

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: P1589947

Luminaire Tested: 24CZSP-SB-65-L940

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589947
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-7)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24CZSP-SB-65-L940
Description: 2x4 CZSP LED Luminaire, 4000K CCT and 6000 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

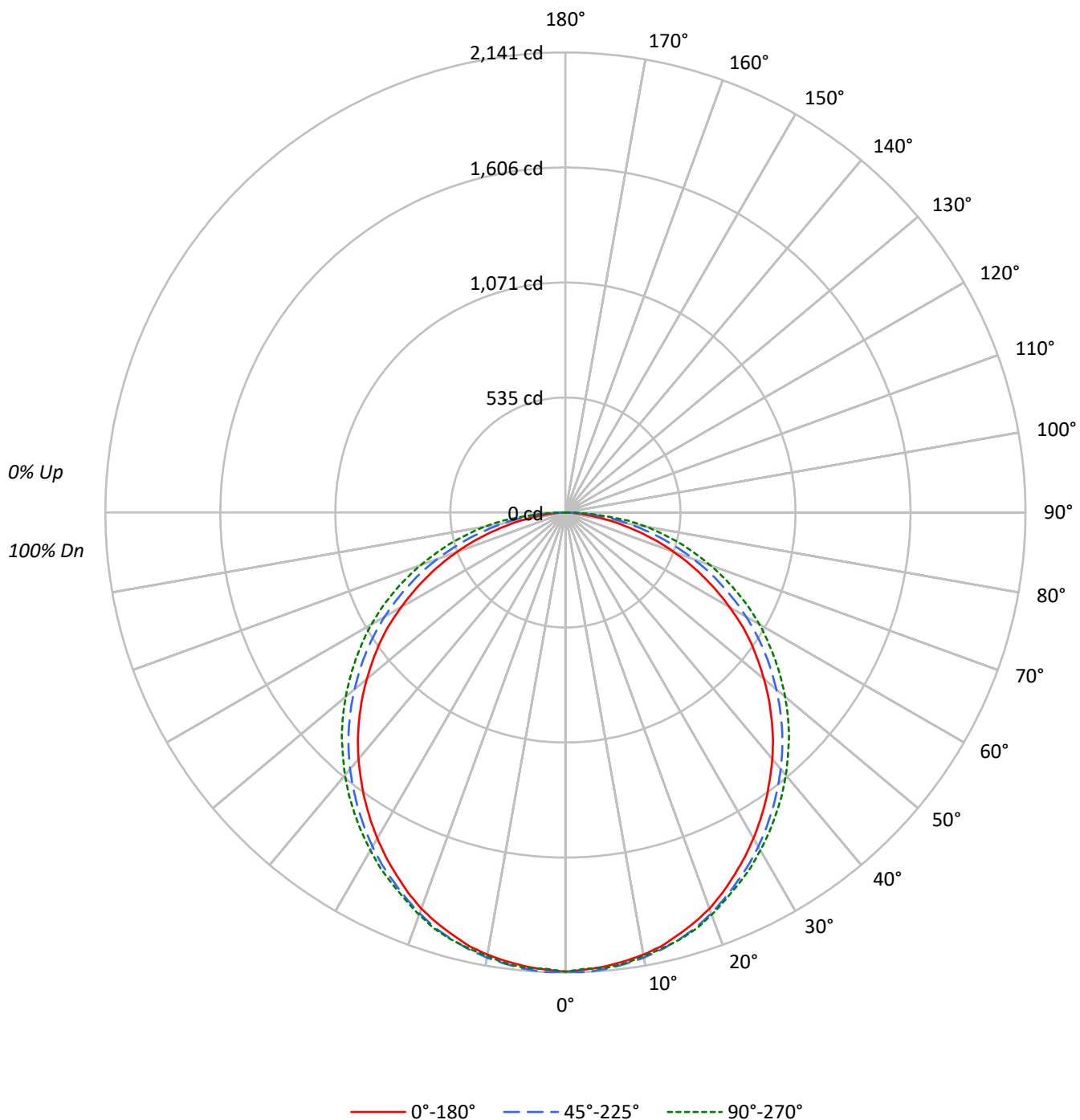
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6236.0 lumens
Efficiency: N/A
Efficacy: 130.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 47.9
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: 28.75 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	106	101	97	93	97	93	90		93	90	88		89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74		81	76	72		78	74	71	68
3	89	79	70	63	87	77	69	63	74	67	62		71	65	61		69	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52		63	57	52		61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40		51	44	39		50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35		47	40	35		45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31		43	36	31		42	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28		39	33	28		38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25		37	30	25		36	30	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3273	3273	3273
5°	3261	3279	3271
10°	3249	3272	3260
15°	3225	3259	3263
20°	3197	3235	3246
25°	3145	3201	3223
30°	3095	3175	3210
35°	3045	3144	3198
40°	2995	3116	3190
45°	2939	3087	3188
50°	2874	3054	3180
55°	2809	3020	3179
60°	2705	2976	3198
65°	2578	2918	3200
70°	2406	2837	3210
75°	2140	2733	3265
80°	1758	2620	3388
85°	1160	2459	3061

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3469 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.1	3.2
10°-20°	578.6	9.3
20°-30°	872.1	14.0
30°-40°	1050.2	16.8
40°-50°	1097.1	17.6
50°-60°	1008.0	16.2
60°-70°	793.8	12.7
70°-80°	486.7	7.8
80°-90°	147.5	2.4
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°	1652.8	26.5
0°-40°	2702.9	43.3
0°-60°	4808.0	77.1
0°-90°	6236.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6236.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2137	2137	2137	2137	2137	
5°	2121	2125	2133	2130	2128	201
15°	2034	2042	2055	2063	2058	574
25°	1861	1873	1894	1914	1907	858
35°	1629	1650	1682	1712	1710	1019
45°	1357	1386	1425	1465	1472	1047
55°	1052	1082	1131	1180	1190	938
65°	711	748	805	859	883	703
75°	362	404	462	517	552	384
85°	66	98	140	156	174	85
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2136.8	2136.8	2136.8	2136.8	2136.8
2.5°	2128.9	2134.2	2140.8	2130.2	2124.9
5°	2121.0	2124.9	2132.9	2130.2	2127.6
7.5°	2106.5	2109.1	2119.7	2119.7	2117.0
10°	2089.3	2094.6	2103.8	2102.5	2095.9
12.5°	2066.9	2070.8	2081.4	2081.4	2077.4
15°	2033.9	2041.8	2055.0	2062.9	2057.6
17.5°	1999.6	2007.5	2024.6	2032.6	2029.9
20°	1961.3	1967.9	1985.0	1996.9	1991.6
22.5°	1913.8	1921.7	1941.5	1954.7	1949.4
25°	1861.0	1872.9	1894.0	1913.8	1907.2
27.5°	1808.2	1821.4	1847.8	1867.6	1864.9
30°	1750.1	1767.3	1795.0	1820.1	1814.8
32.5°	1690.7	1710.5	1739.6	1766.0	1764.6
35°	1628.7	1649.8	1681.5	1711.8	1710.5
37.5°	1562.7	1587.8	1620.8	1653.8	1655.1
40°	1498.0	1521.8	1558.7	1594.4	1595.7
42.5°	1429.4	1454.5	1494.1	1531.0	1532.3
45°	1356.8	1385.8	1425.4	1465.0	1471.6
47.5°	1282.9	1313.2	1354.2	1396.4	1404.3
50°	1206.3	1238.0	1281.6	1326.4	1334.4
52.5°	1128.5	1161.5	1206.3	1251.2	1263.1
55°	1051.9	1082.3	1131.1	1179.9	1190.5
57.5°	971.4	999.1	1051.9	1103.4	1116.6
60°	883.0	917.3	971.4	1022.9	1044.0
62.5°	797.2	834.1	889.6	941.0	964.8
65°	711.4	748.4	805.1	859.2	883.0
67.5°	624.3	662.6	723.3	774.7	801.1
70°	537.2	575.5	633.5	689.0	716.7
72.5°	450.1	491.0	547.7	604.5	632.2
75°	361.6	403.9	461.9	517.4	551.7
77.5°	278.5	319.4	377.5	434.2	463.3
80°	199.3	240.2	297.0	353.7	384.1
82.5°	126.7	165.0	220.4	267.9	295.6
85°	66.0	97.7	139.9	155.7	174.2
87.5°	19.8	38.3	54.1	60.7	75.2
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	15.6	17.3	16.0	17.6	17.9	16.4	18.0	16.7	18.4	18.7
	3H	17.4	18.9	17.8	19.2	19.6	18.5	20.0	18.9	20.3	20.7
	4H	18.0	19.4	18.4	19.8	20.2	19.4	20.8	19.8	21.1	21.5
	6H	18.4	19.8	18.8	20.1	20.5	20.1	21.4	20.5	21.8	22.2
	8H	18.5	19.8	19.0	20.2	20.6	20.4	21.7	20.9	22.1	22.5
	12H	18.6	19.8	19.0	20.2	20.6	20.7	21.9	21.1	22.2	22.7
4H	2H	16.4	17.8	16.8	18.2	18.5	17.0	18.4	17.4	18.8	19.1
	3H	18.4	19.6	18.8	20.0	20.4	19.3	20.5	19.7	20.9	21.3
	4H	19.2	20.2	19.6	20.6	21.1	20.3	21.4	20.8	21.8	22.3
	6H	19.7	20.6	20.1	21.1	21.5	21.3	22.2	21.7	22.7	23.1
	8H	19.8	20.7	20.3	21.2	21.6	21.7	22.6	22.1	23.0	23.5
	12H	19.9	20.7	20.4	21.2	21.7	21.9	22.7	22.4	23.2	23.7
8H	4H	19.6	20.5	20.1	20.9	21.4	20.6	21.5	21.1	22.0	22.4
	6H	20.3	21.0	20.8	21.5	22.0	21.7	22.5	22.2	23.0	23.4
	8H	20.5	21.2	21.0	21.7	22.2	22.2	22.9	22.7	23.4	23.9
	12H	20.6	21.2	21.2	21.7	22.3	22.6	23.2	23.1	23.7	24.2
12H	4H	19.7	20.5	20.2	21.0	21.4	20.7	21.5	21.2	22.0	22.4
	6H	20.4	21.1	20.9	21.6	22.1	21.8	22.5	22.3	22.9	23.5
	8H	20.7	21.3	21.2	21.8	22.3	22.3	22.9	22.8	23.4	24.0

(END OF REPORT)