

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: P1588491

Luminaire Tested: 24CZSP-65VHE-L950

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588491
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-65VHE-L950
Description: 2x4 CZSP LED Luminaire, 5000K CCT and 7000 lumens, 90CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

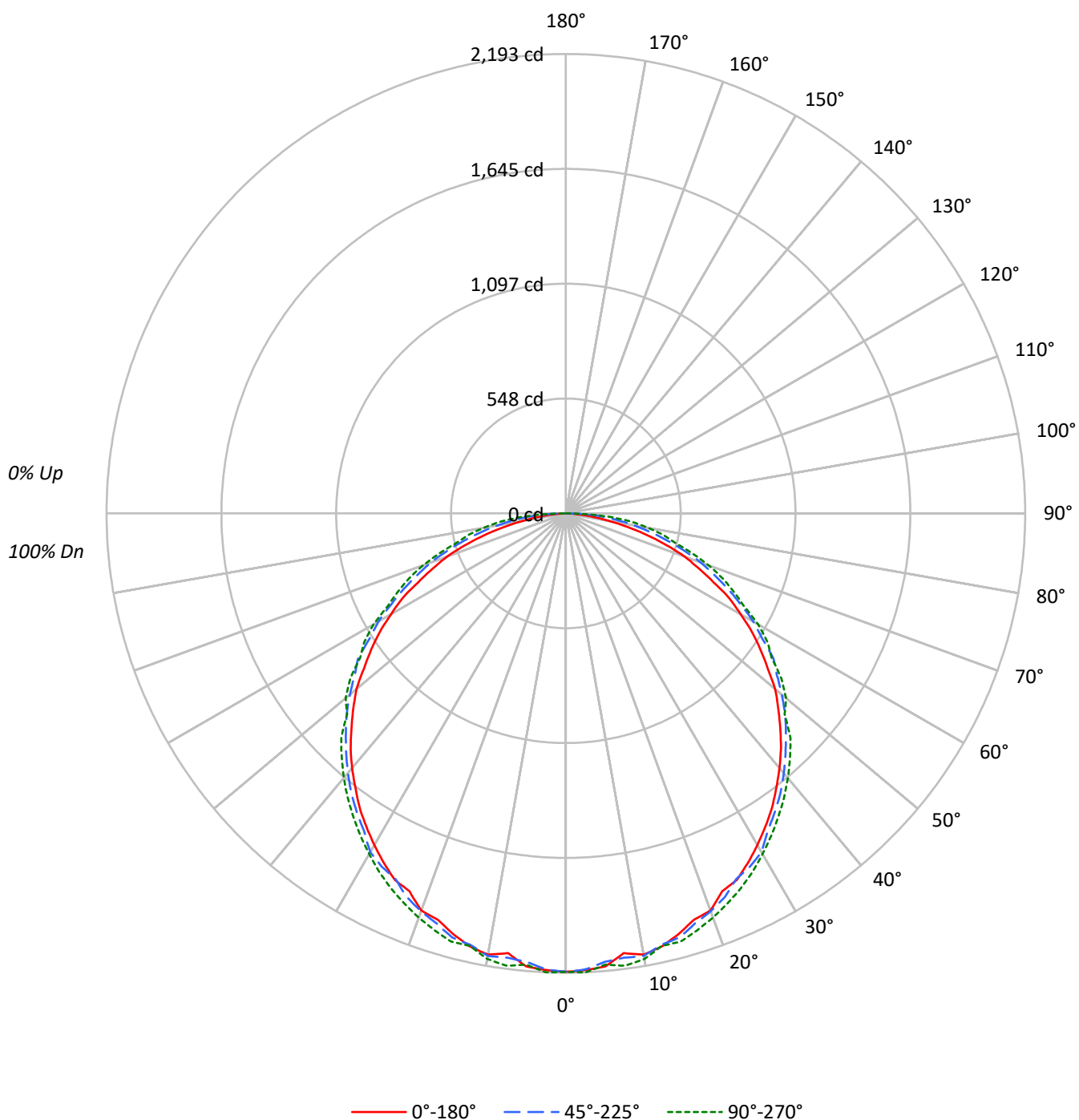
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6533.0 lumens
Efficiency: N/A
Efficacy: 130.4 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°	3352	3352	3352
5°	3337	3303	3325
10°	3327	3336	3359
15°	3297	3324	3356
20°	3289	3295	3347
25°	3263	3254	3338
30°	3233	3303	3322
35°	3209	3254	3307
40°	3174	3236	3296
45°	3134	3219	3284
50°	3108	3206	3269
55°	3030	3234	3201
60°	2953	3165	3247
65°	2820	3097	3203
70°	2704	3070	3249
75°	2394	2978	3184
80°	1890	2910	3522
85°	1156	3110	4016

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 85°

Luminance: 4016 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.7	3.2
10°-20°	590.4	9.0
20°-30°	899.5	13.8
30°-40°	1094.9	16.8
40°-50°	1148.0	17.6
50°-60°	1063.5	16.3
60°-70°	838.6	12.8
70°-80°	518.8	7.9
80°-90°	172.8	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°	1696.5	26.0
0°-40°	2791.4	42.7
0°-60°	5002.8	76.6
0°-90°	6533.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6533.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2188	2188	2188	2188	2188	
5°	2171	2170	2148	2196	2163	205
15°	2079	2090	2096	2081	2116	587
25°	1931	1941	1925	1979	1975	887
35°	1716	1732	1740	1773	1769	1072
45°	1447	1474	1486	1503	1516	1118
55°	1135	1168	1211	1222	1199	1015
65°	778	808	855	887	884	774
75°	405	437	503	542	538	427
85°	66	112	177	215	228	88
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2188.4	2188.4	2188.4	2188.4	2188.4
2.5°	2182.2	2195.6	2178.7	2192.9	2192.9
5°	2170.7	2169.8	2148.4	2195.6	2162.7
7.5°	2117.3	2154.7	2139.5	2197.3	2177.8
10°	2139.5	2129.8	2144.9	2184.0	2160.0
12.5°	2117.3	2133.3	2109.3	2089.7	2114.6
15°	2079.1	2089.7	2096.0	2080.8	2116.4
17.5°	2033.7	2073.7	2052.4	2045.3	2086.2
20°	2017.7	2019.5	2021.3	2057.7	2053.3
22.5°	1951.9	1987.5	1983.0	2012.4	2015.9
25°	1930.6	1941.2	1925.2	1978.6	1975.0
27.5°	1881.7	1904.8	1902.1	1919.9	1929.7
30°	1828.3	1851.4	1867.4	1847.9	1878.1
32.5°	1773.2	1812.3	1794.5	1831.0	1824.7
35°	1716.3	1732.3	1740.3	1773.2	1768.7
37.5°	1650.5	1678.0	1682.5	1732.3	1710.9
40°	1587.3	1614.9	1618.4	1647.8	1648.7
42.5°	1520.6	1534.0	1552.6	1586.4	1583.8
45°	1446.8	1473.5	1485.9	1502.8	1516.2
47.5°	1375.7	1404.1	1420.1	1447.7	1416.6
50°	1304.5	1325.0	1345.4	1374.8	1372.1
52.5°	1214.7	1261.0	1270.7	1286.7	1297.4
55°	1134.7	1168.5	1211.2	1221.8	1198.7
57.5°	1053.8	1079.6	1110.7	1143.6	1140.9
60°	963.9	995.1	1033.3	1058.2	1060.0
62.5°	882.1	903.5	939.9	976.4	957.7
65°	778.1	808.3	854.6	886.6	883.9
67.5°	685.6	718.5	765.6	807.4	809.2
70°	603.8	621.6	685.6	717.6	725.6
72.5°	503.3	534.4	591.4	626.9	630.5
75°	404.6	436.6	503.3	541.6	538.0
77.5°	304.1	350.4	415.3	460.6	475.7
80°	214.3	256.1	329.9	374.4	399.3
82.5°	135.2	178.7	250.8	305.9	321.0
85°	65.8	112.0	177.0	215.2	228.5
87.5°	16.9	46.2	81.8	100.5	108.5
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	16.01	17.68	16.37	17.99	18.30	16.44	18.11	16.80	18.42	18.74
	3H	17.80	19.32	18.18	19.65	20.01	18.51	20.02	18.88	20.35	20.71
	4H	18.45	19.88	18.85	20.23	20.60	19.35	20.78	19.75	21.13	21.50
	6H	18.86	20.19	19.27	20.55	20.94	20.14	21.47	20.55	21.83	22.22
	8H	18.96	20.23	19.38	20.62	21.02	20.48	21.76	20.91	22.14	22.54
	12H	19.01	20.23	19.44	20.61	21.04	20.78	22.00	21.21	22.38	22.81
4H	2H	16.74	18.18	17.14	18.52	18.90	17.08	18.51	17.48	18.86	19.23
	3H	18.78	19.99	19.19	20.38	20.78	19.39	20.60	19.80	20.99	21.39
	4H	19.55	20.65	19.98	21.06	21.49	20.40	21.49	20.83	21.90	22.34
	6H	20.09	21.05	20.54	21.49	21.94	21.35	22.31	21.80	22.75	23.20
	8H	20.23	21.13	20.69	21.57	22.04	21.77	22.67	22.23	23.11	23.58
	12H	20.31	21.12	20.79	21.60	22.07	22.15	22.96	22.63	23.44	23.91
8H	4H	20.00	20.90	20.46	21.34	21.81	20.74	21.64	21.19	22.08	22.54
	6H	20.68	21.43	21.17	21.92	22.39	21.85	22.60	22.34	23.09	23.56
	8H	20.90	21.57	21.40	22.08	22.56	22.40	23.07	22.90	23.58	24.06
	12H	21.04	21.64	21.55	22.13	22.69	22.92	23.52	23.42	24.01	24.56
12H	4H	20.08	20.90	20.56	21.37	21.84	20.77	21.58	21.25	22.06	22.52
	6H	20.81	21.49	21.32	22.00	22.48	21.92	22.60	22.42	23.10	23.58
	8H	21.11	21.71	21.61	22.20	22.76	22.54	23.14	23.05	23.63	24.19