

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: P1584268

Luminaire Tested: 14CZSP-37HE-L945-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584268
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-37HE-L945-S
Description: 1x4 CZSP LED Luminaire, 4500K CCT and 3500 lumens, 90CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

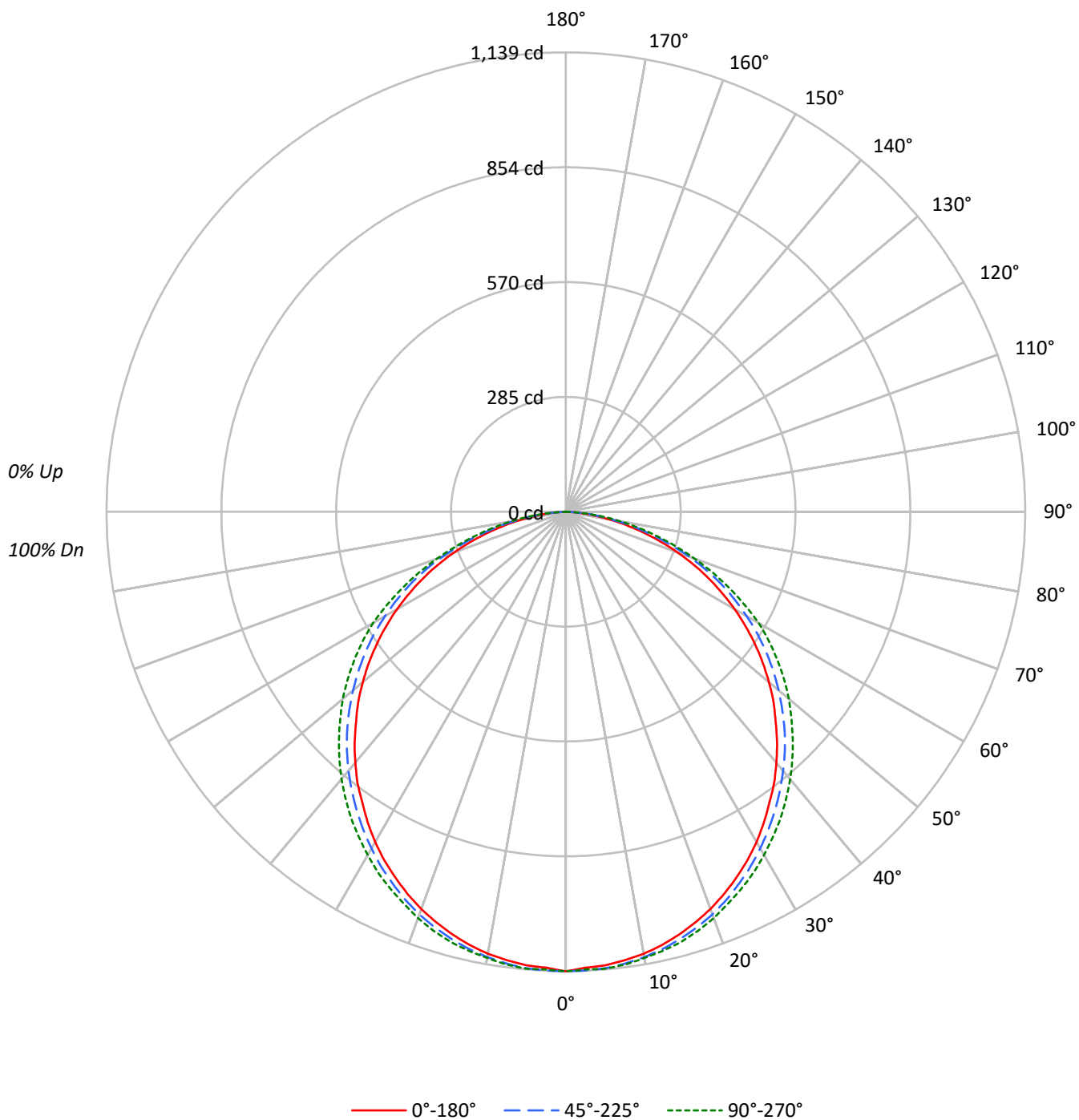
Lumens per Lamp: N/A
Luminaire Lumens: 3294.0 lumens
Efficiency: N/A
Efficacy: 133.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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			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°	3839	3839	3839
5°	3818	3842	3846
10°	3807	3836	3844
15°	3785	3824	3851
20°	3759	3809	3844
25°	3721	3780	3832
30°	3679	3750	3824
35°	3620	3718	3817
40°	3572	3687	3807
45°	3505	3655	3791
50°	3447	3612	3784
55°	3364	3561	3760
60°	3261	3490	3721
65°	3116	3394	3568
70°	2904	3205	3349
75°	2595	2892	3056
80°	2127	2437	2672
85°	1423	1782	1987

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3791 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.9	3.3
10°-20°	309.4	9.4
20°-30°	468.4	14.2
30°-40°	565.7	17.2
40°-50°	591.2	17.9
50°-60°	541.7	16.4
60°-70°	418.2	12.7
70°-80°	235.2	7.1
80°-90°	56.3	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°	885.7	26.9
0°-40°	1451.4	44.1
0°-60°	2584.3	78.5
0°-90°	3294.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3294.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1139	1139	1139	1139	1139	
5°	1129	1137	1136	1137	1137	107
15°	1085	1094	1096	1101	1104	306
25°	1001	1010	1017	1022	1031	461
35°	880	891	904	916	928	551
45°	736	750	767	782	796	568
55°	573	588	606	625	640	512
65°	391	408	426	443	448	386
75°	199	218	222	231	235	211
85°	37	42	46	50	51	47
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1139.4	1139.4	1139.4	1139.4	1139.4
2.5°	1131.6	1140.4	1138.4	1141.3	1136.0
5°	1128.7	1137.0	1136.0	1137.0	1137.0
7.5°	1121.5	1130.2	1129.7	1131.2	1132.1
10°	1112.7	1121.0	1121.0	1122.4	1123.4
12.5°	1100.6	1109.3	1110.3	1112.7	1114.7
15°	1085.1	1093.8	1096.2	1100.6	1104.0
17.5°	1067.6	1076.9	1080.7	1085.1	1089.5
20°	1048.2	1056.5	1062.3	1065.7	1072.0
22.5°	1025.5	1034.7	1041.0	1044.4	1051.2
25°	1000.7	1009.5	1016.7	1022.1	1030.8
27.5°	974.5	983.3	992.0	998.3	1008.5
30°	945.5	954.7	963.9	973.6	982.8
32.5°	913.9	924.6	934.8	945.5	955.6
35°	880.0	891.2	903.8	915.9	928.0
37.5°	848.5	858.7	871.8	884.9	897.0
40°	812.1	823.3	838.3	852.9	865.5
42.5°	775.3	787.4	803.9	817.9	831.5
45°	735.5	750.1	767.0	782.5	795.6
47.5°	698.7	711.3	728.2	745.2	758.8
50°	657.5	671.5	689.0	706.9	721.9
52.5°	615.8	630.3	648.2	666.2	681.7
55°	572.6	587.6	606.1	625.0	640.0
57.5°	528.5	544.5	563.4	582.3	597.3
60°	483.9	499.9	517.8	538.7	552.2
62.5°	437.3	455.3	472.2	491.6	499.9
65°	390.8	407.8	425.7	442.7	447.5
67.5°	343.3	360.7	376.7	387.9	394.2
70°	294.8	313.7	325.3	336.0	339.9
72.5°	246.8	265.7	272.5	282.7	286.5
75°	199.3	217.7	222.1	231.3	234.7
77.5°	153.2	170.2	171.6	182.3	185.2
80°	109.6	123.2	125.6	135.8	137.7
82.5°	70.3	80.0	83.4	92.1	95.0
85°	36.8	42.2	46.1	50.4	51.4
87.5°	12.1	15.0	12.6	13.1	12.1
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	16.39	18.04	16.75	18.35	18.67	16.93	18.58	17.29	18.89	19.20
	3H	18.16	19.66	18.54	19.98	20.34	18.78	20.28	19.16	20.60	20.96
	4H	18.79	20.20	19.19	20.54	20.92	19.45	20.86	19.85	21.21	21.58
	6H	19.20	20.50	19.61	20.87	21.26	19.93	21.23	20.34	21.60	21.99
	8H	19.30	20.55	19.72	20.94	21.33	20.07	21.32	20.50	21.71	22.11
	12H	19.35	20.54	19.78	20.93	21.35	20.16	21.35	20.59	21.73	22.16
4H	2H	17.11	18.52	17.51	18.87	19.24	17.53	18.94	17.93	19.29	19.66
	3H	19.11	20.29	19.51	20.68	21.08	19.60	20.79	20.01	21.18	21.58
	4H	19.86	20.93	20.29	21.34	21.78	20.40	21.47	20.83	21.88	22.32
	6H	20.39	21.32	20.84	21.76	22.22	21.00	21.94	21.46	22.38	22.83
	8H	20.53	21.40	20.99	21.85	22.31	21.19	22.07	21.65	22.51	22.97
	12H	20.61	21.39	21.09	21.87	22.34	21.32	22.10	21.80	22.58	23.04
8H	4H	20.20	21.07	20.66	21.52	21.98	20.68	21.55	21.14	21.99	22.46
	6H	20.84	21.57	21.33	22.05	22.53	21.39	22.12	21.88	22.60	23.08
	8H	21.04	21.69	21.55	22.20	22.68	21.65	22.30	22.16	22.80	23.29
	12H	21.17	21.74	21.68	22.23	22.79	21.83	22.40	22.33	22.89	23.45
12H	4H	20.24	21.02	20.72	21.50	21.97	20.70	21.49	21.18	21.96	22.43
	6H	20.90	21.55	21.40	22.05	22.54	21.43	22.08	21.93	22.58	23.07
	8H	21.15	21.72	21.65	22.21	22.77	21.73	22.31	22.24	22.80	23.36