

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: P1584539

Luminaire Tested: 14CZSP-A-35-L845

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584539
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2603-724-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-A-35-L845
Description: 1x4 CZSP LED Luminaire, 4500K CCT and 3000 lumens, 80CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

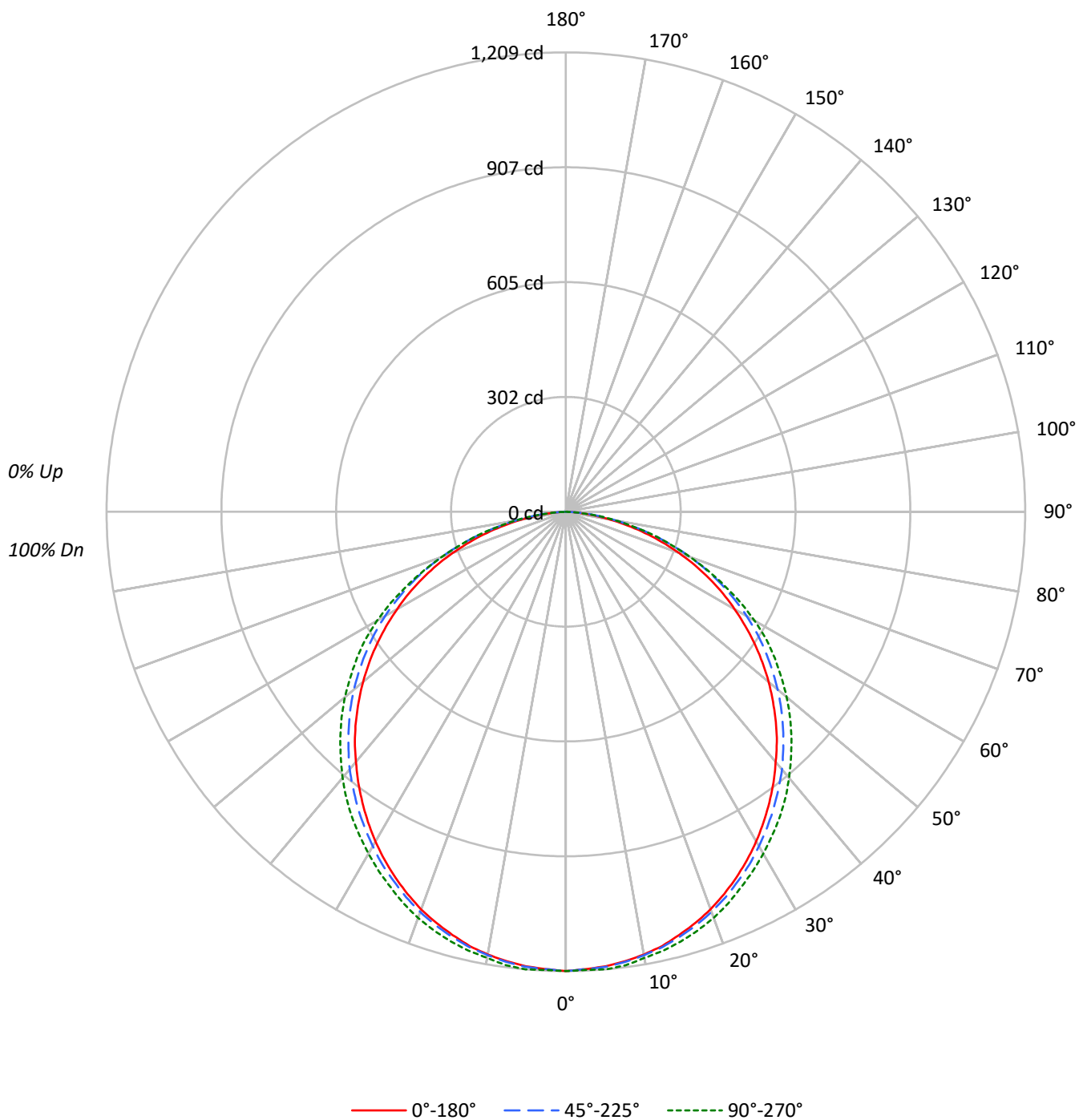
Lumens per Lamp: N/A
Luminaire Lumens: 3488.0 lumens
Efficiency: N/A
Efficacy: 150.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 23.2
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	53		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	29		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°	4073	4073	4073
5°	4061	4068	4089
10°	4048	4055	4080
15°	4022	4040	4084
20°	3994	4019	4079
25°	3948	3987	4056
30°	3899	3955	4043
35°	3841	3922	4037
40°	3780	3894	4021
45°	3726	3853	4001
50°	3654	3816	3979
55°	3566	3766	3942
60°	3457	3707	3868
65°	3322	3603	3677
70°	3117	3423	3423
75°	2800	3110	3123
80°	2307	2629	2629
85°	1601	1918	1678

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4001 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.5	3.3
10°-20°	327.9	9.4
20°-30°	496.3	14.2
30°-40°	599.2	17.2
40°-50°	626.0	17.9
50°-60°	573.5	16.4
60°-70°	442.1	12.7
70°-80°	249.4	7.2
80°-90°	59.0	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°	938.8	26.9
0°-40°	1537.9	44.1
0°-60°	2737.4	78.5
0°-90°	3488.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3488.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1209	1209	1209	1209	1209	
5°	1201	1209	1203	1205	1209	114
15°	1153	1160	1158	1168	1171	325
25°	1062	1071	1072	1087	1091	489
35°	934	946	953	974	981	584
45°	782	795	809	832	840	603
55°	607	622	641	665	671	542
65°	417	430	452	467	461	412
75°	215	232	239	245	240	228
85°	41	46	50	53	43	52
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1208.8	1208.8	1208.8	1208.8	1208.8
2.5°	1204.7	1213.0	1204.7	1208.8	1206.8
5°	1200.6	1208.8	1202.6	1204.7	1208.8
7.5°	1193.3	1201.6	1195.4	1198.5	1203.7
10°	1183.0	1191.2	1185.0	1190.2	1192.3
12.5°	1170.6	1177.8	1173.7	1179.9	1183.0
15°	1153.0	1160.2	1158.2	1167.5	1170.6
17.5°	1134.4	1142.6	1140.6	1152.0	1155.1
20°	1113.7	1120.9	1120.9	1131.3	1137.5
22.5°	1088.9	1097.1	1098.2	1109.6	1115.8
25°	1062.0	1071.3	1072.3	1086.8	1090.9
27.5°	1033.0	1042.3	1046.5	1062.0	1066.1
30°	1002.0	1011.3	1016.5	1034.1	1039.2
32.5°	968.9	980.3	985.5	1005.1	1010.3
35°	933.8	946.2	953.4	974.1	981.3
37.5°	897.6	910.0	919.3	941.0	949.3
40°	859.3	872.8	885.2	906.9	914.1
42.5°	822.1	835.5	846.9	869.7	876.9
45°	781.8	795.2	808.6	832.4	839.7
47.5°	739.4	753.8	769.3	791.1	800.4
50°	697.0	711.4	728.0	750.7	759.0
52.5°	652.5	668.0	684.6	708.3	714.5
55°	607.0	622.5	641.1	664.9	671.1
57.5°	560.5	577.0	596.7	619.4	625.6
60°	512.9	529.4	550.1	571.8	573.9
62.5°	466.4	480.8	501.5	522.2	519.1
65°	416.7	430.2	451.9	467.4	461.2
67.5°	367.1	381.6	401.2	412.6	404.3
70°	316.4	331.9	347.4	355.7	347.4
72.5°	265.8	282.3	293.7	298.8	291.6
75°	215.1	231.6	238.9	245.1	239.9
77.5°	166.5	182.0	185.1	192.3	185.1
80°	118.9	133.4	135.5	142.7	135.5
82.5°	76.5	85.8	90.0	96.2	88.9
85°	41.4	46.5	49.6	52.7	43.4
87.5°	14.5	16.5	14.5	12.4	5.2
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	16.59	18.24	16.96	18.56	18.87	17.14	18.79	17.50	19.10	19.41
	3H	18.38	19.87	18.76	20.20	20.56	18.94	20.44	19.32	20.76	21.12
	4H	19.02	20.43	19.42	20.77	21.15	19.59	21.00	19.99	21.34	21.72
	6H	19.44	20.75	19.85	21.11	21.50	20.03	21.33	20.44	21.70	22.09
	8H	19.55	20.80	19.98	21.19	21.58	20.15	21.40	20.57	21.79	22.18
	12H	19.61	20.80	20.04	21.18	21.61	20.21	21.40	20.64	21.78	22.21
4H	2H	17.32	18.73	17.72	19.07	19.45	17.74	19.15	18.14	19.50	19.87
	3H	19.33	20.51	19.73	20.90	21.30	19.78	20.96	20.19	21.36	21.76
	4H	20.09	21.16	20.52	21.57	22.01	20.56	21.63	20.99	22.04	22.48
	6H	20.64	21.57	21.09	22.01	22.47	21.13	22.06	21.58	22.50	22.96
	8H	20.78	21.66	21.24	22.10	22.56	21.29	22.17	21.75	22.61	23.07
	12H	20.87	21.65	21.35	22.13	22.60	21.39	22.17	21.86	22.64	23.11
8H	4H	20.44	21.31	20.90	21.75	22.22	20.85	21.72	21.31	22.16	22.63
	6H	21.10	21.82	21.59	22.31	22.78	21.53	22.26	22.02	22.74	23.22
	8H	21.30	21.95	21.81	22.46	22.94	21.76	22.41	22.27	22.92	23.40
	12H	21.44	22.01	21.94	22.50	23.06	21.91	22.49	22.42	22.98	23.54
12H	4H	20.47	21.26	20.95	21.73	22.20	20.87	21.66	21.35	22.13	22.60
	6H	21.15	21.80	21.66	22.31	22.79	21.57	22.22	22.08	22.73	23.21
	8H	21.41	21.98	21.91	22.47	23.03	21.86	22.43	22.36	22.92	23.48