

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: P1588735

Luminaire Tested: 24CZSP-A-57HE-L835

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588735
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2603-711-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24CZSP-A-57HE-L835
Description: 2x4 CZSP LED Luminaire, 3500K CCT and 5500 lumens, 80CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

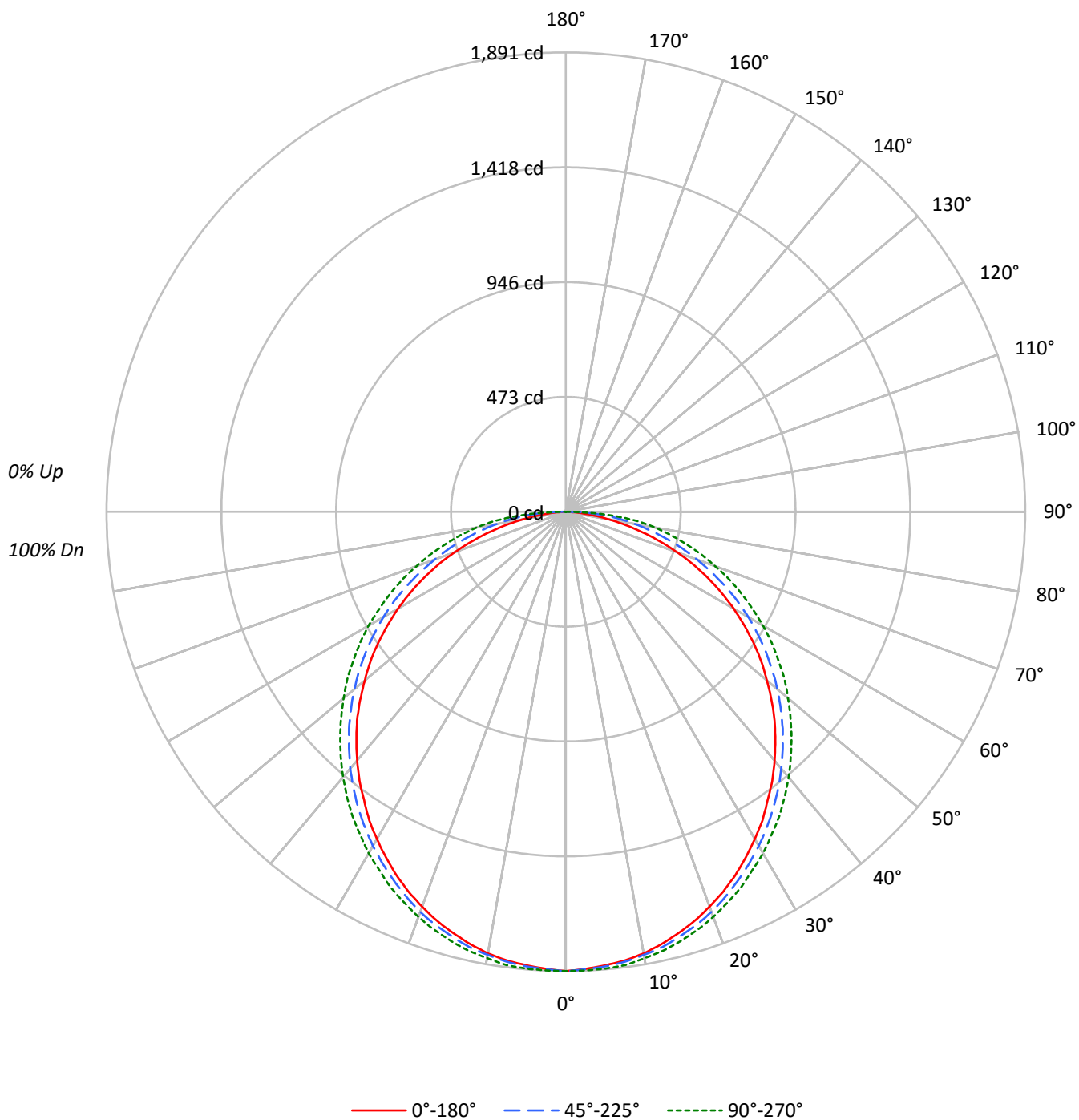
Lumens per Lamp: N/A
Luminaire Lumens: 5610.0 lumens
Efficiency: N/A
Efficacy: 142.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 39.4
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	98	94	105	101	97	93	96	93	90		92	90	87		89	87	85	82
2	98	89	82	76	95	87	81	75	84	78	73		81	76	72		77	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	29
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°	2896	2896	2896
5°	2881	2888	2903
10°	2871	2881	2903
15°	2846	2871	2900
20°	2819	2857	2893
25°	2789	2831	2884
30°	2752	2809	2872
35°	2709	2784	2862
40°	2673	2760	2853
45°	2633	2734	2845
50°	2575	2708	2845
55°	2521	2683	2852
60°	2445	2659	2873
65°	2341	2617	2892
70°	2190	2573	2927
75°	1948	2536	3023
80°	1603	2547	3286
85°	1091	2838	3629

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 85°

Luminance: 3629 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.0	3.2
10°-20°	512.4	9.1
20°-30°	774.9	13.8
30°-40°	935.1	16.7
40°-50°	977.7	17.4
50°-60°	902.1	16.1
60°-70°	717.3	12.8
70°-80°	452.7	8.1
80°-90°	158.7	2.8
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°	1466.3	26.1
0°-40°	2401.4	42.8
0°-60°	4281.2	76.3
0°-90°	5610.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5610.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1891	1891	1891	1891	1891	
5°	1874	1888	1879	1883	1888	178
15°	1795	1815	1810	1824	1829	507
25°	1650	1675	1675	1697	1706	760
35°	1449	1480	1489	1518	1531	908
45°	1216	1242	1262	1300	1314	936
55°	944	972	1005	1053	1068	843
65°	646	675	722	782	798	638
75°	329	366	428	492	511	349
85°	62	102	162	200	206	79
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1891.1	1891.1	1891.1	1891.1	1891.1
2.5°	1883.4	1895.8	1884.9	1891.1	1889.6
5°	1874.1	1888.0	1878.7	1883.4	1888.0
7.5°	1863.2	1878.7	1867.9	1875.6	1881.8
10°	1846.1	1861.6	1852.3	1861.6	1866.3
12.5°	1822.8	1841.5	1835.3	1846.1	1850.8
15°	1794.9	1815.1	1810.4	1824.4	1829.0
17.5°	1765.4	1787.1	1784.0	1799.5	1804.2
20°	1729.7	1754.5	1753.0	1768.5	1774.7
22.5°	1692.4	1717.3	1715.7	1732.8	1740.5
25°	1650.5	1675.3	1675.3	1697.1	1706.4
27.5°	1603.9	1631.9	1633.4	1655.1	1662.9
30°	1555.8	1583.7	1588.4	1611.7	1624.1
32.5°	1506.1	1532.5	1540.2	1566.6	1576.0
35°	1448.6	1479.7	1489.0	1518.5	1530.9
37.5°	1395.8	1423.8	1436.2	1467.3	1479.7
40°	1336.8	1366.3	1380.3	1414.5	1426.9
42.5°	1276.3	1305.8	1321.3	1358.6	1371.0
45°	1215.7	1242.1	1262.3	1299.6	1313.6
47.5°	1149.0	1178.5	1200.2	1240.6	1254.6
50°	1080.7	1111.7	1136.6	1180.0	1194.0
52.5°	1015.4	1043.4	1071.3	1119.5	1135.0
55°	944.0	972.0	1004.6	1052.7	1068.2
57.5°	871.0	899.0	936.3	987.5	1004.6
60°	798.1	826.0	867.9	920.7	937.8
62.5°	722.0	749.9	796.5	850.9	866.4
65°	645.9	675.4	722.0	782.5	798.1
67.5°	568.3	597.8	647.5	711.1	728.2
70°	489.1	521.7	574.5	638.1	653.7
72.5°	406.8	444.1	503.1	565.2	583.8
75°	329.2	366.4	428.5	492.2	510.8
77.5°	253.1	295.0	357.1	423.9	444.1
80°	181.7	223.6	288.8	354.0	372.6
82.5°	116.5	159.9	225.1	287.2	302.8
85°	62.1	102.5	161.5	200.3	206.5
87.5°	20.2	52.8	73.0	96.3	97.8
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	15.25	16.92	15.62	17.24	17.55	15.97	17.64	16.34	17.96	18.27
	3H	17.04	18.56	17.42	18.88	19.24	18.14	19.66	18.52	19.98	20.34
	4H	17.67	19.10	18.07	19.45	19.82	19.07	20.51	19.47	20.85	21.23
	6H	18.09	19.42	18.50	19.79	20.18	19.93	21.26	20.34	21.63	22.02
	8H	18.20	19.48	18.63	19.87	20.26	20.31	21.58	20.73	21.97	22.37
	12H	18.26	19.48	18.69	19.87	20.29	20.62	21.84	21.05	22.22	22.65
4H	2H	16.02	17.45	16.41	17.80	18.17	16.58	18.01	16.97	18.36	18.73
	3H	18.04	19.25	18.45	19.64	20.04	18.99	20.20	19.40	20.59	20.99
	4H	18.80	19.90	19.23	20.31	20.75	20.09	21.19	20.52	21.60	22.04
	6H	19.36	20.32	19.81	20.76	21.21	21.13	22.10	21.59	22.54	22.99
	8H	19.51	20.42	19.97	20.86	21.32	21.60	22.50	22.06	22.94	23.41
	12H	19.61	20.43	20.09	20.90	21.37	21.99	22.81	22.47	23.28	23.75
8H	4H	19.29	20.19	19.75	20.63	21.10	20.41	21.31	20.87	21.75	22.22
	6H	20.00	20.75	20.49	21.24	21.71	21.63	22.38	22.12	22.87	23.34
	8H	20.24	20.92	20.75	21.42	21.91	22.22	22.90	22.73	23.41	23.89
	12H	20.41	21.01	20.92	21.50	22.06	22.77	23.37	23.27	23.86	24.42
12H	4H	19.39	20.21	19.87	20.68	21.15	20.44	21.26	20.92	21.73	22.20
	6H	20.16	20.84	20.66	21.34	21.83	21.69	22.37	22.20	22.88	23.36
	8H	20.48	21.09	20.99	21.58	22.13	22.37	22.97	22.87	23.46	24.02