

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: P1584741

Luminaire Tested: 14CZSP-A-65-L850

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584741
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-65-L850
Description: 1x4 CZSP LED Luminaire, 5000K CCT and 6200 lumens, 80CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

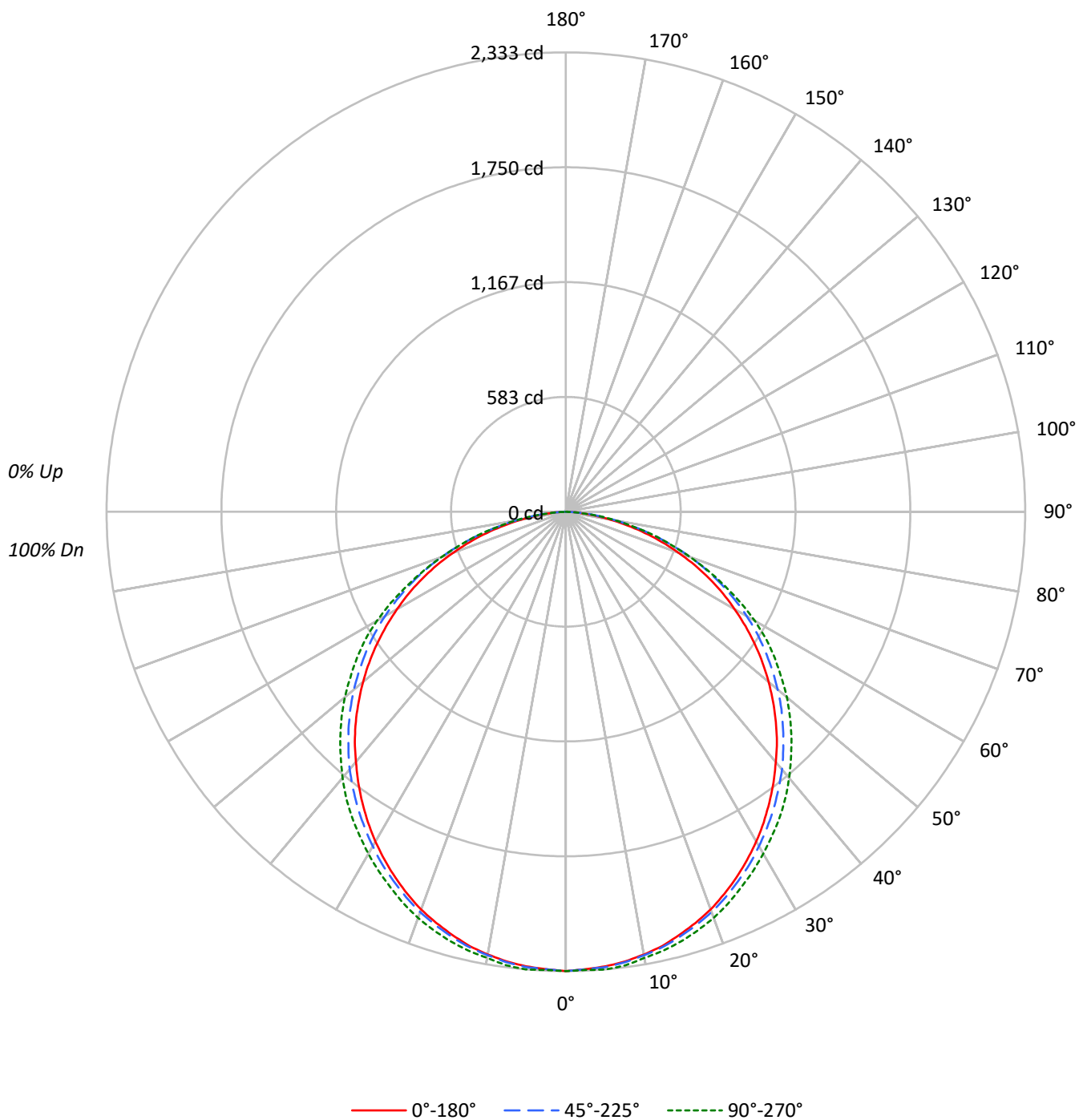
Lumens per Lamp: N/A
Luminaire Lumens: 6732.0 lumens
Efficiency: N/A
Efficacy: 138.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 48.8
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	53		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	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°	7862	7862	7862
5°	7837	7851	7892
10°	7812	7826	7874
15°	7763	7798	7881
20°	7708	7758	7872
25°	7621	7695	7828
30°	7525	7633	7804
35°	7413	7569	7791
40°	7295	7515	7761
45°	7190	7437	7723
50°	7052	7365	7679
55°	6882	7269	7609
60°	6671	7156	7465
65°	6413	6954	7097
70°	6017	6607	6607
75°	5404	6002	6028
80°	4453	5074	5074
85°	3085	3704	3240

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7723 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.0	3.3
10°-20°	632.9	9.4
20°-30°	957.9	14.2
30°-40°	1156.5	17.2
40°-50°	1208.2	17.9
50°-60°	1106.8	16.4
60°-70°	853.3	12.7
70°-80°	481.4	7.2
80°-90°	113.9	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°	1811.9	26.9
0°-40°	2968.3	44.1
0°-60°	5283.3	78.5
0°-90°	6732.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6732.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2333	2333	2333	2333	2333	
5°	2317	2333	2321	2325	2333	220
15°	2225	2239	2235	2253	2259	628
25°	2050	2068	2070	2098	2106	944
35°	1802	1826	1840	1880	1894	1128
45°	1509	1535	1561	1607	1621	1163
55°	1172	1202	1237	1283	1295	1047
65°	804	830	872	902	890	795
75°	415	447	461	473	463	440
85°	80	90	96	102	84	101
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2333.1	2333.1	2333.1	2333.1	2333.1
2.5°	2325.1	2341.1	2325.1	2333.1	2329.1
5°	2317.1	2333.1	2321.1	2325.1	2333.1
7.5°	2303.2	2319.1	2307.1	2313.1	2323.1
10°	2283.2	2299.2	2287.2	2297.2	2301.2
12.5°	2259.2	2273.2	2265.2	2277.2	2283.2
15°	2225.3	2239.3	2235.3	2253.3	2259.2
17.5°	2189.4	2205.4	2201.4	2223.3	2229.3
20°	2149.5	2163.5	2163.5	2183.4	2195.4
22.5°	2101.6	2117.5	2119.5	2141.5	2153.5
25°	2049.7	2067.7	2069.6	2097.6	2105.6
27.5°	1993.8	2011.8	2019.8	2049.7	2057.7
30°	1933.9	1951.9	1961.9	1995.8	2005.8
32.5°	1870.1	1892.0	1902.0	1939.9	1949.9
35°	1802.2	1826.2	1840.1	1880.0	1894.0
37.5°	1732.4	1756.3	1774.3	1816.2	1832.1
40°	1658.5	1684.5	1708.4	1750.3	1764.3
42.5°	1586.7	1612.6	1634.6	1678.5	1692.4
45°	1508.8	1534.8	1560.7	1606.6	1620.6
47.5°	1427.0	1454.9	1484.9	1526.8	1544.8
50°	1345.2	1373.1	1405.0	1449.0	1464.9
52.5°	1259.4	1289.3	1321.2	1367.1	1379.1
55°	1171.5	1201.5	1237.4	1283.3	1295.3
57.5°	1081.7	1113.7	1151.6	1195.5	1207.5
60°	989.9	1021.9	1061.8	1103.7	1107.7
62.5°	900.1	928.0	968.0	1007.9	1001.9
65°	804.3	830.3	872.2	902.1	890.1
67.5°	708.5	736.5	774.4	796.3	780.4
70°	610.7	640.7	670.6	686.6	670.6
72.5°	512.9	544.9	566.8	576.8	562.8
75°	415.1	447.1	461.0	473.0	463.0
77.5°	321.3	351.3	357.2	371.2	357.2
80°	229.5	257.5	261.5	275.4	261.5
82.5°	147.7	165.7	173.6	185.6	171.6
85°	79.8	89.8	95.8	101.8	83.8
87.5°	27.9	31.9	27.9	23.9	10.0
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	18.88	20.53	19.24	20.84	21.15	19.42	21.07	19.79	21.38	21.70
	3H	20.66	22.16	21.04	22.48	22.84	21.23	22.72	21.60	23.05	23.41
	4H	21.30	22.71	21.70	23.06	23.43	21.87	23.28	22.27	23.63	24.00
	6H	21.73	23.03	22.14	23.40	23.79	22.31	23.62	22.72	23.98	24.37
	8H	21.84	23.08	22.26	23.47	23.87	22.43	23.68	22.86	24.07	24.47
	12H	21.89	23.09	22.32	23.47	23.90	22.49	23.69	22.92	24.07	24.50
4H	2H	19.60	21.01	20.00	21.36	21.73	20.03	21.44	20.43	21.78	22.16
	3H	21.61	22.79	22.02	23.19	23.59	22.06	23.25	22.47	23.64	24.04
	4H	22.38	23.45	22.81	23.86	24.29	22.84	23.91	23.28	24.33	24.76
	6H	22.92	23.86	23.38	24.30	24.75	23.41	24.35	23.87	24.79	25.24
	8H	23.07	23.94	23.53	24.38	24.85	23.58	24.45	24.04	24.89	25.36
	12H	23.15	23.94	23.63	24.41	24.88	23.67	24.45	24.15	24.93	25.40
8H	4H	22.72	23.59	23.18	24.04	24.50	23.13	24.01	23.59	24.45	24.91
	6H	23.38	24.11	23.87	24.59	25.07	23.82	24.54	24.31	25.03	25.50
	8H	23.59	24.24	24.09	24.74	25.23	24.05	24.70	24.56	25.20	25.69
	12H	23.72	24.30	24.23	24.79	25.35	24.20	24.77	24.70	25.26	25.82
12H	4H	22.76	23.54	23.24	24.02	24.49	23.16	23.94	23.64	24.42	24.89
	6H	23.44	24.09	23.94	24.59	25.08	23.86	24.51	24.36	25.01	25.50
	8H	23.69	24.27	24.20	24.76	25.32	24.14	24.71	24.65	25.20	25.76