

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: P1584339

Luminaire Tested: 14CZSP-49HE-L845

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584339
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2602-698-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-49HE-L845
Description: 1x4 CZSP LED Luminaire, 4500K CCT and 4500 lumens, 80CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

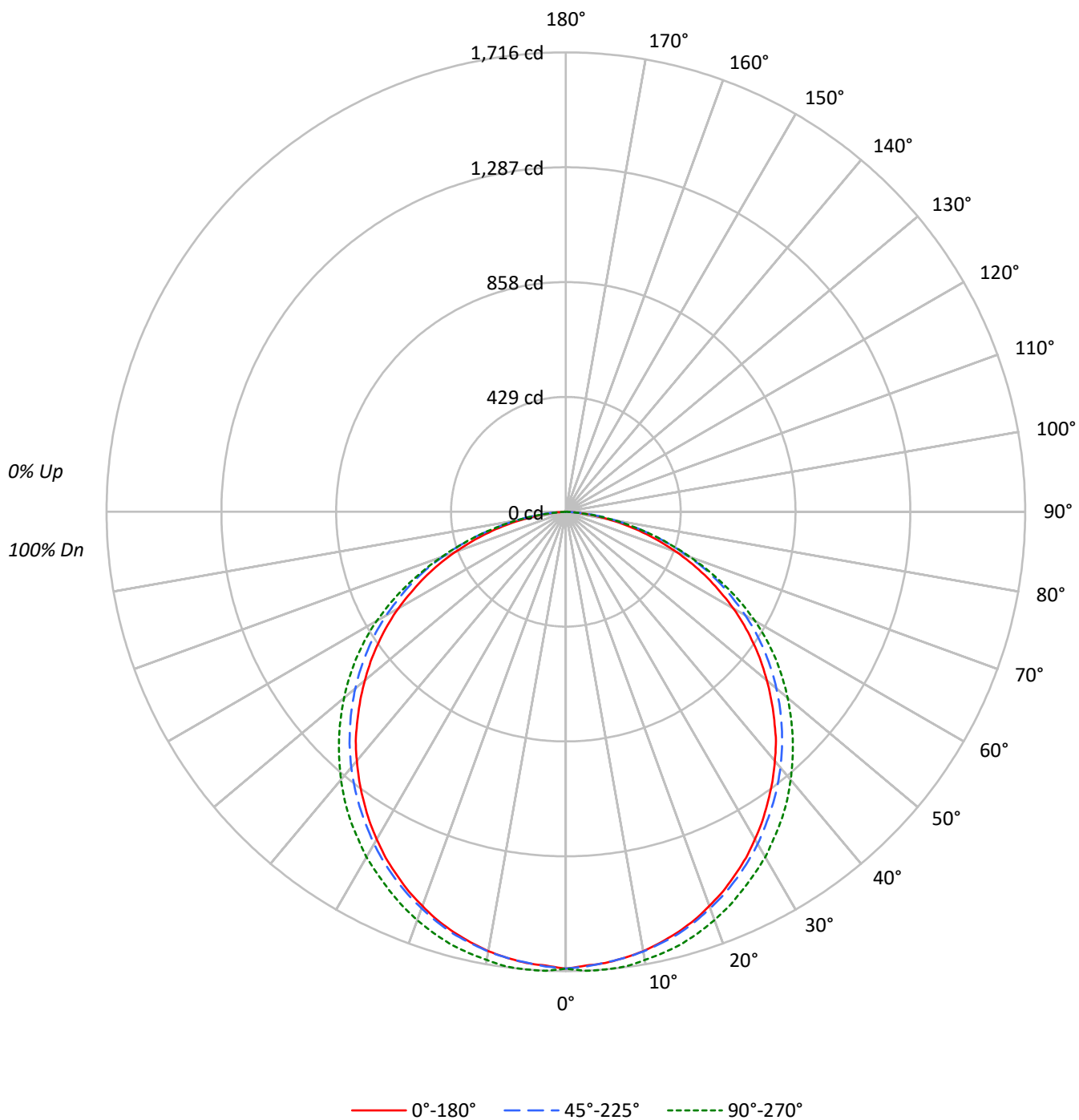
Lumens per Lamp: N/A
Luminaire Lumens: 4916.0 lumens
Efficiency: N/A
Efficacy: 148.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 33.1
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

TEST NUMBER: P1584339

CATALOG NUMBER: 14CZSP-49HE-L845

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		94	91	88		90
2	99	90	84	78	96	89	82	77	85	80	75		82	77	73		79
3	90	79	71	65	87	78	70	64	75	68	63		72	66	62		69
4	82	70	61	55	80	69	61	54	66	59	53		64	58	53		62
5	76	63	54	47	73	61	53	47	59	52	46		57	51	46		55
6	70	56	47	41	68	55	47	41	54	46	40		52	45	40		50
7	65	51	42	36	63	50	42	36	49	41	36		47	40	35		46
8	60	47	38	32	59	46	38	32	44	37	32		43	36	32		42
9	56	43	34	29	55	42	34	29	41	34	29		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°	5751	5751	5751
5°	5724	5718	5805
10°	5702	5708	5817
15°	5668	5690	5830
20°	5618	5653	5820
25°	5562	5616	5801
30°	5496	5577	5796
35°	5420	5526	5777
40°	5344	5485	5747
45°	5246	5437	5713
50°	5139	5383	5669
55°	5022	5315	5617
60°	4874	5220	5502
65°	4651	5087	5253
70°	4338	4797	4877
75°	3871	4331	4373
80°	3149	3648	3617
85°	2049	2548	1987

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5713 cd/sqm

TEST NUMBER: P1584339

CATALOG NUMBER: 14CZSP-49HE-L845

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.7	3.3
10°-20°	463.2	9.4
20°-30°	701.5	14.3
30°-40°	847.4	17.2
40°-50°	885.2	18.0
50°-60°	810.6	16.5
60°-70°	622.8	12.7
70°-80°	346.8	7.1
80°-90°	76.8	1.6
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°	1326.3	27.0
0°-40°	2173.7	44.2
0°-60°	3869.6	78.7
0°-90°	4916.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4916.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1707	1707	1707	1707	1707	
5°	1692	1710	1691	1700	1716	161
15°	1625	1641	1631	1647	1671	458
25°	1496	1514	1511	1533	1560	690
35°	1318	1337	1344	1376	1404	825
45°	1101	1125	1141	1175	1199	850
55°	855	882	905	937	956	764
65°	583	614	638	651	659	576
75°	297	328	333	333	336	315
85°	53	63	66	55	51	69
90°	0	0	0	0	0	

TEST NUMBER: P1584339

CATALOG NUMBER: 14CZSP-49HE-L845

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1706.6	1706.6	1706.6	1706.6	1706.6
2.5°	1697.0	1713.1	1700.2	1705.0	1716.3
5°	1692.2	1709.9	1690.6	1700.2	1716.3
7.5°	1680.9	1697.0	1680.9	1692.2	1713.1
10°	1666.5	1684.1	1668.1	1679.3	1700.2
12.5°	1647.2	1661.6	1650.4	1666.5	1687.4
15°	1624.7	1640.8	1631.1	1647.2	1671.3
17.5°	1599.0	1613.4	1605.4	1626.3	1648.8
20°	1566.8	1582.9	1576.5	1597.4	1623.1
22.5°	1534.7	1550.8	1545.9	1566.8	1594.2
25°	1496.1	1513.8	1510.6	1533.1	1560.4
27.5°	1457.6	1475.2	1473.6	1499.3	1525.0
30°	1412.6	1430.2	1433.4	1460.8	1489.7
32.5°	1367.6	1386.8	1388.5	1419.0	1446.3
35°	1317.7	1337.0	1343.5	1375.6	1404.5
37.5°	1267.9	1287.2	1296.9	1327.4	1357.9
40°	1214.9	1235.8	1247.0	1279.2	1306.5
42.5°	1161.9	1182.8	1195.6	1227.8	1253.5
45°	1100.8	1124.9	1141.0	1174.7	1198.8
47.5°	1041.3	1067.1	1084.7	1116.9	1141.0
50°	980.3	1007.6	1026.9	1059.0	1081.5
52.5°	919.2	948.1	967.4	998.0	1020.4
55°	854.9	882.2	904.7	936.9	956.2
57.5°	790.6	818.0	842.1	871.0	888.7
60°	723.2	752.1	774.6	803.5	816.4
62.5°	652.4	683.0	705.5	728.0	739.2
65°	583.3	613.9	638.0	650.8	658.9
67.5°	512.6	543.2	565.7	572.1	576.9
70°	440.3	470.9	486.9	490.1	495.0
72.5°	368.0	398.5	411.4	411.4	413.0
75°	297.3	327.8	332.7	332.7	335.9
77.5°	228.2	255.5	258.7	258.7	258.7
80°	162.3	183.2	188.0	188.0	186.4
82.5°	102.8	117.3	125.3	118.9	115.7
85°	53.0	62.7	65.9	54.6	51.4
87.5°	16.1	19.3	16.1	9.6	8.0
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1584339

CATALOG NUMBER: 14CZSP-49HE-L845

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	17.82	19.47	18.19	19.78	20.10	18.33	19.98	18.69	20.29	20.60
	3H	19.59	21.08	19.97	21.41	21.77	20.13	21.62	20.50	21.94	22.30
	4H	20.22	21.62	20.61	21.97	22.34	20.76	22.16	21.15	22.51	22.88
	6H	20.62	21.92	21.03	22.29	22.68	21.18	22.48	21.59	22.84	23.23
	8H	20.72	21.96	21.14	22.35	22.75	21.28	22.53	21.71	22.92	23.31
	12H	20.76	21.95	21.19	22.34	22.76	21.32	22.51	21.75	22.90	23.32
4H	2H	18.54	19.95	18.94	20.29	20.67	18.94	20.34	19.34	20.69	21.07
	3H	20.54	21.71	20.95	22.11	22.51	20.95	22.13	21.36	22.53	22.93
	4H	21.29	22.36	21.72	22.77	23.21	21.70	22.77	22.13	23.18	23.62
	6H	21.82	22.75	22.27	23.19	23.64	22.24	23.17	22.69	23.61	24.07
	8H	21.95	22.82	22.41	23.26	23.72	22.38	23.25	22.84	23.69	24.16
	12H	22.02	22.80	22.50	23.28	23.75	22.45	23.23	22.93	23.71	24.17
8H	4H	21.63	22.50	22.09	22.94	23.40	21.99	22.86	22.45	23.30	23.77
	6H	22.26	22.98	22.75	23.47	23.94	22.63	23.35	23.12	23.84	24.31
	8H	22.45	23.10	22.96	23.60	24.09	22.82	23.47	23.33	23.98	24.46
	12H	22.57	23.15	23.08	23.64	24.20	22.93	23.50	23.44	23.99	24.55
12H	4H	21.66	22.44	22.14	22.91	23.38	22.01	22.80	22.49	23.27	23.74
	6H	22.31	22.96	22.82	23.46	23.95	22.67	23.32	23.18	23.82	24.31
	8H	22.55	23.12	23.06	23.61	24.18	22.91	23.48	23.42	23.97	24.53