

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: P1584759

Luminaire Tested: 14CZSP-A-70-L845

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584759
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-70-L845
Description: 1x4 CZSP LED Luminaire, 4500K CCT and 6700 lumens, 80CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

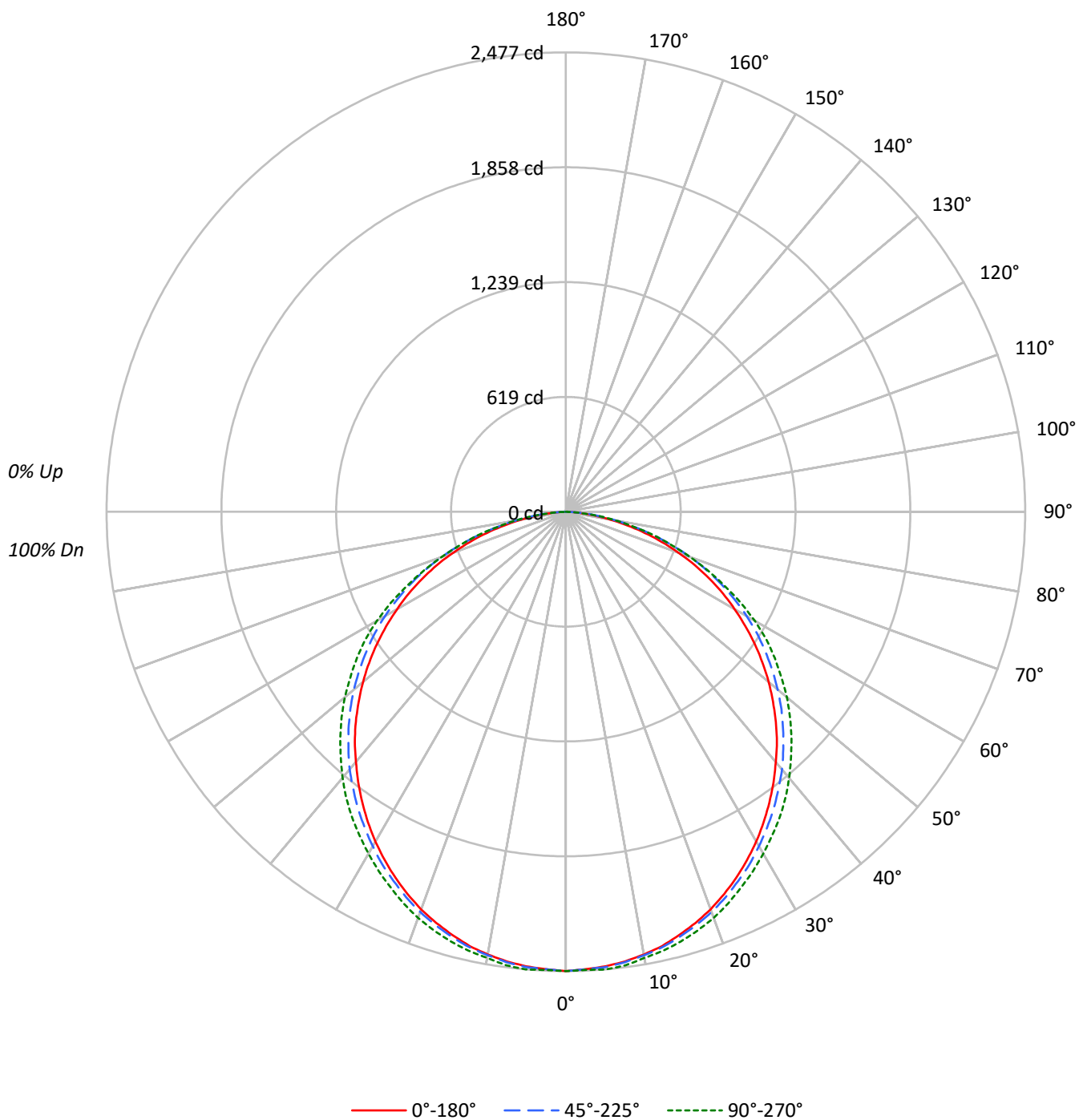
Lumens per Lamp: N/A
Luminaire Lumens: 7147.0 lumens
Efficiency: N/A
Efficacy: 133.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 53.4
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: P1584759

CATALOG NUMBER: 14CZSP-A-70-L845

Luminous Intensity Polar Plot



TEST NUMBER: P1584759

CATALOG NUMBER: 14CZSP-A-70-L845

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°	8346	8346	8346
5°	8321	8335	8378
10°	8294	8308	8359
15°	8241	8278	8367
20°	8183	8236	8357
25°	8090	8169	8311
30°	7989	8104	8285
35°	7870	8036	8271
40°	7745	7978	8239
45°	7633	7896	8199
50°	7486	7820	8153
55°	7307	7718	8078
60°	7082	7596	7925
65°	6808	7382	7535
70°	6388	7014	7014
75°	5737	6373	6400
80°	4729	5387	5387
85°	3279	3932	3441

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 8199 cd/sqm

TEST NUMBER: P1584759

CATALOG NUMBER: 14CZSP-A-70-L845

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.6	3.3
10°-20°	671.9	9.4
20°-30°	1017.0	14.2
30°-40°	1227.7	17.2
40°-50°	1282.7	17.9
50°-60°	1175.0	16.4
60°-70°	905.9	12.7
70°-80°	511.1	7.2
80°-90°	121.0	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°	1923.5	26.9
0°-40°	3151.3	44.1
0°-60°	5609.0	78.5
0°-90°	7147.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7147.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2477	2477	2477	2477	2477	
5°	2460	2477	2464	2468	2477	234
15°	2362	2377	2373	2392	2398	667
25°	2176	2195	2197	2227	2235	1003
35°	1913	1939	1954	1996	2011	1197
45°	1602	1629	1657	1706	1720	1235
55°	1244	1276	1314	1362	1375	1111
65°	854	881	926	958	945	844
75°	441	475	490	502	492	467
85°	85	95	102	108	89	107
90°	0	0	0	0	0	

TEST NUMBER: P1584759

CATALOG NUMBER: 14CZSP-A-70-L845

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2476.9	2476.9	2476.9	2476.9	2476.9
2.5°	2468.4	2485.4	2468.4	2476.9	2472.7
5°	2460.0	2476.9	2464.2	2468.4	2476.9
7.5°	2445.1	2462.1	2449.4	2455.7	2466.3
10°	2423.9	2440.9	2428.2	2438.8	2443.0
12.5°	2398.5	2413.4	2404.9	2417.6	2423.9
15°	2362.5	2377.3	2373.1	2392.2	2398.5
17.5°	2324.4	2341.3	2337.1	2360.4	2366.7
20°	2282.0	2296.8	2296.8	2318.0	2330.7
22.5°	2231.1	2248.1	2250.2	2273.5	2286.2
25°	2176.0	2195.1	2197.2	2226.9	2235.4
27.5°	2116.7	2135.8	2144.3	2176.0	2184.5
30°	2053.2	2072.2	2082.8	2118.8	2129.4
32.5°	1985.3	2008.7	2019.3	2059.5	2070.1
35°	1913.3	1938.7	1953.6	1995.9	2010.8
37.5°	1839.2	1864.6	1883.6	1928.1	1945.1
40°	1760.8	1788.3	1813.7	1858.2	1873.1
42.5°	1684.5	1712.0	1735.3	1781.9	1796.8
45°	1601.8	1629.4	1656.9	1705.7	1720.5
47.5°	1515.0	1544.6	1576.4	1620.9	1640.0
50°	1428.1	1457.8	1491.7	1538.3	1555.2
52.5°	1337.0	1368.8	1402.7	1451.4	1464.1
55°	1243.8	1275.5	1313.7	1362.4	1375.1
57.5°	1148.4	1182.3	1222.6	1269.2	1281.9
60°	1050.9	1084.8	1127.2	1171.7	1176.0
62.5°	955.6	985.3	1027.6	1070.0	1063.7
65°	853.9	881.4	925.9	957.7	945.0
67.5°	752.2	781.9	822.1	845.4	828.5
70°	648.4	680.1	711.9	728.9	711.9
72.5°	544.5	578.4	601.7	612.3	597.5
75°	440.7	474.6	489.5	502.2	491.6
77.5°	341.1	372.9	379.3	394.1	379.3
80°	243.7	273.3	277.6	292.4	277.6
82.5°	156.8	175.9	184.3	197.1	182.2
85°	84.8	95.3	101.7	108.1	89.0
87.5°	29.7	33.9	29.7	25.4	10.6
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1584759

CATALOG NUMBER: 14CZSP-A-70-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	19.08	20.73	19.45	21.05	21.36	19.63	21.28	19.99	21.59	21.91
	3H	20.87	22.37	21.25	22.69	23.05	21.44	22.93	21.81	23.25	23.61
	4H	21.51	22.92	21.91	23.27	23.64	22.08	23.49	22.48	23.84	24.21
	6H	21.94	23.24	22.35	23.60	23.99	22.52	23.83	22.93	24.19	24.58
	8H	22.04	23.29	22.47	23.68	24.08	22.64	23.89	23.07	24.28	24.68
	12H	22.10	23.29	22.53	23.67	24.10	22.70	23.90	23.13	24.28	24.71
4H	2H	19.81	21.22	20.21	21.57	21.94	20.24	21.64	20.63	21.99	22.37
	3H	21.82	23.00	22.23	23.39	23.79	22.27	23.45	22.68	23.85	24.25
	4H	22.59	23.65	23.02	24.07	24.50	23.05	24.12	23.48	24.53	24.97
	6H	23.13	24.06	23.58	24.50	24.96	23.62	24.55	24.07	24.99	25.45
	8H	23.27	24.15	23.73	24.59	25.05	23.79	24.66	24.25	25.10	25.57
	12H	23.36	24.14	23.84	24.62	25.09	23.88	24.66	24.36	25.14	25.61
8H	4H	22.93	23.80	23.39	24.24	24.71	23.34	24.21	23.80	24.66	25.12
	6H	23.59	24.31	24.08	24.80	25.28	24.02	24.75	24.52	25.24	25.71
	8H	23.79	24.44	24.30	24.95	25.44	24.26	24.91	24.76	25.41	25.90
	12H	23.93	24.51	24.44	25.00	25.56	24.41	24.98	24.91	25.47	26.03
12H	4H	22.97	23.75	23.44	24.23	24.69	23.37	24.15	23.85	24.63	25.10
	6H	23.64	24.29	24.15	24.80	25.29	24.06	24.72	24.57	25.22	25.71
	8H	23.90	24.48	24.41	24.97	25.53	24.35	24.92	24.85	25.41	25.97