	22.56	23.02
	12H	20.88	21.66	21.36	22.14	22.61	21.31	22.09	21.79	22.57	23.04
8H	4H	20.49	21.36	20.95	21.80	22.26	20.85	21.72	21.31	22.16	22.63
	6H	21.12	21.84	21.61	22.33	22.81	21.49	22.21	21.98	22.70	23.18
	8H	21.31	21.96	21.82	22.47	22.95	21.69	22.33	22.19	22.84	23.32
	12H	21.44	22.01	21.94	22.50	23.06	21.79	22.36	22.30	22.85	23.41
12H	4H	20.52	21.30	21.00	21.78	22.24	20.87	21.66	21.35	22.13	22.60
	6H	21.17	21.82	21.68	22.33	22.81	21.53	22.18	22.04	22.69	23.17
	8H	21.41	21.99	21.92	22.48	23.04	21.77	22.35	22.28	22.84	23.40