

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: P1585656

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585656
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-4)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-SB-37HE-L840-S
Description: 1x4 CZSP LED Luminaire, 4000K CCT and 3500 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

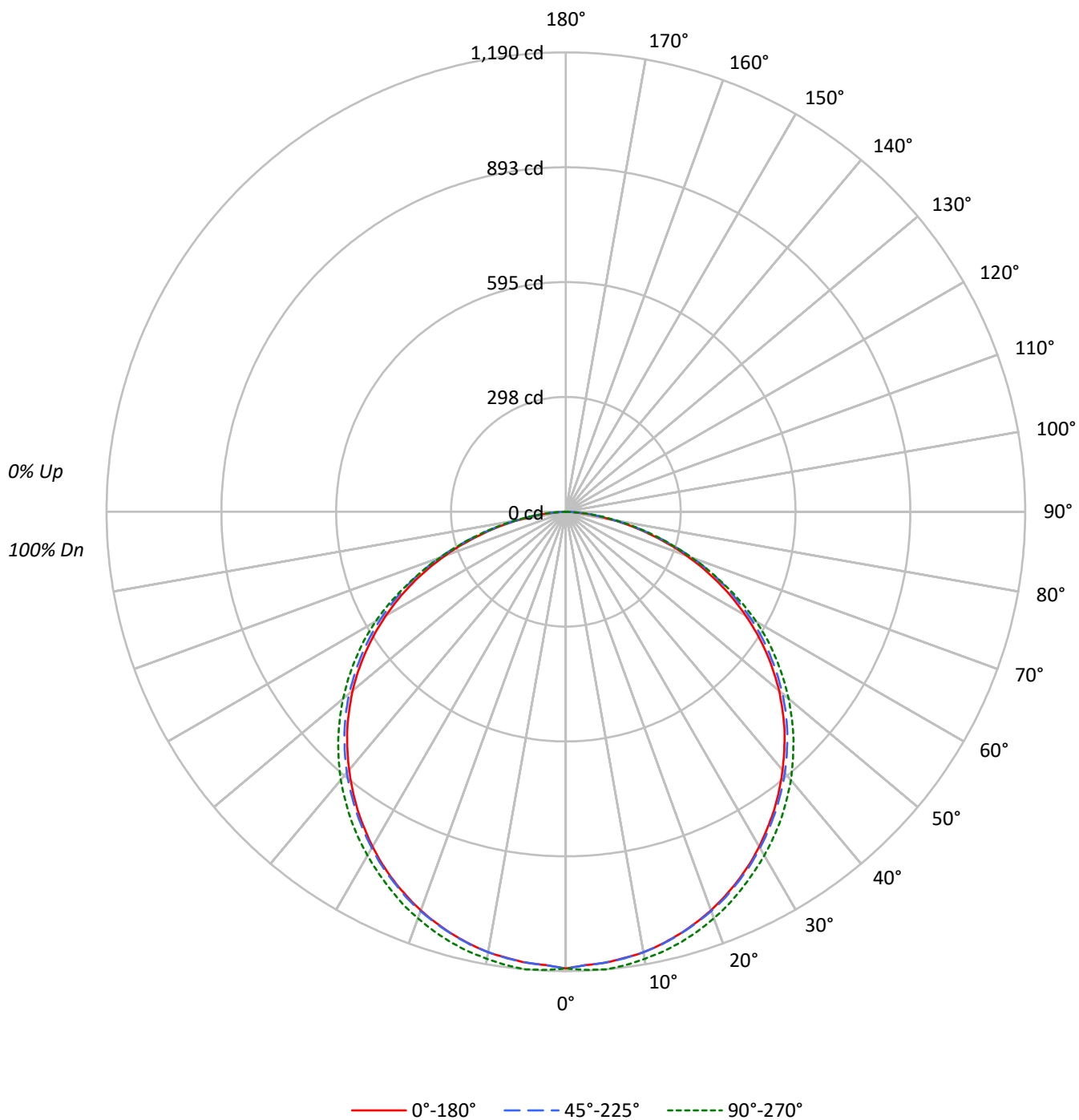
Lumens per Lamp: N/A
Luminaire Lumens: 3491.0 lumens
Efficiency: N/A
Efficacy: 141.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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	99	96	106	102	98	94	97	94	91		93	91	88		90
2	99	90	83	77	96	88	82	77	85	79	75		81	77	73		78
3	90	79	71	64	87	77	70	64	74	68	62		72	66	61		69
4	82	70	61	54	80	69	60	54	66	59	53		64	57	52		61
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		55
6	70	56	47	40	68	55	46	40	53	46	40		52	45	40		50
7	64	51	42	36	63	50	41	35	48	41	35		47	40	35		46
8	60	46	38	32	58	46	37	32	44	37	31		43	36	31		42
9	56	42	34	28	55	42	34	28	41	33	28		40	33	28		39
10	52	39	31	26	51	39	31	26	38	30	26		37	30	25		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3986	3986	3986
5°	3967	3965	4025
10°	3965	3964	4024
15°	3953	3957	4026
20°	3941	3949	4020
25°	3921	3931	4007
30°	3898	3914	4000
35°	3872	3896	3997
40°	3842	3882	3990
45°	3818	3867	3974
50°	3780	3839	3948
55°	3721	3790	3910
60°	3631	3725	3840
65°	3495	3627	3665
70°	3287	3439	3418
75°	2951	3076	3097
80°	2437	2561	2697
85°	1632	1902	2007

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3974 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.1	3.2
10°-20°	322.3	9.2
20°-30°	490.8	14.1
30°-40°	597.3	17.1
40°-50°	629.7	18.0
50°-60°	579.9	16.6
60°-70°	447.9	12.8
70°-80°	250.6	7.2
80°-90°	60.4	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°	925.2	26.5
0°-40°	1522.4	43.6
0°-60°	2732.0	78.3
0°-90°	3491.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3491.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1183	1183	1183	1183	1183	
5°	1173	1189	1172	1174	1190	111
15°	1133	1149	1134	1141	1154	320
25°	1055	1070	1057	1064	1078	486
35°	941	955	947	959	972	589
45°	801	812	812	824	834	617
55°	633	644	645	659	666	565
65°	438	451	455	459	460	433
75°	227	241	236	236	238	240
85°	42	46	49	55	52	54
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1183.0	1183.0	1183.0	1183.0	1183.0
2.5°	1175.5	1192.6	1175.5	1178.2	1187.8
5°	1172.8	1189.4	1172.3	1173.9	1189.9
7.5°	1165.9	1183.0	1166.9	1169.1	1184.6
10°	1158.9	1174.4	1158.4	1161.1	1176.0
12.5°	1147.2	1163.2	1148.2	1151.4	1166.4
15°	1133.3	1148.8	1134.3	1140.7	1154.1
17.5°	1117.2	1132.2	1118.3	1125.8	1138.6
20°	1099.0	1113.5	1101.2	1106.5	1121.0
22.5°	1077.7	1092.6	1080.9	1085.7	1101.2
25°	1054.7	1069.6	1057.4	1064.3	1077.7
27.5°	1029.6	1044.0	1033.3	1041.8	1053.6
30°	1001.8	1015.7	1006.0	1016.2	1028.0
32.5°	971.8	986.8	977.2	988.9	1000.7
35°	941.4	955.3	947.2	959.0	971.8
37.5°	908.2	921.6	915.7	928.0	939.7
40°	873.5	888.4	882.6	895.4	907.1
42.5°	837.6	852.1	847.3	860.6	870.8
45°	801.3	812.5	811.5	823.8	833.9
47.5°	761.2	775.1	773.0	785.3	794.3
50°	721.1	732.3	732.3	744.1	753.2
52.5°	677.8	689.0	689.0	702.9	710.4
55°	633.4	644.1	645.2	658.6	665.5
57.5°	586.4	597.6	599.8	613.1	619.5
60°	538.8	549.5	552.7	566.1	569.8
62.5°	489.1	501.9	503.6	514.2	516.4
65°	438.3	451.2	454.9	459.2	459.7
67.5°	386.5	399.8	403.6	403.6	403.6
70°	333.6	345.9	349.1	346.9	346.9
72.5°	280.1	293.5	291.9	289.7	290.8
75°	226.7	240.6	236.3	235.7	237.9
77.5°	175.3	188.7	181.7	186.0	186.6
80°	125.6	135.8	132.0	138.4	139.0
82.5°	80.7	87.1	88.2	93.5	91.9
85°	42.2	46.5	49.2	55.1	51.9
87.5°	13.4	17.6	16.0	18.7	14.4
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	16.84	18.49	17.20	18.81	19.12	17.06	18.71	17.42	19.02	19.34
	3H	18.66	20.16	19.04	20.48	20.84	18.86	20.35	19.23	20.68	21.04
	4H	19.31	20.72	19.70	21.07	21.44	19.49	20.91	19.89	21.25	21.63
	6H	19.73	21.04	20.15	21.41	21.80	19.95	21.26	20.36	21.62	22.01
	8H	19.84	21.10	20.27	21.48	21.88	20.08	21.33	20.50	21.72	22.12
	12H	19.90	21.10	20.33	21.48	21.91	20.15	21.35	20.58	21.73	22.16
4H	2H	17.52	18.93	17.92	19.28	19.65	17.69	19.10	18.09	19.45	19.82
	3H	19.56	20.74	19.97	21.14	21.54	19.70	20.89	20.11	21.28	21.68
	4H	20.34	21.41	20.77	21.82	22.26	20.46	21.53	20.89	21.94	22.38
	6H	20.89	21.83	21.34	22.27	22.72	21.03	21.97	21.49	22.41	22.87
	8H	21.04	21.91	21.49	22.35	22.82	21.21	22.09	21.67	22.53	22.99
	12H	21.12	21.91	21.60	22.38	22.85	21.32	22.11	21.80	22.59	23.05
8H	4H	20.65	21.52	21.11	21.97	22.43	20.75	21.63	21.21	22.07	22.54
	6H	21.31	22.04	21.80	22.52	23.00	21.44	22.17	21.93	22.65	23.13
	8H	21.51	22.17	22.02	22.67	23.16	21.67	22.33	22.18	22.83	23.32
	12H	21.65	22.22	22.15	22.71	23.27	21.85	22.43	22.36	22.92	23.48
12H	4H	20.68	21.47	21.16	21.94	22.41	20.78	21.57	21.26	22.05	22.51
	6H	21.35	22.01	21.86	22.51	23.00	21.48	22.13	21.99	22.64	23.12
	8H	21.61	22.18	22.11	22.67	23.23	21.77	22.35	22.27	22.84	23.39