

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: P1584254

Luminaire Tested: 14CZSP-37HE-L835-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584254
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-L835-S
Description: 1x4 CZSP LED Luminaire, 3500K CCT and 3500 lumens, 80CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

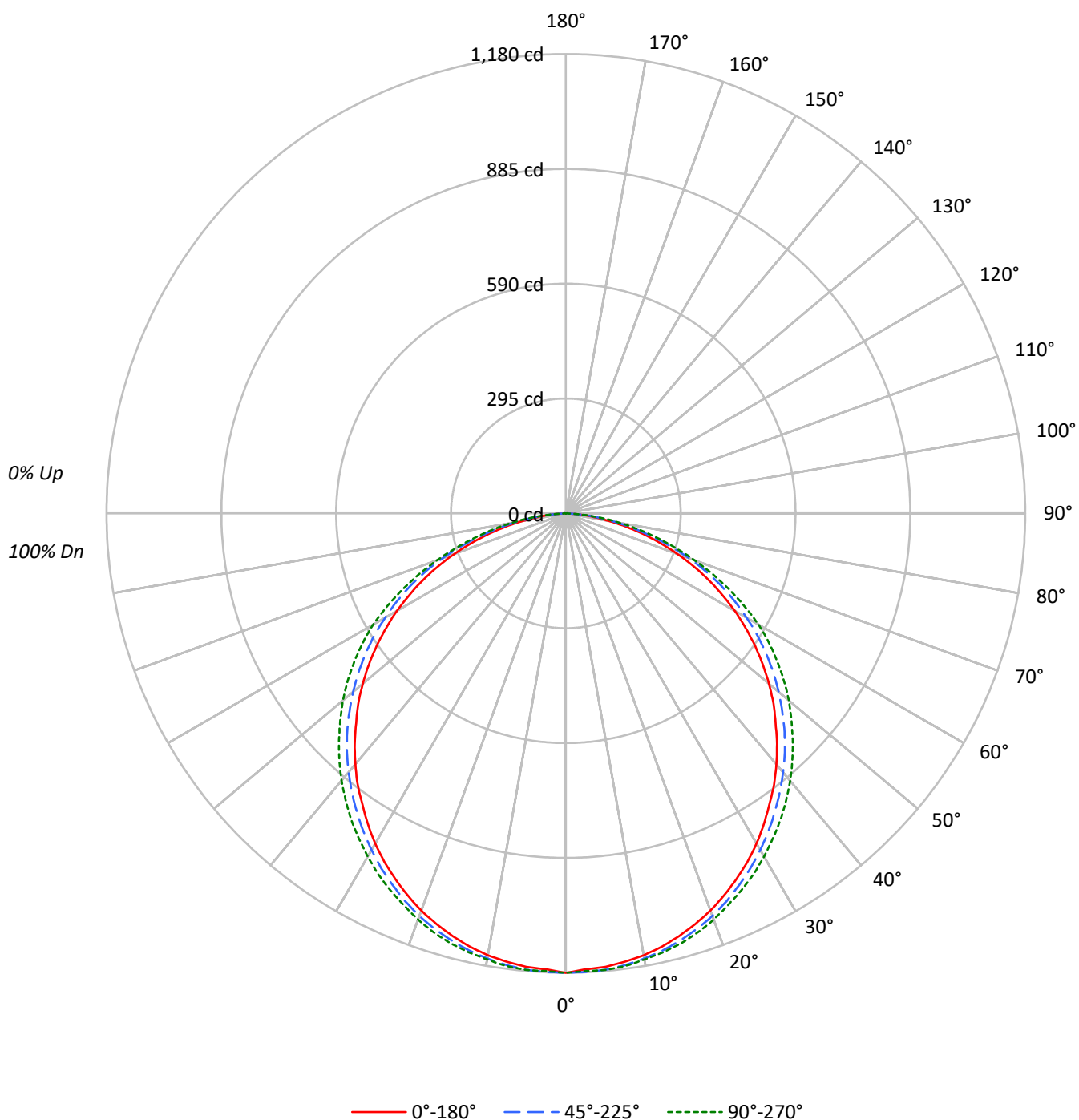
Lumens per Lamp: N/A
Luminaire Lumens: 3412.0 lumens
Efficiency: N/A
Efficacy: 138.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	3977	3977	3977
5°	3955	3980	3984
10°	3944	3973	3981
15°	3921	3961	3989
20°	3893	3946	3982
25°	3854	3916	3970
30°	3810	3885	3961
35°	3749	3851	3954
40°	3700	3819	3943
45°	3631	3786	3927
50°	3570	3741	3920
55°	3484	3688	3894
60°	3378	3615	3855
65°	3228	3515	3696
70°	3008	3320	3469
75°	2687	2994	3165
80°	2202	2525	2767
85°	1477	1844	2057

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3927 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.8	3.3
10°-20°	320.4	9.4
20°-30°	485.2	14.2
30°-40°	586.0	17.2
40°-50°	612.4	17.9
50°-60°	561.1	16.4
60°-70°	433.2	12.7
70°-80°	243.6	7.1
80°-90°	58.3	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°	917.4	26.9
0°-40°	1503.4	44.1
0°-60°	2676.9	78.5
0°-90°	3412.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3412.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1180	1180	1180	1180	1180	
5°	1169	1178	1177	1178	1178	111
15°	1124	1133	1136	1140	1144	317
25°	1037	1046	1053	1059	1068	478
35°	912	923	936	949	961	571
45°	762	777	794	811	824	589
55°	593	609	628	647	663	530
65°	405	422	441	458	464	400
75°	206	226	230	240	243	219
85°	38	44	48	52	53	49
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1180.2	1180.2	1180.2	1180.2	1180.2
2.5°	1172.2	1181.2	1179.2	1182.2	1176.7
5°	1169.2	1177.7	1176.7	1177.7	1177.7
7.5°	1161.6	1170.7	1170.2	1171.7	1172.7
10°	1152.6	1161.1	1161.1	1162.6	1163.6
12.5°	1140.0	1149.1	1150.1	1152.6	1154.6
15°	1124.0	1133.0	1135.5	1140.0	1143.6
17.5°	1105.9	1115.4	1119.4	1124.0	1128.5
20°	1085.8	1094.3	1100.4	1103.9	1110.4
22.5°	1062.2	1071.7	1078.3	1081.8	1088.8
25°	1036.6	1045.6	1053.2	1058.7	1067.7
27.5°	1009.5	1018.5	1027.5	1034.1	1044.6
30°	979.3	988.9	998.4	1008.5	1018.0
32.5°	946.7	957.7	968.3	979.3	989.9
35°	911.5	923.1	936.1	948.7	961.2
37.5°	878.9	889.4	903.0	916.5	929.1
40°	841.2	852.8	868.3	883.4	896.5
42.5°	803.0	815.6	832.7	847.2	861.3
45°	761.9	776.9	794.5	810.6	824.1
47.5°	723.7	736.8	754.3	771.9	786.0
50°	681.0	695.6	713.7	732.2	747.8
52.5°	637.8	652.9	671.5	690.0	706.1
55°	593.1	608.7	627.8	647.4	662.9
57.5°	547.4	564.0	583.6	603.2	618.7
60°	501.2	517.8	536.4	558.0	572.0
62.5°	453.0	471.6	489.2	509.2	517.8
65°	404.8	422.4	440.9	458.5	463.5
67.5°	355.6	373.7	390.2	401.8	408.3
70°	305.3	324.9	337.0	348.0	352.1
72.5°	255.6	275.2	282.2	292.8	296.8
75°	206.4	225.5	230.0	239.6	243.1
77.5°	158.7	176.3	177.8	188.8	191.8
80°	113.5	127.6	130.1	140.6	142.6
82.5°	72.8	82.9	86.4	95.4	98.4
85°	38.2	43.7	47.7	52.2	53.2
87.5°	12.6	15.6	13.1	13.6	12.6
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	16.51	18.16	16.87	18.47	18.79	17.05	18.70	17.41	19.01	19.33
	3H	18.28	19.78	18.66	20.10	20.46	18.91	20.40	19.28	20.72	21.08
	4H	18.91	20.32	19.31	20.67	21.04	19.57	20.98	19.97	21.33	21.70
	6H	19.32	20.62	19.73	20.99	21.38	20.05	21.36	20.46	21.72	22.11
	8H	19.42	20.67	19.85	21.06	21.46	20.20	21.44	20.62	21.83	22.23
	12H	19.47	20.67	19.90	21.05	21.48	20.28	21.47	20.71	21.86	22.28
4H	2H	17.23	18.64	17.63	18.99	19.36	17.66	19.06	18.05	19.41	19.78
	3H	19.23	20.41	19.64	20.80	21.20	19.73	20.91	20.14	21.30	21.70
	4H	19.98	21.05	20.42	21.47	21.90	20.52	21.59	20.95	22.00	22.44
	6H	20.51	21.45	20.97	21.89	22.34	21.13	22.06	21.58	22.50	22.95
	8H	20.65	21.53	21.11	21.97	22.43	21.32	22.19	21.78	22.63	23.10
	12H	20.73	21.52	21.21	21.99	22.46	21.44	22.22	21.92	22.70	23.17
8H	4H	20.32	21.20	20.78	21.64	22.10	20.80	21.67	21.26	22.11	22.58
	6H	20.96	21.69	21.46	22.18	22.65	21.51	22.24	22.00	22.72	23.20
	8H	21.16	21.81	21.67	22.32	22.80	21.77	22.42	22.28	22.93	23.41
	12H	21.29	21.87	21.80	22.36	22.92	21.95	22.53	22.46	23.02	23.58
12H	4H	20.36	21.14	20.84	21.62	22.09	20.82	21.61	21.30	22.08	22.55
	6H	21.02	21.67	21.53	22.18	22.66	21.55	22.20	22.06	22.71	23.19
	8H	21.27	21.84	21.78	22.33	22.89	21.86	22.43	22.36	22.92	23.48