

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: P1584556

Luminaire Tested: 14CZSP-A-37HE-L840-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584556
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-A-37HE-L840-S
Description: 1x4 CZSP LED Luminaire, 4000K CCT and 3500 lumens, 80CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

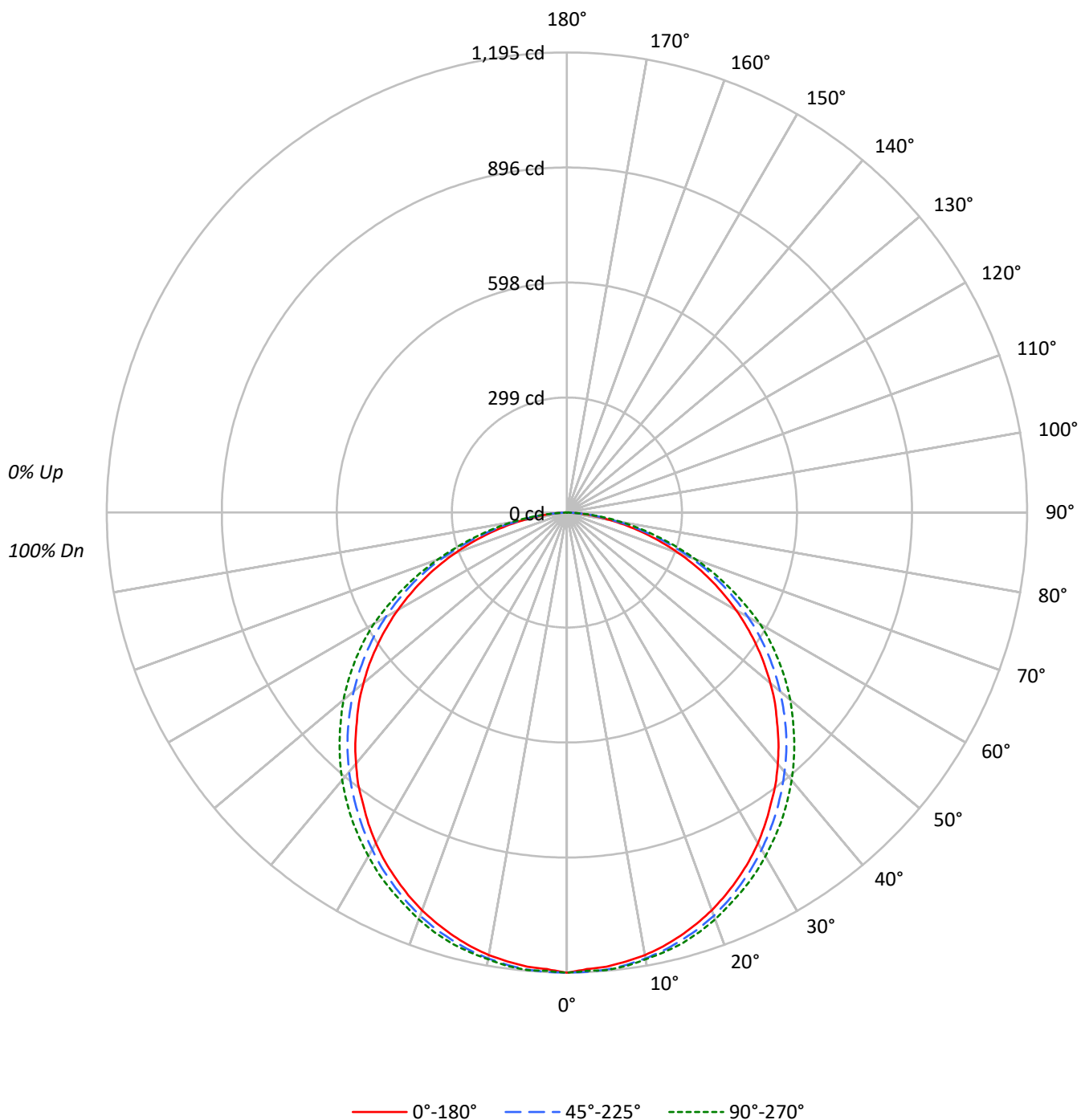
Lumens per Lamp: N/A
Luminaire Lumens: 3456.0 lumens
Efficiency: N/A
Efficacy: 139.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	4028	4028	4028
5°	4005	4032	4035
10°	3995	4024	4033
15°	3972	4012	4041
20°	3944	3997	4033
25°	3903	3966	4021
30°	3860	3935	4012
35°	3798	3900	4005
40°	3748	3869	3994
45°	3677	3835	3978
50°	3616	3790	3970
55°	3530	3736	3945
60°	3421	3661	3905
65°	3269	3561	3743
70°	3047	3362	3513
75°	2722	3033	3205
80°	2232	2558	2804
85°	1496	1867	2084

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3978 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.2	3.3
10°-20°	324.6	9.4
20°-30°	491.5	14.2
30°-40°	593.5	17.2
40°-50°	620.3	17.9
50°-60°	568.4	16.4
60°-70°	438.7	12.7
70°-80°	246.8	7.1
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°	929.3	26.9
0°-40°	1522.8	44.1
0°-60°	2711.4	78.5
0°-90°	3456.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3456.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1195	1195	1195	1195	1195	
5°	1184	1193	1192	1193	1193	112
15°	1138	1148	1150	1155	1158	321
25°	1050	1059	1067	1072	1082	484
35°	923	935	948	961	974	579
45°	772	787	805	821	835	596
55°	601	616	636	656	672	537
65°	410	428	447	464	470	405
75°	209	228	233	243	246	222
85°	39	44	48	53	54	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1195.4	1195.4	1195.4	1195.4	1195.4
2.5°	1187.3	1196.5	1194.4	1197.5	1191.9
5°	1184.2	1192.9	1191.9	1192.9	1192.9
7.5°	1176.6	1185.8	1185.3	1186.8	1187.8
10°	1167.5	1176.1	1176.1	1177.6	1178.6
12.5°	1154.7	1163.9	1164.9	1167.5	1169.5
15°	1138.5	1147.6	1150.2	1154.7	1158.3
17.5°	1120.1	1129.8	1133.9	1138.5	1143.0
20°	1099.8	1108.4	1114.6	1118.1	1124.7
22.5°	1075.9	1085.6	1092.2	1095.7	1102.9
25°	1049.9	1059.1	1066.7	1072.3	1081.5
27.5°	1022.5	1031.6	1040.8	1047.4	1058.1
30°	992.0	1001.6	1011.3	1021.5	1031.1
32.5°	958.9	970.1	980.8	992.0	1002.6
35°	923.3	935.0	948.2	960.9	973.6
37.5°	890.2	900.9	914.6	928.4	941.1
40°	852.1	863.8	879.5	894.8	908.0
42.5°	813.4	826.1	843.4	858.2	872.4
45°	771.7	787.0	804.8	821.0	834.8
47.5°	733.0	746.3	764.1	781.9	796.1
50°	689.8	704.5	722.9	741.7	757.4
52.5°	646.0	661.3	680.1	698.9	715.2
55°	600.8	616.5	635.9	655.7	671.5
57.5°	554.5	571.3	591.1	610.9	626.7
60°	507.7	524.5	543.3	565.2	579.4
62.5°	458.8	477.7	495.5	515.8	524.5
65°	410.0	427.8	446.6	464.4	469.5
67.5°	360.2	378.5	395.3	407.0	413.6
70°	309.3	329.1	341.3	352.5	356.6
72.5°	258.9	278.8	285.9	296.6	300.6
75°	209.1	228.4	233.0	242.6	246.2
77.5°	160.7	178.6	180.1	191.3	194.3
80°	115.0	129.2	131.8	142.4	144.5
82.5°	73.8	83.9	87.5	96.7	99.7
85°	38.7	44.3	48.3	52.9	53.9
87.5°	12.7	15.8	13.2	13.7	12.7
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	16.55	18.20	16.92	18.52	18.83	17.09	18.74	17.46	19.06	19.37
	3H	18.33	19.82	18.71	20.15	20.51	18.95	20.44	19.33	20.77	21.13
	4H	18.96	20.36	19.35	20.71	21.09	19.62	21.03	20.02	21.37	21.75
	6H	19.36	20.67	19.77	21.03	21.42	20.10	21.40	20.51	21.76	22.15
	8H	19.47	20.71	19.89	21.10	21.50	20.24	21.49	20.67	21.88	22.27
	12H	19.52	20.71	19.95	21.09	21.52	20.32	21.52	20.75	21.90	22.33
4H	2H	17.28	18.68	17.68	19.03	19.41	17.70	19.11	18.10	19.45	19.83
	3H	19.27	20.45	19.68	20.85	21.25	19.77	20.95	20.18	21.35	21.75
	4H	20.03	21.10	20.46	21.51	21.95	20.57	21.64	21.00	22.05	22.48
	6H	20.56	21.49	21.01	21.93	22.39	21.17	22.10	21.62	22.54	23.00
	8H	20.70	21.57	21.16	22.01	22.48	21.36	22.23	21.82	22.68	23.14
	12H	20.78	21.56	21.26	22.04	22.50	21.48	22.27	21.96	22.74	23.21
8H	4H	20.37	21.24	20.83	21.68	22.15	20.84	21.72	21.30	22.16	22.62
	6H	21.01	21.73	21.50	22.22	22.70	21.56	22.28	22.05	22.77	23.24
	8H	21.21	21.86	21.72	22.36	22.85	21.81	22.46	22.32	22.97	23.46
	12H	21.34	21.91	21.84	22.40	22.96	22.00	22.57	22.50	23.06	23.62
12H	4H	20.40	21.19	20.88	21.66	22.13	20.87	21.65	21.35	22.13	22.60
	6H	21.06	21.71	21.57	22.22	22.71	21.59	22.25	22.10	22.75	23.24
	8H	21.31	21.89	21.82	22.38	22.94	21.90	22.48	22.41	22.97	23.53