

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: P1588454

Luminaire Tested: 24CZSP-65-L835-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588454
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-6)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24CZSP-65-L835-S
Description: 2x4 CZSP LED Luminaire, 3500K CCT and 6000 lumens, 80CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

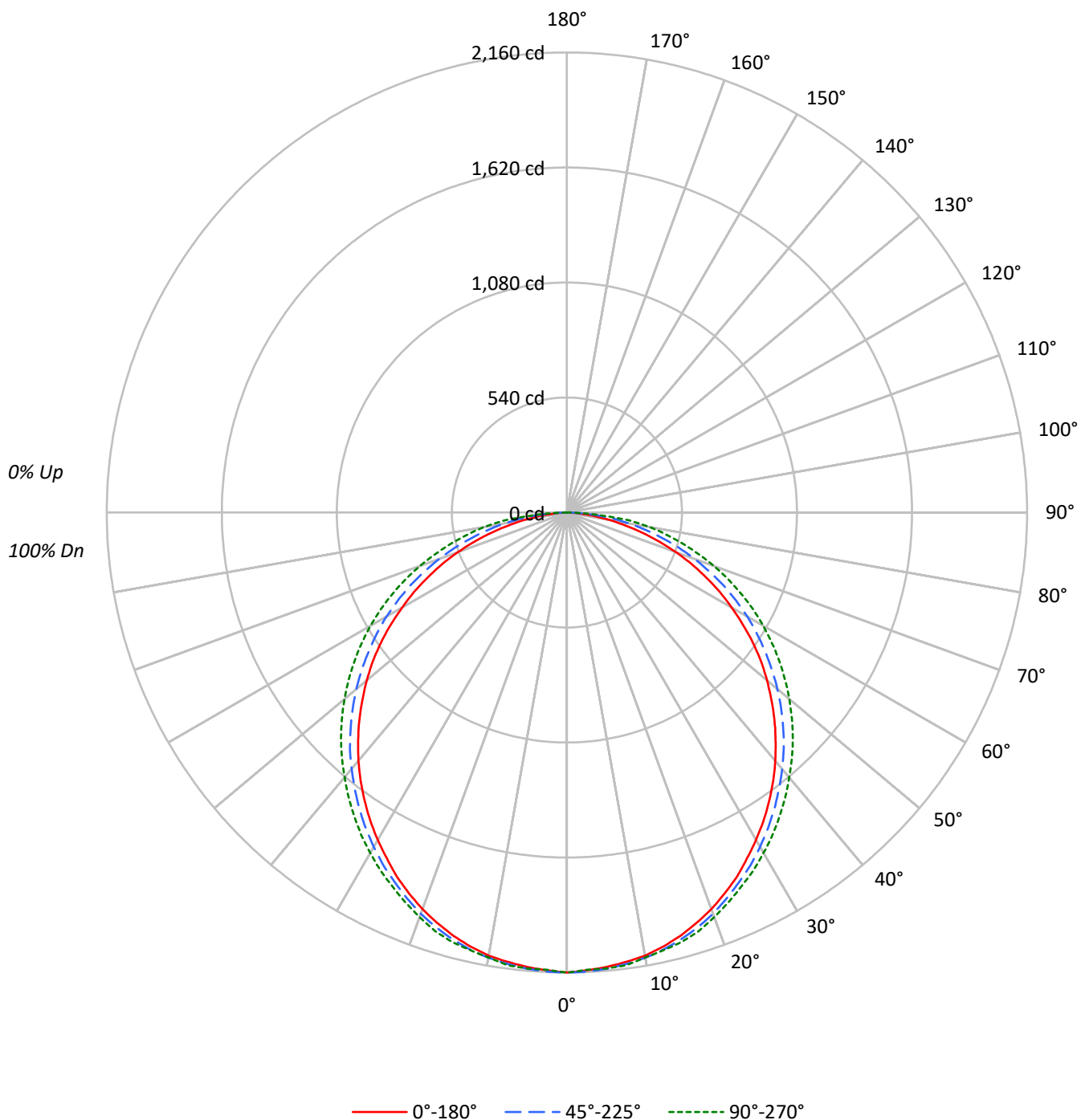
Lumens per Lamp: N/A
Luminaire Lumens: 6306.0 lumens
Efficiency: N/A
Efficacy: 131.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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: 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	30	10	50	30	10
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	69		
3	89	79	70	64	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°	3308	3308	3308
5°	3293	3306	3304
10°	3286	3301	3299
15°	3263	3289	3309
20°	3230	3268	3295
25°	3190	3234	3274
30°	3140	3206	3265
35°	3094	3174	3255
40°	3043	3143	3245
45°	2985	3111	3249
50°	2921	3073	3248
55°	2845	3030	3252
60°	2738	2997	3260
65°	2613	2939	3270
70°	2435	2857	3284
75°	2170	2743	3316
80°	1794	2612	3479
85°	1167	2358	3040

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3588 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.3	3.2
10°-20°	584.9	9.3
20°-30°	882.2	14.0
30°-40°	1062.5	16.8
40°-50°	1109.7	17.6
50°-60°	1019.1	16.2
60°-70°	802.7	12.7
70°-80°	492.4	7.8
80°-90°	148.2	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°	1671.4	26.5
0°-40°	2733.9	43.4
0°-60°	4862.7	77.1
0°-90°	6306.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6306.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2160	2160	2160	2160	2160	
5°	2142	2145	2150	2157	2149	204
15°	2058	2062	2074	2087	2087	580
25°	1887	1892	1914	1937	1937	869
35°	1655	1663	1698	1732	1741	1035
45°	1378	1393	1436	1486	1500	1063
55°	1066	1085	1135	1198	1218	951
65°	721	746	811	879	902	713
75°	367	396	464	537	560	389
85°	66	91	134	170	173	87
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2160.0	2160.0	2160.0	2160.0	2160.0
2.5°	2151.7	2155.8	2157.2	2158.6	2148.9
5°	2142.0	2144.8	2150.3	2157.2	2148.9
7.5°	2128.1	2130.9	2137.8	2147.5	2143.4
10°	2112.9	2114.3	2122.6	2129.5	2121.2
12.5°	2088.0	2092.2	2101.9	2107.4	2104.6
15°	2057.6	2061.7	2074.2	2086.6	2086.6
17.5°	2021.6	2027.1	2042.4	2059.0	2060.3
20°	1981.5	1985.6	2005.0	2021.6	2021.6
22.5°	1935.8	1941.3	1960.7	1978.7	1981.5
25°	1887.4	1891.5	1913.7	1937.2	1937.2
27.5°	1830.7	1839.0	1866.6	1890.1	1895.7
30°	1775.3	1782.2	1812.7	1841.7	1845.9
32.5°	1717.2	1725.5	1757.3	1789.1	1796.1
35°	1654.9	1663.2	1697.8	1732.4	1740.7
37.5°	1589.9	1599.6	1635.5	1675.7	1684.0
40°	1522.1	1533.2	1571.9	1614.8	1623.1
42.5°	1450.1	1465.4	1506.9	1551.1	1563.6
45°	1378.2	1393.4	1436.3	1486.1	1499.9
47.5°	1302.1	1320.1	1364.3	1416.9	1432.1
50°	1226.0	1244.0	1289.6	1346.4	1363.0
52.5°	1148.5	1166.5	1213.5	1273.0	1291.0
55°	1065.5	1084.8	1134.6	1198.3	1217.7
57.5°	979.7	1004.6	1057.2	1122.2	1141.6
60°	893.9	918.8	978.3	1041.9	1064.1
62.5°	809.5	833.0	893.9	961.7	985.2
65°	720.9	745.8	810.9	878.7	902.2
67.5°	633.7	658.6	723.7	794.3	819.2
70°	543.8	571.5	637.9	708.5	733.4
72.5°	453.9	482.9	550.7	622.7	646.2
75°	366.7	395.7	463.5	536.9	560.4
77.5°	280.9	312.7	379.1	453.9	476.0
80°	203.4	233.8	296.1	369.5	394.4
82.5°	130.1	156.4	218.6	287.8	305.8
85°	66.4	91.3	134.2	170.2	173.0
87.5°	20.8	29.1	44.3	66.4	67.8
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	15.63	17.30	16.00	17.61	17.93	16.46	18.13	16.83	18.44	18.76
	3H	17.39	18.90	17.77	19.22	19.58	18.58	20.09	18.96	20.42	20.77
	4H	18.01	19.43	18.41	19.78	20.15	19.47	20.89	19.87	21.24	21.61
	6H	18.42	19.74	18.83	20.10	20.49	20.25	21.57	20.66	21.94	22.33
	8H	18.53	19.79	18.95	20.18	20.58	20.57	21.83	21.00	22.22	22.62
	12H	18.58	19.79	19.01	20.17	20.60	20.78	21.99	21.21	22.38	22.80
4H	2H	16.41	17.83	16.80	18.18	18.55	17.05	18.48	17.45	18.82	19.20
	3H	18.38	19.58	18.79	19.98	20.38	19.41	20.61	19.82	21.00	21.40
	4H	19.12	20.21	19.55	20.62	21.05	20.46	21.55	20.89	21.96	22.39
	6H	19.65	20.60	20.10	21.04	21.49	21.41	22.36	21.87	22.80	23.26
	8H	19.80	20.69	20.25	21.13	21.59	21.81	22.70	22.27	23.14	23.61
	12H	19.88	20.68	20.36	21.16	21.63	22.09	22.89	22.57	23.36	23.83
8H	4H	19.58	20.47	20.04	20.91	21.38	20.75	21.64	21.21	22.08	22.55
	6H	20.24	20.99	20.73	21.47	21.95	21.86	22.61	22.35	23.09	23.57
	8H	20.45	21.12	20.96	21.62	22.11	22.37	23.04	22.88	23.55	24.03
	12H	20.59	21.18	21.10	21.67	22.23	22.76	23.35	23.26	23.84	24.40
12H	4H	19.67	20.47	20.15	20.95	21.42	20.77	21.58	21.25	22.05	22.52
	6H	20.37	21.04	20.88	21.55	22.03	21.91	22.58	22.42	23.08	23.57
	8H	20.65	21.24	21.16	21.73	22.29	22.49	23.08	22.99	23.57	24.13