

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: P1584438

Luminaire Tested: 14CZSP-65-L845-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584438
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-65-L845-S
Description: 1x4 CZSP LED Luminaire, 4500K CCT and 6200 lumens, 80CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

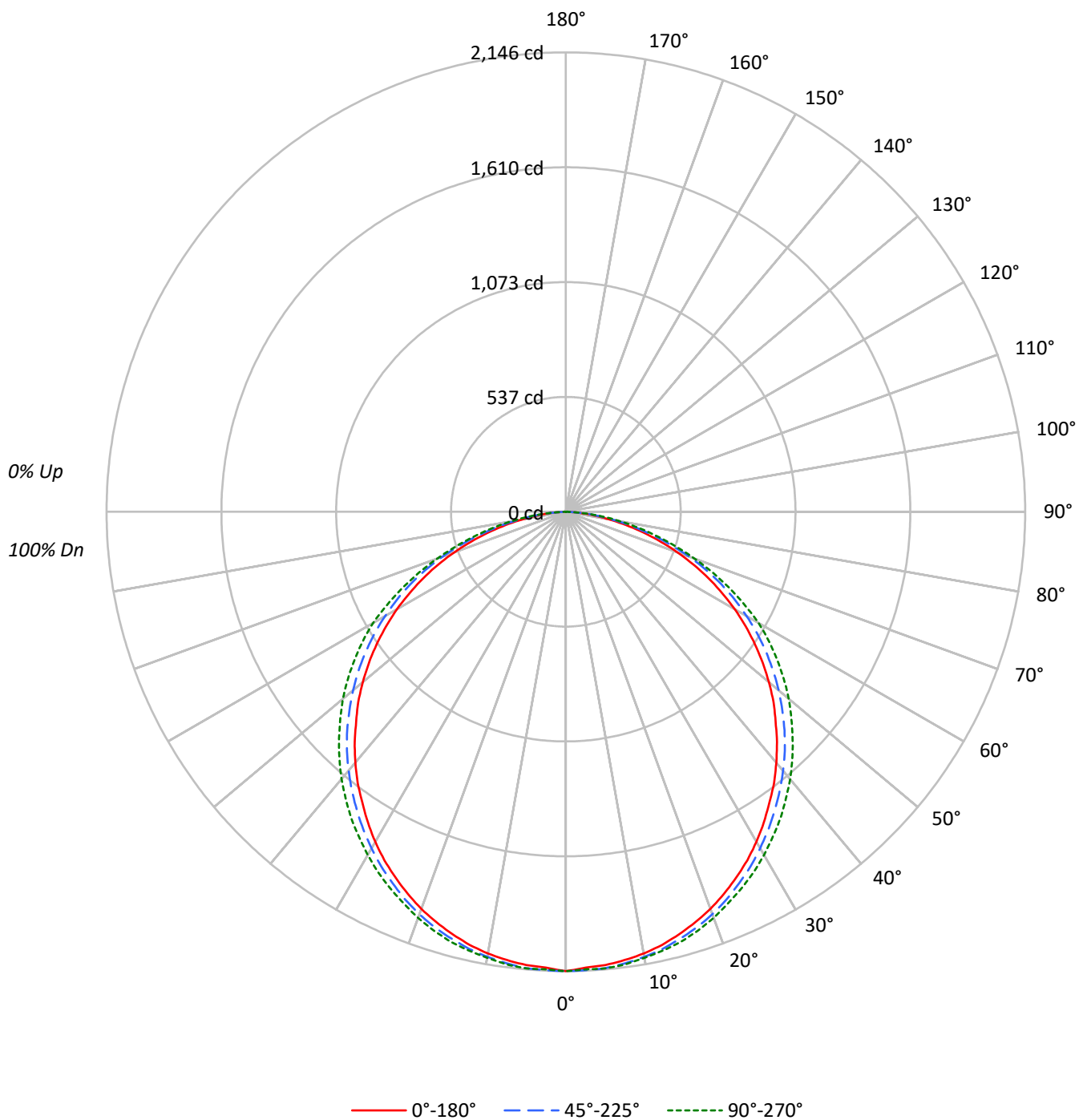
Lumens per Lamp: N/A
Luminaire Lumens: 6204.0 lumens
Efficiency: N/A
Efficacy: 127.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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			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°	7231	7231	7231
5°	7191	7237	7243
10°	7171	7224	7239
15°	7129	7203	7254
20°	7080	7175	7240
25°	7008	7119	7218
30°	6928	7063	7202
35°	6818	7002	7190
40°	6728	6945	7170
45°	6601	6884	7141
50°	6491	6802	7128
55°	6336	6706	7081
60°	6142	6573	7009
65°	5868	6393	6721
70°	5470	6036	6306
75°	4886	5445	5754
80°	4005	4589	5032
85°	2683	3356	3742

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7141 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.3	3.3
10°-20°	582.7	9.4
20°-30°	882.3	14.2
30°-40°	1065.4	17.2
40°-50°	1113.5	17.9
50°-60°	1020.3	16.4
60°-70°	787.6	12.7
70°-80°	443.0	7.1
80°-90°	106.0	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°	1668.2	26.9
0°-40°	2733.6	44.1
0°-60°	4867.4	78.5
0°-90°	6204.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6204.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2146	2146	2146	2146	2146	
5°	2126	2141	2140	2141	2141	202
15°	2044	2060	2065	2073	2079	577
25°	1885	1901	1915	1925	1941	869
35°	1657	1678	1702	1725	1748	1038
45°	1385	1413	1445	1474	1498	1071
55°	1078	1107	1142	1177	1205	964
65°	736	768	802	834	843	727
75°	375	410	418	436	442	398
85°	69	79	87	95	97	89
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2146.0	2146.0	2146.0	2146.0	2146.0
2.5°	2131.4	2147.8	2144.1	2149.6	2139.6
5°	2125.9	2141.4	2139.6	2141.4	2141.4
7.5°	2112.2	2128.6	2127.7	2130.4	2132.3
10°	2095.7	2111.3	2111.3	2114.0	2115.8
12.5°	2072.9	2089.4	2091.2	2095.7	2099.4
15°	2043.7	2060.1	2064.7	2072.9	2079.3
17.5°	2010.8	2028.2	2035.5	2043.7	2051.9
20°	1974.3	1989.8	2000.8	2007.2	2019.0
22.5°	1931.4	1948.7	1960.6	1967.0	1979.8
25°	1884.8	1901.2	1914.9	1925.0	1941.4
27.5°	1835.5	1851.9	1868.4	1880.2	1899.4
30°	1780.7	1798.0	1815.4	1833.7	1851.0
32.5°	1721.3	1741.4	1760.6	1780.7	1799.9
35°	1657.4	1678.4	1702.2	1725.0	1747.8
37.5°	1598.1	1617.2	1641.9	1666.6	1689.4
40°	1529.6	1550.6	1578.9	1606.3	1630.0
42.5°	1460.2	1483.0	1514.0	1540.5	1566.1
45°	1385.3	1412.7	1444.6	1473.9	1498.5
47.5°	1315.9	1339.6	1371.6	1403.6	1429.1
50°	1238.3	1264.8	1297.6	1331.4	1359.7
52.5°	1159.7	1187.1	1220.9	1254.7	1283.9
55°	1078.5	1106.8	1141.5	1177.1	1205.4
57.5°	995.4	1025.5	1061.1	1096.7	1125.0
60°	911.4	941.5	975.3	1014.5	1040.1
62.5°	823.7	857.5	889.4	926.0	941.5
65°	736.0	768.0	801.8	833.7	842.9
67.5°	646.5	679.4	709.5	730.5	742.4
70°	555.2	590.8	612.7	632.8	640.1
72.5°	464.8	500.4	513.2	532.4	539.7
75°	375.3	410.0	418.2	435.6	442.0
77.5°	288.6	320.5	323.3	343.4	348.8
80°	206.4	231.9	236.5	255.7	259.3
82.5°	132.4	150.7	157.1	173.5	179.0
85°	69.4	79.4	86.8	95.0	96.8
87.5°	22.8	28.3	23.7	24.7	22.8
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	18.59	20.24	18.95	20.55	20.86	19.13	20.78	19.49	21.09	21.40
	3H	20.36	21.85	20.74	22.18	22.54	20.98	22.48	21.36	22.80	23.16
	4H	20.99	22.40	21.39	22.74	23.12	21.65	23.06	22.05	23.41	23.78
	6H	21.40	22.70	21.81	23.07	23.46	22.13	23.43	22.54	23.80	24.19
	8H	21.50	22.75	21.92	23.14	23.53	22.27	23.52	22.70	23.91	24.31
	12H	21.55	22.74	21.98	23.13	23.55	22.36	23.55	22.79	23.93	24.36
4H	2H	19.31	20.72	19.71	21.06	21.44	19.73	21.14	20.13	21.49	21.86
	3H	21.30	22.49	21.71	22.88	23.28	21.80	22.98	22.21	23.38	23.78
	4H	22.06	23.13	22.49	23.54	23.98	22.60	23.67	23.03	24.08	24.52
	6H	22.59	23.52	23.04	23.96	24.42	23.20	24.14	23.66	24.58	25.03
	8H	22.73	23.60	23.19	24.04	24.51	23.39	24.27	23.85	24.71	25.17
	12H	22.81	23.59	23.29	24.07	24.54	23.52	24.30	23.99	24.78	25.24
8H	4H	22.40	23.27	22.86	23.71	24.18	22.88	23.75	23.34	24.19	24.66
	6H	23.04	23.77	23.53	24.25	24.73	23.59	24.32	24.08	24.80	25.28
	8H	23.24	23.89	23.75	24.40	24.88	23.85	24.50	24.35	25.00	25.49
	12H	23.37	23.94	23.87	24.43	24.99	24.03	24.60	24.53	25.09	25.65
12H	4H	22.44	23.22	22.92	23.70	24.17	22.90	23.69	23.38	24.16	24.63
	6H	23.09	23.75	23.60	24.25	24.74	23.63	24.28	24.13	24.78	25.27
	8H	23.35	23.92	23.85	24.41	24.97	23.93	24.51	24.44	25.00	25.56