

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: P1589726

Luminaire Tested: 24CZSP-SB-37HE-L940-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589726
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-8)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24CZSP-SB-37HE-L940-S
Description: 2x4 CZSP LED Luminaire, 4000K CCT and 3500 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

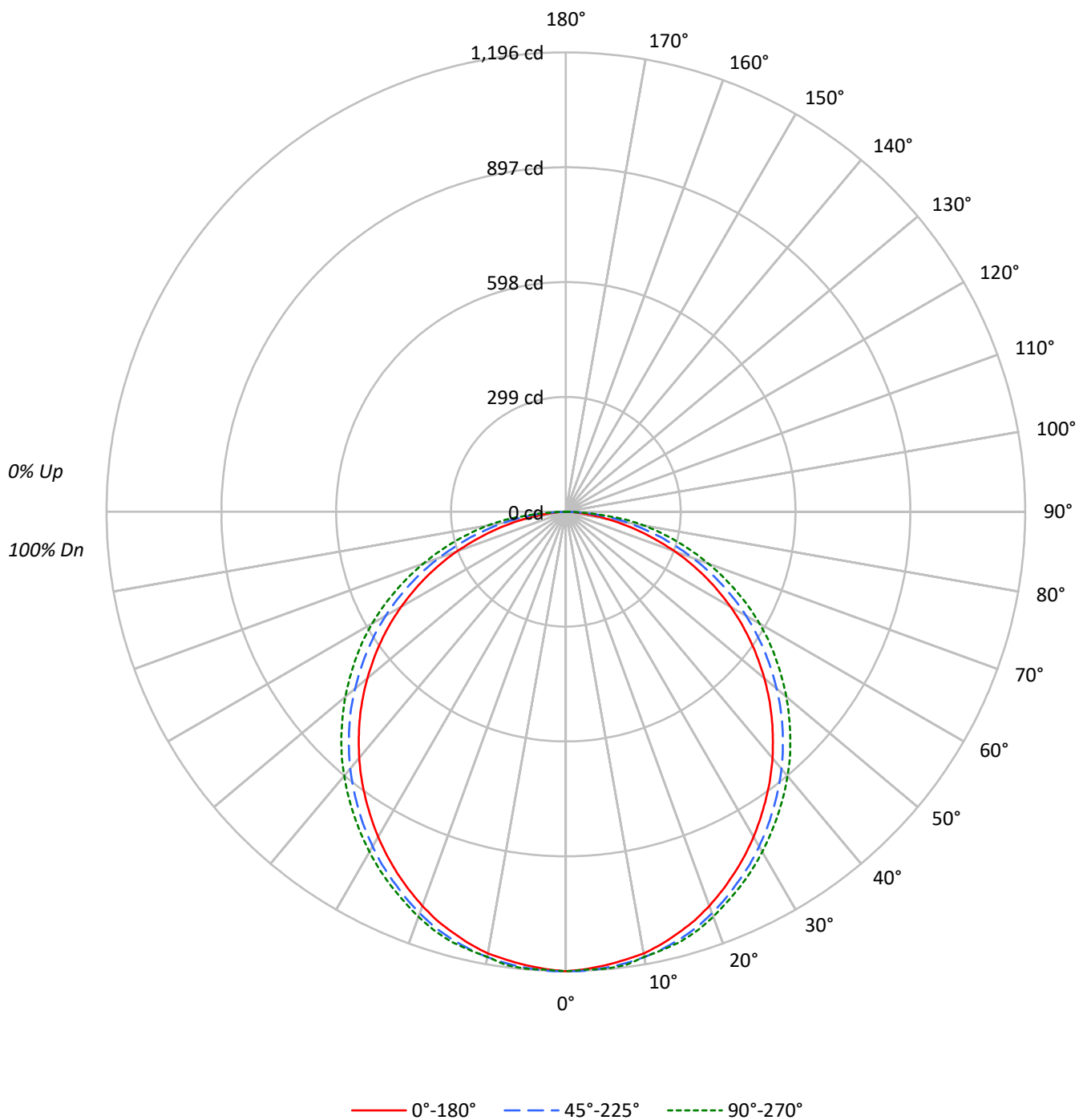
Lumens per Lamp: N/A
Luminaire Lumens: 3480.0 lumens
Efficiency: N/A
Efficacy: 140.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 24.7
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				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	94	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	66	61		69	64	60		58
4	82	70	61	54	79	68	60	53	66	58	53		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	45	39		50	44	39		37
7	64	51	42	35	63	50	41	35	48	41	35		47	40	35		45	39	35		33
8	60	46	38	32	58	45	37	31	44	37	31		43	36	31		42	35	31		29
9	56	42	34	28	54	42	34	28	41	33	28		39	33	28		38	32	28		26
10	52	39	31	26	51	39	31	26	38	30	26		37	30	25		36	30	25		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1832	1832	1832
5°	1822	1832	1836
10°	1816	1831	1830
15°	1800	1826	1836
20°	1780	1813	1829
25°	1755	1795	1818
30°	1729	1780	1809
35°	1701	1762	1800
40°	1673	1747	1795
45°	1643	1729	1790
50°	1607	1707	1786
55°	1567	1685	1783
60°	1518	1660	1784
65°	1449	1625	1774
70°	1354	1576	1770
75°	1201	1515	1777
80°	977	1439	1829
85°	631	1329	1578

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 1854 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.2	3.3
10°-20°	324.2	9.3
20°-30°	488.8	14.0
30°-40°	588.2	16.9
40°-50°	613.5	17.6
50°-60°	562.3	16.2
60°-70°	441.6	12.7
70°-80°	268.8	7.7
80°-90°	79.5	2.3
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°	926.2	26.6
0°-40°	1514.3	43.5
0°-60°	2690.2	77.3
0°-90°	3480.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3480.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1196	1196	1196	1196	1196	
5°	1185	1193	1192	1190	1194	113
15°	1135	1146	1151	1153	1158	320
25°	1038	1053	1062	1069	1076	478
35°	910	924	942	956	963	569
45°	758	774	798	817	826	585
55°	587	602	631	656	668	524
65°	400	415	448	478	490	395
75°	203	222	256	287	300	215
85°	36	51	76	85	90	47
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1196.3	1196.3	1196.3	1196.3	1196.3
2.5°	1191.8	1197.8	1196.3	1191.1	1193.3
5°	1185.1	1192.6	1191.8	1190.3	1194.1
7.5°	1176.8	1185.1	1185.8	1185.8	1190.3
10°	1167.9	1176.1	1177.6	1175.3	1176.8
12.5°	1152.9	1162.6	1165.6	1165.6	1167.9
15°	1134.9	1146.1	1151.4	1152.9	1158.1
17.5°	1115.5	1127.4	1134.2	1137.9	1142.4
20°	1092.2	1105.0	1112.5	1116.9	1122.2
22.5°	1066.0	1080.3	1088.5	1093.0	1099.0
25°	1038.3	1052.6	1062.3	1069.0	1075.8
27.5°	1009.1	1022.6	1036.1	1044.3	1050.3
30°	977.7	991.9	1006.2	1016.6	1022.6
32.5°	944.0	959.0	975.5	986.7	993.4
35°	909.6	923.8	942.5	956.0	962.7
37.5°	874.4	889.4	908.8	923.1	931.3
40°	837.0	852.7	873.6	889.4	897.6
42.5°	798.0	813.0	836.2	854.2	863.9
45°	758.4	774.1	798.0	816.8	826.5
47.5°	717.2	732.2	758.4	780.1	788.3
50°	674.5	688.7	716.4	739.6	749.4
52.5°	631.1	646.1	673.8	698.5	708.9
55°	586.9	601.9	631.1	656.5	667.8
57.5°	542.0	557.0	586.9	613.1	626.6
60°	495.6	510.6	542.0	569.0	582.4
62.5°	447.7	463.4	495.6	523.3	537.5
65°	399.8	414.7	448.4	478.4	489.6
67.5°	351.9	366.8	399.8	429.7	443.2
70°	302.4	319.7	351.9	383.3	395.3
72.5°	250.8	270.3	302.4	335.4	347.4
75°	202.9	221.6	256.0	286.7	300.2
77.5°	155.7	175.9	208.1	239.6	253.0
80°	110.8	130.3	163.2	193.1	207.4
82.5°	70.4	87.6	120.5	147.5	158.0
85°	35.9	50.9	75.6	84.6	89.8
87.5°	10.5	18.0	27.0	33.7	37.4
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	13.60	15.26	13.97	15.58	15.89	14.34	16.00	14.70	16.31	16.63
	3H	15.37	16.88	15.75	17.20	17.56	16.42	17.92	16.79	18.25	18.61
	4H	15.99	17.41	16.39	17.76	18.13	17.28	18.70	17.68	19.05	19.42
	6H	16.40	17.72	16.81	18.08	18.47	18.03	19.35	18.44	19.71	20.10
	8H	16.50	17.76	16.93	18.15	18.55	18.32	19.58	18.75	19.97	20.37
	12H	16.55	17.76	16.98	18.14	18.57	18.52	19.72	18.95	20.11	20.53
4H	2H	14.37	15.79	14.77	16.14	16.51	14.94	16.36	15.34	16.71	17.08
	3H	16.36	17.56	16.77	17.96	18.35	17.26	18.45	17.67	18.85	19.25
	4H	17.11	18.19	17.54	18.60	19.04	18.27	19.36	18.71	19.77	20.21
	6H	17.63	18.58	18.09	19.02	19.48	19.18	20.13	19.63	20.57	21.02
	8H	17.78	18.67	18.24	19.11	19.57	19.55	20.44	20.01	20.88	21.34
	12H	17.86	18.66	18.34	19.13	19.60	19.80	20.60	20.28	21.08	21.54
8H	4H	17.55	18.44	18.01	18.88	19.35	18.57	19.46	19.03	19.90	20.37
	6H	18.21	18.96	18.71	19.44	19.92	19.63	20.37	20.12	20.86	21.33
	8H	18.42	19.09	18.93	19.59	20.08	20.10	20.77	20.61	21.27	21.76
	12H	18.56	19.15	19.07	19.64	20.20	20.45	21.04	20.96	21.53	22.09
12H	4H	17.63	18.43	18.11	18.91	19.38	18.60	19.40	19.08	19.87	20.34
	6H	18.34	19.01	18.85	19.51	19.99	19.68	20.35	20.19	20.85	21.34
	8H	18.62	19.20	19.12	19.69	20.25	20.22	20.81	20.72	21.30	21.86