

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: P1588815

Luminaire Tested: 24CZSP-A-65VHE-L835

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588815
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2605-776-5)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24CZSP-A-65VHE-L835
Description: 2x4 CZSP LED Luminaire, 3500K CCT and 7000 lumens, 80CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

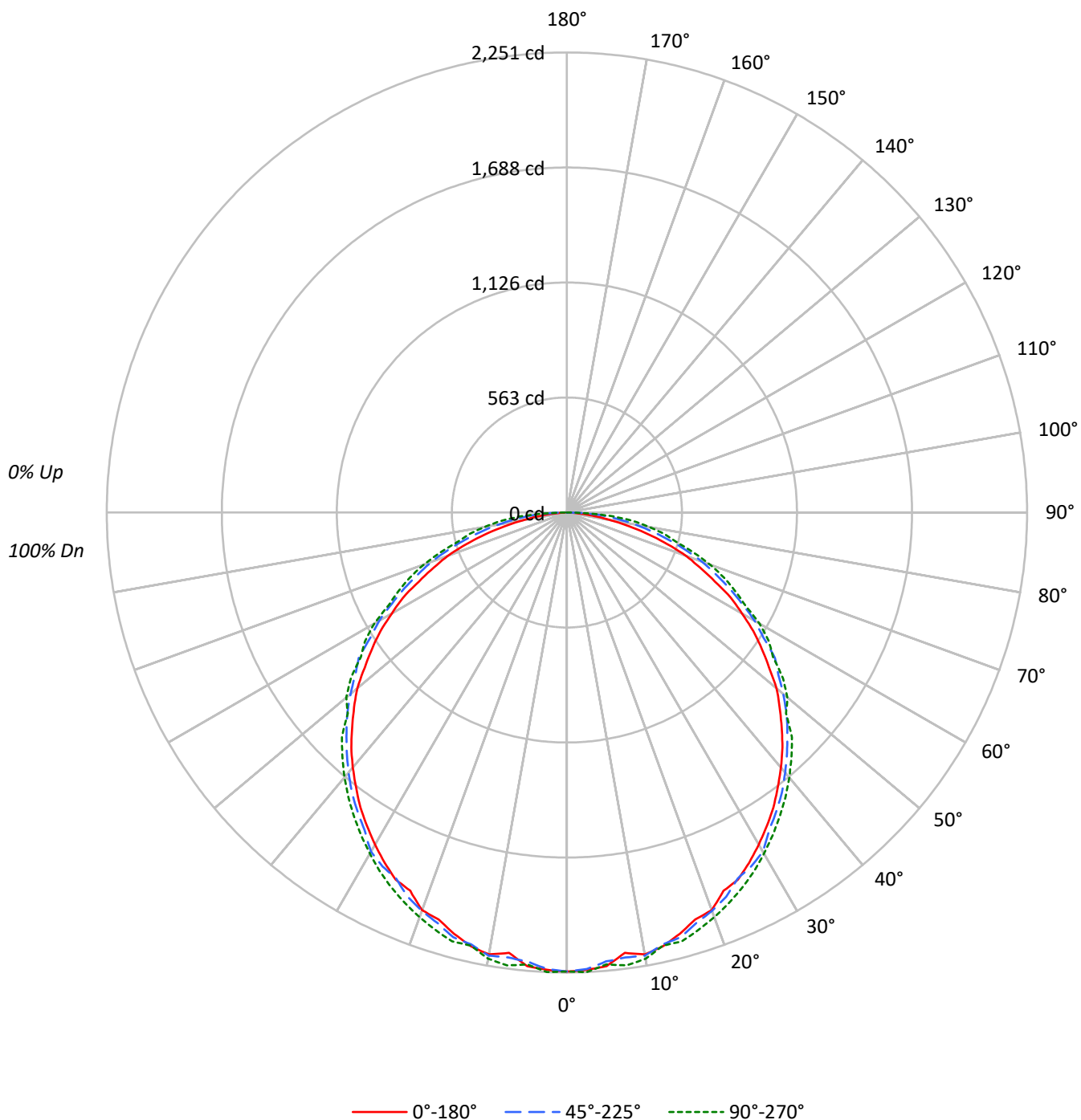
Lumens per Lamp: N/A
Luminaire Lumens: 6705.0 lumens
Efficiency: N/A
Efficacy: 133.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.27 / 1.39
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 50.1
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

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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	108	103	99	95	105	101	97	93	97	93	90		93	90	87		89	87	85	83
2	98	89	82	76	95	88	81	75	84	78	74		81	76	72		78	74	70	68
3	89	78	70	63	87	77	69	62	74	67	61		71	65	60		68	63	59	57
4	81	69	60	53	79	68	59	53	65	58	52		63	56	51		61	55	51	48
5	75	62	52	46	73	60	52	45	58	51	45		56	50	44		54	49	44	42
6	69	55	46	40	67	54	46	39	53	45	39		51	44	39		49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	35		46	39	34		45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31		42	36	31		41	35	30	28
9	56	42	34	28	54	41	33	28	40	33	28		39	32	28		38	32	27	26
10	52	39	31	25	51	38	30	25	37	30	25		36	30	25		35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3440	3440	3440
5°	3425	3390	3413
10°	3415	3424	3448
15°	3383	3411	3444
20°	3375	3381	3435
25°	3348	3339	3426
30°	3319	3390	3409
35°	3293	3340	3394
40°	3257	3321	3383
45°	3216	3303	3371
50°	3190	3290	3355
55°	3110	3319	3285
60°	3030	3249	3333
65°	2894	3179	3288
70°	2775	3151	3335
75°	2458	3057	3268
80°	1940	2987	3615
85°	1186	3191	4123

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 85°

Luminance: 4123 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.1	3.2
10°-20°	605.9	9.0
20°-30°	923.2	13.8
30°-40°	1123.7	16.8
40°-50°	1178.2	17.6
50°-60°	1091.5	16.3
60°-70°	860.7	12.8
70°-80°	532.5	7.9
80°-90°	177.3	2.6
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°	1741.2	26.0
0°-40°	2864.9	42.7
0°-60°	5134.6	76.6
0°-90°	6705.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6705.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2246	2246	2246	2246	2246	
5°	2228	2227	2205	2253	2220	210
15°	2134	2145	2151	2136	2172	602
25°	1981	1992	1976	2031	2027	911
35°	1761	1778	1786	1820	1815	1101
45°	1485	1512	1525	1542	1556	1147
55°	1165	1199	1243	1254	1230	1042
65°	799	830	877	910	907	795
75°	415	448	517	556	552	438
85°	68	115	182	221	235	91
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2246.1	2246.1	2246.1	2246.1	2246.1
2.5°	2239.7	2253.4	2236.0	2250.6	2250.6
5°	2227.8	2226.9	2205.0	2253.4	2219.6
7.5°	2173.1	2211.4	2195.9	2255.2	2235.1
10°	2195.9	2185.8	2201.3	2241.5	2216.9
12.5°	2173.1	2189.5	2164.8	2144.8	2170.3
15°	2133.8	2144.8	2151.1	2135.6	2172.1
17.5°	2087.3	2128.3	2106.4	2099.1	2141.1
20°	2070.8	2072.7	2074.5	2111.9	2107.3
22.5°	2003.3	2039.8	2035.2	2065.4	2069.0
25°	1981.4	1992.3	1975.9	2030.7	2027.0
27.5°	1931.2	1954.9	1952.2	1970.4	1980.5
30°	1876.4	1900.2	1916.6	1896.5	1927.5
32.5°	1819.9	1860.0	1841.8	1879.2	1872.8
35°	1761.4	1777.9	1786.1	1819.9	1815.3
37.5°	1693.9	1722.2	1726.8	1777.9	1756.0
40°	1629.1	1657.4	1661.0	1691.2	1692.1
42.5°	1560.7	1574.3	1593.5	1628.2	1625.5
45°	1484.9	1512.3	1525.1	1542.4	1556.1
47.5°	1411.9	1441.1	1457.5	1485.8	1453.9
50°	1338.9	1359.9	1380.9	1411.0	1408.2
52.5°	1246.7	1294.2	1304.2	1320.6	1331.6
55°	1164.6	1199.2	1243.0	1254.0	1230.3
57.5°	1081.5	1108.0	1139.9	1173.7	1170.9
60°	989.3	1021.3	1060.5	1086.1	1087.9
62.5°	905.4	927.3	964.7	1002.1	982.9
65°	798.6	829.6	877.1	909.9	907.2
67.5°	703.7	737.4	785.8	828.7	830.5
70°	619.7	638.0	703.7	736.5	744.7
72.5°	516.6	548.5	606.9	643.4	647.1
75°	415.3	448.1	516.6	555.8	552.2
77.5°	312.1	359.6	426.2	472.8	488.3
80°	220.0	262.8	338.6	384.2	409.8
82.5°	138.7	183.4	257.4	314.0	329.5
85°	67.5	115.0	181.6	220.9	234.6
87.5°	17.3	47.5	84.0	103.1	111.3
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	16.10	17.77	16.46	18.08	18.40	16.53	18.20	16.89	18.51	18.83
	3H	17.89	19.41	18.27	19.74	20.10	18.60	20.11	18.97	20.44	20.80
	4H	18.54	19.97	18.94	20.32	20.69	19.44	20.87	19.84	21.22	21.59
	6H	18.95	20.28	19.36	20.64	21.03	20.23	21.56	20.64	21.92	22.31
	8H	19.05	20.32	19.48	20.71	21.11	20.57	21.85	21.00	22.23	22.63
	12H	19.10	20.32	19.53	20.70	21.13	20.87	22.09	21.30	22.47	22.90
4H	2H	16.83	18.27	17.23	18.61	18.99	17.17	18.60	17.57	18.95	19.32
	3H	18.87	20.08	19.28	20.47	20.87	19.48	20.69	19.89	21.09	21.48
	4H	19.64	20.74	20.07	21.15	21.58	20.49	21.58	20.92	22.00	22.43
	6H	20.18	21.14	20.63	21.58	22.03	21.44	22.40	21.89	22.84	23.29
	8H	20.32	21.22	20.78	21.66	22.13	21.86	22.76	22.32	23.20	23.67
	12H	20.40	21.21	20.88	21.69	22.16	22.24	23.05	22.72	23.53	24.00
8H	4H	20.09	20.99	20.55	21.43	21.90	20.83	21.73	21.28	22.17	22.63
	6H	20.77	21.52	21.26	22.01	22.48	21.94	22.70	22.43	23.18	23.65
	8H	20.99	21.66	21.49	22.17	22.65	22.49	23.17	23.00	23.67	24.15
	12H	21.13	21.73	21.64	22.22	22.78	23.01	23.61	23.51	24.10	24.65
12H	4H	20.17	20.99	20.65	21.46	21.93	20.86	21.67	21.34	22.15	22.61
	6H	20.90	21.58	21.41	22.09	22.57	22.01	22.69	22.51	23.19	23.67
	8H	21.20	21.80	21.70	22.29	22.85	22.63	23.23	23.14	23.72	24.28