

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: P1584258

Luminaire Tested: 14CZSP-37HE-L845-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584258
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-L845-S
Description: 1x4 CZSP LED Luminaire, 4500K CCT and 3500 lumens, 80CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

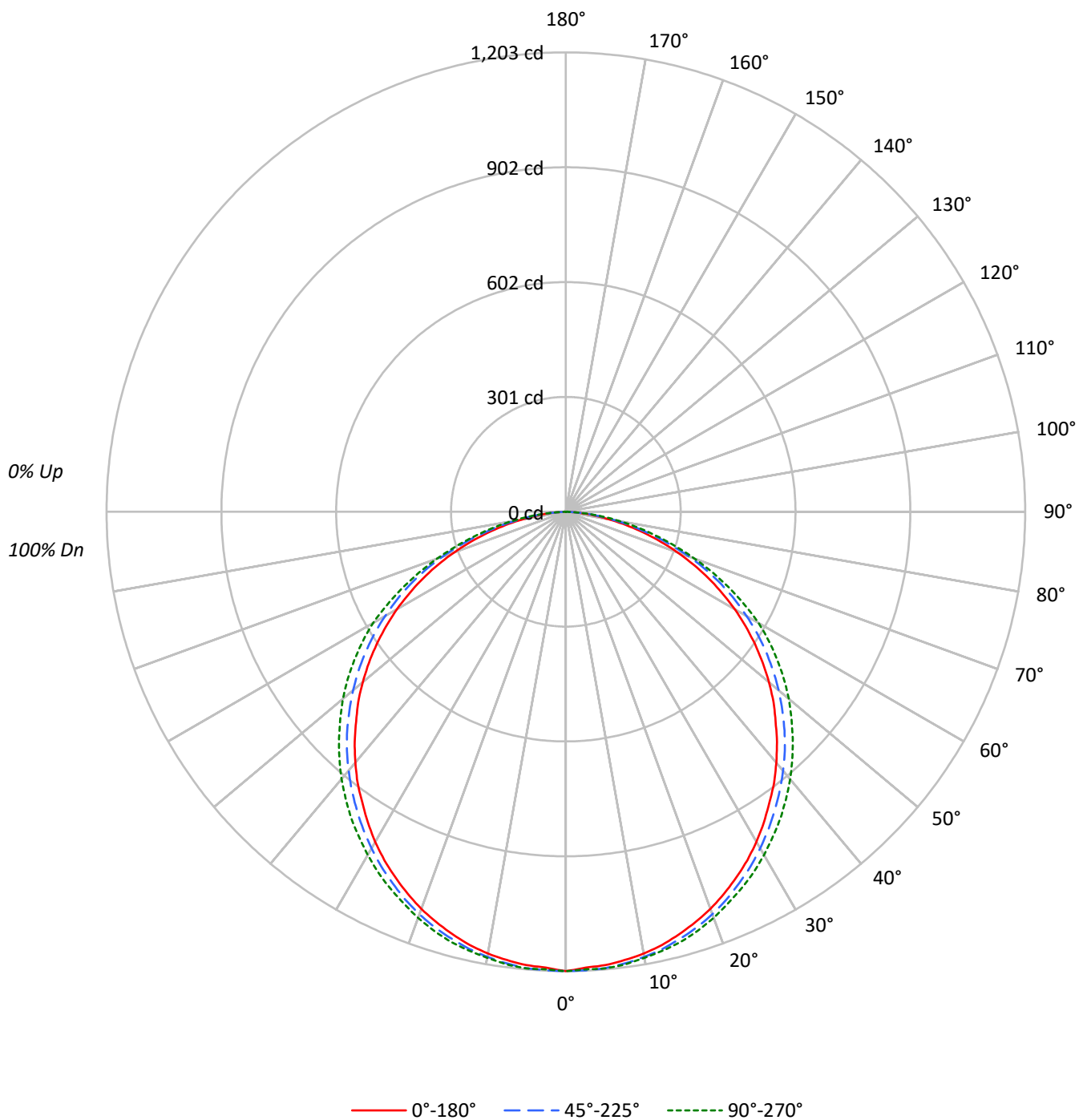
Lumens per Lamp: N/A
Luminaire Lumens: 3478.0 lumens
Efficiency: N/A
Efficacy: 140.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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
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		93	91	88		90
2	99	90	83	78	96	88	82	77	85	80	75		82	77	73		79
3	90	79	71	64	87	78	70	64	75	68	63		72	66	62		69
4	82	70	61	54	80	69	60	54	66	59	53		64	58	52		62
5	76	63	53	47	73	61	53	46	59	52	46		57	51	45		55
6	70	56	47	41	68	55	47	41	53	46	40		52	45	40		50
7	65	51	42	36	63	50	42	36	49	41	35		47	40	35		46
8	60	46	38	32	59	46	38	32	44	37	32		43	36	31		42
9	56	43	34	29	55	42	34	29	41	34	28		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°	4054	4054	4054
5°	4031	4057	4061
10°	4020	4050	4058
15°	3997	4038	4066
20°	3969	4022	4059
25°	3928	3991	4047
30°	3884	3960	4038
35°	3822	3925	4030
40°	3772	3893	4020
45°	3701	3859	4003
50°	3639	3814	3996
55°	3552	3759	3970
60°	3443	3684	3930
65°	3290	3584	3767
70°	3067	3384	3536
75°	2739	3053	3226
80°	2245	2573	2821
85°	1504	1879	2099

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4003 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.9	3.3
10°-20°	326.6	9.4
20°-30°	494.6	14.2
30°-40°	597.3	17.2
40°-50°	624.2	17.9
50°-60°	572.0	16.4
60°-70°	441.5	12.7
70°-80°	248.4	7.1
80°-90°	59.4	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°	935.2	26.9
0°-40°	1532.5	44.1
0°-60°	2728.7	78.5
0°-90°	3478.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3478.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1203	1203	1203	1203	1203	
5°	1192	1200	1200	1200	1200	113
15°	1146	1155	1158	1162	1166	323
25°	1057	1066	1074	1079	1088	487
35°	929	941	954	967	980	582
45°	777	792	810	826	840	600
55°	605	620	640	660	676	540
65°	413	430	450	467	472	408
75°	210	230	234	244	248	223
85°	39	44	49	53	54	50
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1203.0	1203.0	1203.0	1203.0	1203.0
2.5°	1194.9	1204.1	1202.0	1205.1	1199.5
5°	1191.8	1200.5	1199.5	1200.5	1200.5
7.5°	1184.1	1193.3	1192.8	1194.3	1195.4
10°	1174.9	1183.6	1183.6	1185.1	1186.1
12.5°	1162.1	1171.3	1172.3	1174.9	1176.9
15°	1145.7	1154.9	1157.5	1162.1	1165.7
17.5°	1127.3	1137.0	1141.1	1145.7	1150.3
20°	1106.8	1115.5	1121.6	1125.2	1131.9
22.5°	1082.7	1092.5	1099.1	1102.7	1109.9
25°	1056.6	1065.8	1073.5	1079.2	1088.4
27.5°	1029.0	1038.2	1047.4	1054.1	1064.8
30°	998.3	1008.0	1017.7	1028.0	1037.7
32.5°	965.0	976.3	987.0	998.3	1009.0
35°	929.2	940.9	954.2	967.0	979.8
37.5°	895.9	906.6	920.5	934.3	947.1
40°	857.5	869.3	885.1	900.5	913.8
42.5°	818.6	831.4	848.8	863.6	878.0
45°	776.6	792.0	809.9	826.3	840.1
47.5°	737.7	751.0	768.9	786.8	801.2
50°	694.2	709.0	727.5	746.4	762.3
52.5°	650.2	665.5	684.5	703.4	719.8
55°	604.6	620.5	639.9	659.9	675.8
57.5°	558.0	574.9	594.9	614.8	630.7
60°	510.9	527.8	546.7	568.8	583.1
62.5°	461.8	480.7	498.6	519.1	527.8
65°	412.6	430.5	449.5	467.4	472.5
67.5°	362.4	380.9	397.8	409.5	416.2
70°	311.3	331.2	343.5	354.8	358.9
72.5°	260.6	280.5	287.7	298.5	302.6
75°	210.4	229.9	234.5	244.2	247.8
77.5°	161.8	179.7	181.2	192.5	195.6
80°	115.7	130.0	132.6	143.3	145.4
82.5°	74.2	84.5	88.1	97.3	100.3
85°	38.9	44.5	48.6	53.2	54.3
87.5°	12.8	15.9	13.3	13.8	12.8
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	16.58	18.23	16.94	18.54	18.85	17.11	18.76	17.48	19.08	19.39
	3H	18.35	19.84	18.73	20.17	20.53	18.97	20.47	19.35	20.79	21.15
	4H	18.98	20.38	19.38	20.73	21.11	19.64	21.05	20.04	21.40	21.77
	6H	19.39	20.69	19.80	21.05	21.45	20.12	21.42	20.53	21.79	22.18
	8H	19.49	20.74	19.91	21.12	21.52	20.26	21.51	20.69	21.90	22.30
	12H	19.54	20.73	19.97	21.12	21.54	20.35	21.54	20.78	21.92	22.35
4H	2H	17.30	18.71	17.70	19.05	19.43	17.72	19.13	18.12	19.48	19.85
	3H	19.29	20.47	19.70	20.87	21.27	19.79	20.97	20.20	21.37	21.77
	4H	20.05	21.12	20.48	21.53	21.97	20.59	21.66	21.02	22.07	22.51
	6H	20.58	21.51	21.03	21.95	22.41	21.19	22.13	21.65	22.57	23.02
	8H	20.72	21.59	21.18	22.03	22.50	21.38	22.26	21.84	22.70	23.16
	12H	20.80	21.58	21.28	22.06	22.53	21.50	22.29	21.98	22.76	23.23
8H	4H	20.39	21.26	20.85	21.70	22.17	20.87	21.74	21.33	22.18	22.65
	6H	21.03	21.76	21.52	22.24	22.72	21.58	22.30	22.07	22.79	23.27
	8H	21.23	21.88	21.74	22.39	22.87	21.84	22.49	22.34	22.99	23.48
	12H	21.36	21.93	21.86	22.42	22.98	22.02	22.59	22.52	23.08	23.64
12H	4H	20.43	21.21	20.91	21.69	22.15	20.89	21.67	21.37	22.15	22.62
	6H	21.08	21.74	21.59	22.24	22.73	21.61	22.27	22.12	22.77	23.26
	8H	21.34	21.91	21.84	22.40	22.96	21.92	22.50	22.43	22.99	23.55