

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: P1584537

Luminaire Tested: 14CZSP-A-35-L840

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584537
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-L840
Description: 1x4 CZSP LED Luminaire, 4000K CCT and 3000 lumens, 80CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

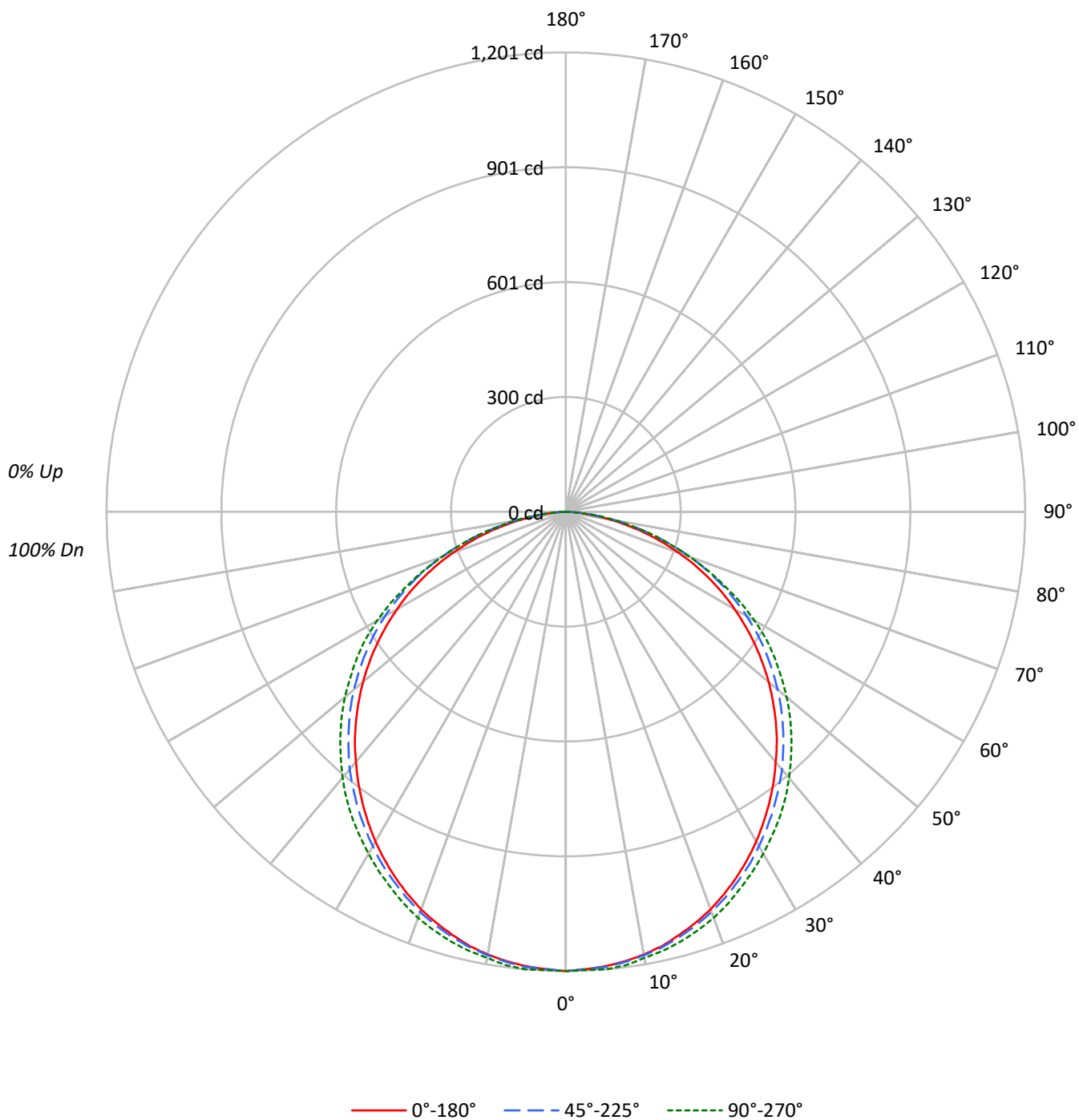
Lumens per Lamp: N/A
Luminaire Lumens: 3465.0 lumens
Efficiency: N/A
Efficacy: 149.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	4047	4047	4047
5°	4034	4041	4062
10°	4021	4028	4052
15°	3996	4013	4056
20°	3967	3993	4052
25°	3922	3961	4029
30°	3873	3929	4017
35°	3816	3896	4010
40°	3755	3868	3994
45°	3701	3828	3975
50°	3630	3791	3953
55°	3542	3742	3917
60°	3434	3683	3842
65°	3301	3579	3653
70°	3096	3401	3401
75°	2782	3089	3102
80°	2292	2612	2612
85°	1589	1906	1666

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3975 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.7	3.3
10°-20°	325.8	9.4
20°-30°	493.1	14.2
30°-40°	595.2	17.2
40°-50°	621.9	17.9
50°-60°	569.7	16.4
60°-70°	439.2	12.7
70°-80°	247.8	7.2
80°-90°	58.6	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°	932.6	26.9
0°-40°	1527.8	44.1
0°-60°	2719.3	78.5
0°-90°	3465.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3465.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1201	1201	1201	1201	1201	
5°	1193	1201	1195	1197	1201	113
15°	1145	1153	1150	1160	1163	323
25°	1055	1064	1065	1080	1084	486
35°	928	940	947	968	975	580
45°	777	790	803	827	834	599
55°	603	618	637	660	667	539
65°	414	427	449	464	458	409
75°	214	230	237	244	238	227
85°	41	46	49	52	43	52
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1200.9	1200.9	1200.9	1200.9	1200.9
2.5°	1196.7	1205.0	1196.7	1200.9	1198.8
5°	1192.6	1200.9	1194.7	1196.7	1200.9
7.5°	1185.4	1193.7	1187.5	1190.6	1195.7
10°	1175.2	1183.4	1177.2	1182.4	1184.4
12.5°	1162.8	1170.0	1165.9	1172.1	1175.2
15°	1145.4	1152.6	1150.5	1159.8	1162.8
17.5°	1126.9	1135.1	1133.1	1144.4	1147.4
20°	1106.4	1113.5	1113.5	1123.8	1130.0
22.5°	1081.7	1089.9	1090.9	1102.2	1108.4
25°	1055.0	1064.2	1065.3	1079.6	1083.8
27.5°	1026.2	1035.5	1039.6	1055.0	1059.1
30°	995.4	1004.7	1009.8	1027.3	1032.4
32.5°	962.5	973.8	979.0	998.5	1003.6
35°	927.6	939.9	947.1	967.7	974.9
37.5°	891.7	904.0	913.2	934.8	943.0
40°	853.6	867.0	879.3	900.9	908.1
42.5°	816.7	830.0	841.3	863.9	871.1
45°	776.6	790.0	803.3	826.9	834.1
47.5°	734.5	748.9	764.3	785.8	795.1
50°	692.4	706.7	723.2	745.8	754.0
52.5°	648.2	663.6	680.0	703.7	709.8
55°	603.0	618.4	636.9	660.5	666.7
57.5°	556.8	573.2	592.7	615.3	621.5
60°	509.5	526.0	546.5	568.1	570.1
62.5°	463.3	477.7	498.2	518.8	515.7
65°	414.0	427.3	448.9	464.3	458.2
67.5°	364.7	379.1	398.6	409.9	401.7
70°	314.3	329.7	345.2	353.4	345.2
72.5°	264.0	280.4	291.7	296.9	289.7
75°	213.7	230.1	237.3	243.5	238.3
77.5°	165.4	180.8	183.9	191.1	183.9
80°	118.1	132.5	134.6	141.8	134.6
82.5°	76.0	85.3	89.4	95.5	88.3
85°	41.1	46.2	49.3	52.4	43.1
87.5°	14.4	16.4	14.4	12.3	5.1
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	16.57	18.22	16.93	18.53	18.85	17.11	18.76	17.48	19.08	19.39
	3H	18.36	19.85	18.73	20.18	20.54	18.92	20.41	19.30	20.74	21.10
	4H	19.00	20.40	19.39	20.75	21.13	19.57	20.97	19.96	21.32	21.69
	6H	19.42	20.72	19.83	21.09	21.48	20.01	21.31	20.42	21.67	22.06
	8H	19.53	20.77	19.95	21.16	21.56	20.13	21.37	20.55	21.76	22.16
	12H	19.58	20.78	20.01	21.16	21.59	20.19	21.38	20.61	21.76	22.19
4H	2H	17.30	18.70	17.69	19.05	19.42	17.72	19.13	18.12	19.47	19.85
	3H	19.30	20.48	19.71	20.88	21.28	19.76	20.94	20.17	21.33	21.73
	4H	20.07	21.14	20.50	21.55	21.99	20.54	21.61	20.97	22.02	22.45
	6H	20.61	21.55	21.07	21.99	22.44	21.11	22.04	21.56	22.48	22.93
	8H	20.76	21.63	21.22	22.07	22.54	21.27	22.14	21.73	22.59	23.05
	12H	20.84	21.63	21.32	22.10	22.57	21.36	22.15	21.84	22.62	23.09
8H	4H	20.41	21.29	20.87	21.73	22.19	20.83	21.70	21.29	22.14	22.61
	6H	21.07	21.80	21.57	22.29	22.76	21.51	22.23	22.00	22.72	23.20
	8H	21.28	21.93	21.79	22.43	22.92	21.74	22.39	22.25	22.90	23.38
	12H	21.42	21.99	21.92	22.48	23.04	21.89	22.47	22.40	22.96	23.52
12H	4H	20.45	21.24	20.93	21.71	22.18	20.85	21.64	21.33	22.11	22.58
	6H	21.13	21.78	21.64	22.29	22.77	21.55	22.20	22.06	22.71	23.19
	8H	21.39	21.96	21.89	22.45	23.01	21.83	22.41	22.34	22.90	23.46