

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: P1588907

Luminaire Tested: 24CZSP-A-80-L940

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588907
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2604-747-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24CZSP-A-80-L940
Description: 2x4 CZSP LED Luminaire, 4000K CCT and 8000 lumens, 90CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

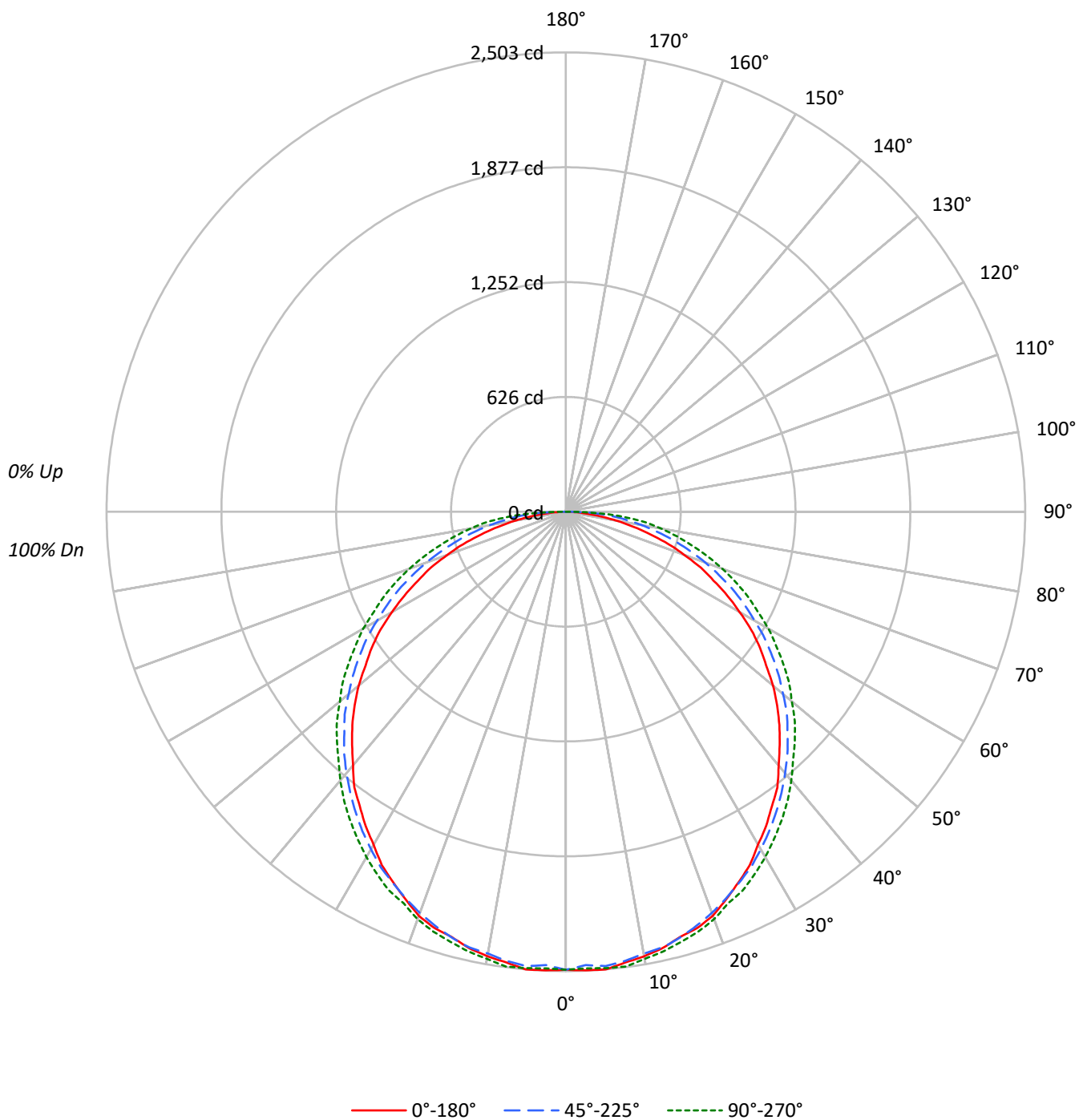
Lumens per Lamp: N/A
Luminaire Lumens: 7617.0 lumens
Efficiency: N/A
Efficacy: 121.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.39
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 62.7
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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	103	98	94	105	100	96	92	96	93	89		92	89	87		89
2	98	89	82	76	95	87	80	75	83	78	73		80	75	71		77
3	89	78	69	62	86	76	68	62	73	66	61		70	64	60		68
4	81	69	60	53	79	67	59	52	65	57	51		62	56	51		60
5	74	61	52	45	72	60	51	45	58	50	44		56	49	44		54
6	69	55	46	39	67	54	45	39	52	44	39		50	44	38		49
7	64	50	41	35	62	49	40	34	47	40	34		46	39	34		45
8	59	45	37	31	58	45	36	31	43	36	30		42	35	30		41
9	55	42	33	28	54	41	33	28	40	33	27		39	32	27		38
10	52	38	30	25	51	38	30	25	37	30	25		36	29	25		35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3822	3822	3822
5°	3848	3820	3837
10°	3824	3802	3847
15°	3804	3810	3847
20°	3818	3791	3850
25°	3764	3770	3850
30°	3704	3755	3842
35°	3660	3735	3834
40°	3607	3717	3822
45°	3564	3698	3821
50°	3512	3682	3829
55°	3449	3668	3863
60°	3353	3643	3906
65°	3220	3643	3967
70°	3072	3619	4060
75°	2828	3627	4210
80°	2478	3701	4634
85°	1891	4263	5546

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 87.5°

Luminance: 6148 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.0	3.1
10°-20°	681.1	8.9
20°-30°	1034.6	13.6
30°-40°	1253.3	16.5
40°-50°	1318.6	17.3
50°-60°	1226.0	16.1
60°-70°	987.1	13.0
70°-80°	639.5	8.4
80°-90°	239.8	3.1
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°	1952.7	25.6
0°-40°	3206.0	42.1
0°-60°	5750.6	75.5
0°-90°	7617.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7617.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2496	2496	2496	2496	2496	
5°	2503	2499	2485	2499	2496	237
15°	2399	2408	2402	2432	2426	680
25°	2227	2226	2231	2269	2278	1027
35°	1957	1972	1998	2032	2050	1226
45°	1645	1667	1707	1744	1764	1269
55°	1292	1324	1374	1428	1447	1152
65°	888	928	1005	1065	1094	883
75°	478	525	613	684	711	508
85°	108	159	243	303	316	132
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2495.5	2495.5	2495.5	2495.5	2495.5
2.5°	2501.0	2501.0	2471.8	2502.8	2490.0
5°	2502.8	2499.1	2484.6	2499.1	2495.5
7.5°	2477.3	2480.9	2468.1	2486.4	2499.1
10°	2459.0	2462.7	2444.4	2473.6	2473.6
12.5°	2435.3	2439.0	2431.7	2459.0	2453.5
15°	2398.8	2407.9	2402.5	2431.7	2426.2
17.5°	2378.8	2371.5	2366.0	2387.9	2398.8
20°	2342.3	2325.9	2325.9	2355.0	2362.3
22.5°	2283.9	2278.4	2280.2	2316.7	2309.4
25°	2227.3	2225.5	2231.0	2269.3	2278.4
27.5°	2170.8	2167.1	2183.6	2220.0	2227.3
30°	2094.2	2101.5	2123.4	2163.5	2172.6
32.5°	2030.3	2043.1	2063.2	2101.5	2112.4
35°	1957.4	1972.0	1997.5	2032.2	2050.4
37.5°	1893.5	1902.6	1930.0	1962.8	1984.7
40°	1804.1	1827.8	1858.9	1906.3	1911.8
42.5°	1723.9	1747.6	1787.7	1838.8	1833.3
45°	1645.4	1667.3	1707.4	1743.9	1764.0
47.5°	1561.5	1581.6	1634.5	1678.3	1692.9
50°	1474.0	1499.5	1545.1	1590.7	1607.1
52.5°	1375.4	1402.8	1461.2	1510.4	1534.1
55°	1291.5	1324.4	1373.6	1428.3	1446.6
57.5°	1198.5	1225.9	1286.1	1340.8	1359.0
60°	1094.5	1127.4	1189.4	1247.8	1275.1
62.5°	994.2	1030.7	1096.3	1156.5	1178.4
65°	888.4	928.5	1005.1	1065.3	1094.5
67.5°	797.2	830.0	904.8	972.3	1003.3
70°	685.9	729.7	808.1	882.9	906.6
72.5°	587.4	625.7	707.8	782.6	811.8
75°	477.9	525.4	612.9	684.1	711.4
77.5°	377.6	426.9	514.4	589.2	620.2
80°	280.9	328.4	419.6	496.2	525.4
82.5°	189.7	237.1	328.4	403.1	436.0
85°	107.6	158.7	242.6	302.8	315.6
87.5°	47.4	91.2	136.8	164.2	175.1
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	16.34	18.02	16.71	18.34	18.65	17.02	18.70	17.38	19.01	19.33
	3H	18.20	19.73	18.57	20.05	20.41	19.24	20.76	19.61	21.09	21.45
	4H	18.88	20.33	19.28	20.67	21.05	20.20	21.64	20.60	21.99	22.36
	6H	19.38	20.72	19.79	21.08	21.47	21.09	22.43	21.50	22.80	23.19
	8H	19.52	20.81	19.95	21.20	21.59	21.49	22.78	21.92	23.17	23.56
	12H	19.61	20.84	20.04	21.23	21.65	21.85	23.09	22.28	23.47	23.90
4H	2H	17.14	18.58	17.53	18.93	19.30	17.66	19.10	18.05	19.45	19.82
	3H	19.22	20.45	19.63	20.84	21.24	20.12	21.34	20.52	21.73	22.13
	4H	20.04	21.15	20.47	21.57	22.00	21.24	22.35	21.67	22.77	23.20
	6H	20.67	21.64	21.12	22.08	22.54	22.31	23.29	22.77	23.73	24.18
	8H	20.87	21.78	21.32	22.22	22.69	22.80	23.72	23.26	24.16	24.62
	12H	21.00	21.83	21.48	22.30	22.77	23.26	24.08	23.74	24.56	25.03
8H	4H	20.55	21.47	21.01	21.91	22.37	21.59	22.50	22.04	22.94	23.41
	6H	21.34	22.10	21.83	22.59	23.06	22.84	23.60	23.33	24.09	24.56
	8H	21.62	22.31	22.13	22.81	23.30	23.46	24.15	23.97	24.65	25.14
	12H	21.84	22.45	22.34	22.94	23.50	24.07	24.68	24.58	25.17	25.73
12H	4H	20.66	21.49	21.14	21.96	22.43	21.63	22.45	22.10	22.93	23.39
	6H	21.50	22.20	22.01	22.70	23.18	22.91	23.60	23.42	24.11	24.59
	8H	21.87	22.49	22.38	22.98	23.53	23.62	24.23	24.12	24.72	25.28

END OF REPORT