

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: P1585858

Luminaire Tested: 14CZSP-SB-70-L845-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585858
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-4)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-SB-70-L845-S
Description: 1x4 CZSP LED Luminaire, 4500K CCT and 6700 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

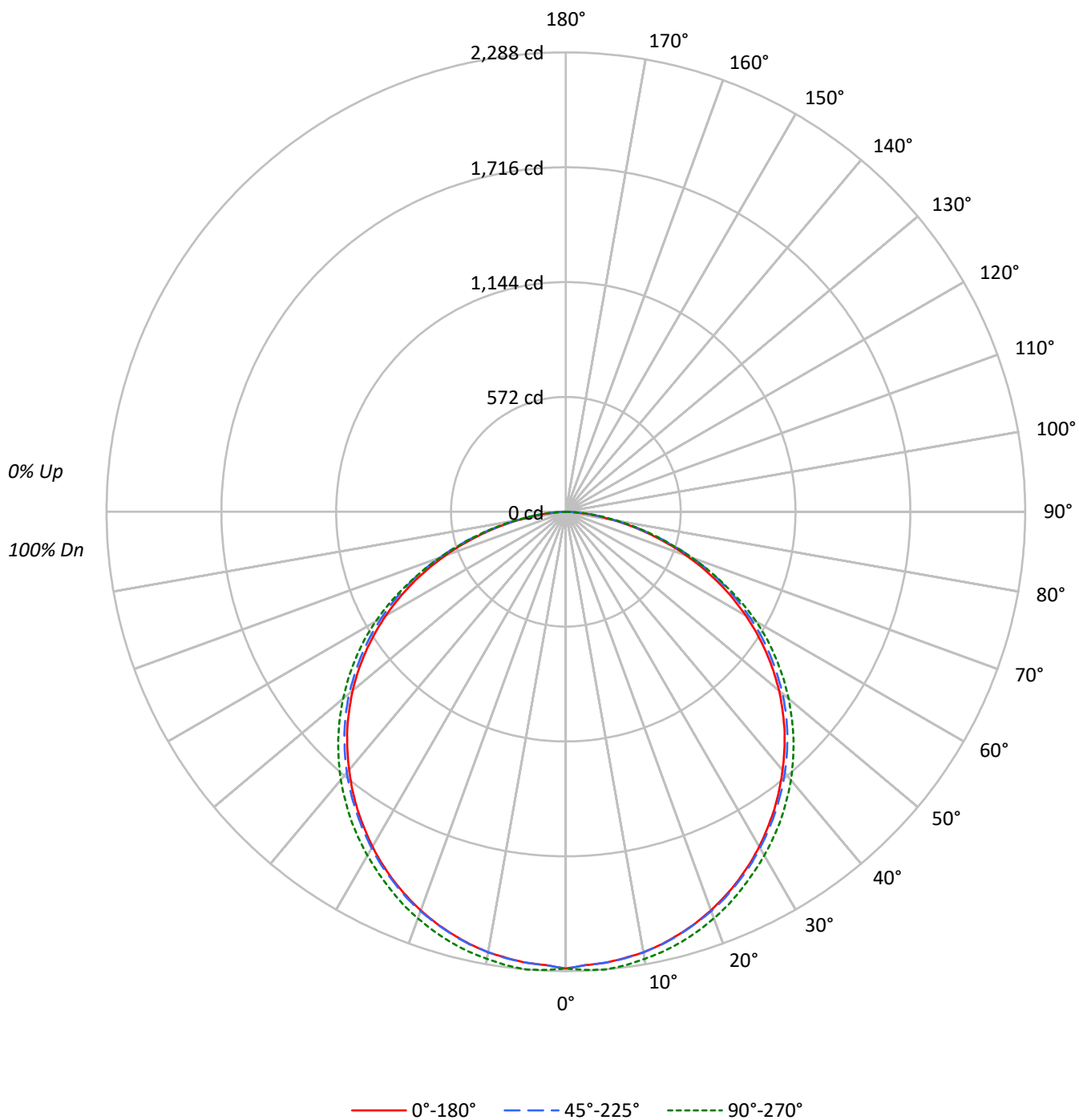
Lumens per Lamp: N/A
Luminaire Lumens: 6713.0 lumens
Efficiency: N/A
Efficacy: 125.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 53.4
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	109	104	99	96	106	102	98	94	97	94	91		93	91	88		90	88	86	84
2	99	90	83	77	96	88	82	77	85	79	75		81	77	73		78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62		72	66	61		69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53		64	57	52		61	56	52	49
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		55	49	45	43
6	70	56	47	40	68	55	46	40	53	46	40		52	45	40		50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35		47	40	35		46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	31		43	36	31		42	36	31	29
9	56	42	34	28	55	42	34	28	41	33	28		40	33	28		39	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°	7665	7665	7665
5°	7628	7625	7740
10°	7625	7622	7738
15°	7602	7609	7742
20°	7578	7593	7730
25°	7540	7559	7705
30°	7495	7527	7691
35°	7446	7493	7687
40°	7388	7465	7673
45°	7343	7436	7642
50°	7269	7382	7592
55°	7156	7289	7518
60°	6982	7163	7385
65°	6721	6975	7048
70°	6319	6613	6572
75°	5674	5915	5955
80°	4688	4927	5187
85°	3139	3657	3855

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7642 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.6	3.2
10°-20°	619.7	9.2
20°-30°	943.7	14.1
30°-40°	1148.5	17.1
40°-50°	1210.8	18.0
50°-60°	1115.2	16.6
60°-70°	861.3	12.8
70°-80°	482.0	7.2
80°-90°	116.2	1.7
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°	1779.0	26.5
0°-40°	2927.6	43.6
0°-60°	5253.6	78.3
0°-90°	6713.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6713.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2275	2275	2275	2275	2275	
5°	2255	2287	2254	2257	2288	214
15°	2179	2209	2181	2194	2219	615
25°	2028	2057	2033	2047	2072	935
35°	1810	1837	1822	1844	1869	1132
45°	1541	1562	1560	1584	1604	1187
55°	1218	1239	1241	1266	1280	1087
65°	843	868	875	883	884	833
75°	436	463	454	453	457	462
85°	81	89	95	106	100	104
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2274.8	2274.8	2274.8	2274.8	2274.8
2.5°	2260.4	2293.3	2260.4	2265.5	2284.0
5°	2255.3	2287.1	2254.2	2257.3	2288.2
7.5°	2241.9	2274.8	2244.0	2248.1	2277.9
10°	2228.5	2258.3	2227.5	2232.6	2261.4
12.5°	2205.9	2236.8	2208.0	2214.1	2242.9
15°	2179.2	2209.0	2181.2	2193.6	2219.3
17.5°	2148.4	2177.1	2150.4	2164.8	2189.5
20°	2113.4	2141.2	2117.5	2127.8	2155.6
22.5°	2072.3	2101.1	2078.5	2087.7	2117.5
25°	2028.1	2056.9	2033.2	2046.6	2072.3
27.5°	1979.8	2007.5	1987.0	2003.4	2026.0
30°	1926.3	1953.0	1934.5	1954.1	1976.7
32.5°	1868.8	1897.5	1879.0	1901.7	1924.3
35°	1810.2	1836.9	1821.5	1844.1	1868.8
37.5°	1746.4	1772.1	1760.8	1784.5	1807.1
40°	1679.6	1708.4	1697.1	1721.8	1744.4
42.5°	1610.8	1638.5	1629.3	1655.0	1674.5
45°	1540.9	1562.4	1560.4	1584.0	1603.6
47.5°	1463.8	1490.5	1486.4	1510.0	1527.5
50°	1386.7	1408.3	1408.3	1430.9	1448.3
52.5°	1303.4	1325.0	1325.0	1351.7	1366.1
55°	1218.1	1238.6	1240.7	1266.4	1279.8
57.5°	1127.6	1149.2	1153.3	1179.0	1191.4
60°	1036.1	1056.7	1062.9	1088.6	1095.8
62.5°	940.5	965.2	968.3	988.9	993.0
65°	842.9	867.6	874.8	883.0	884.0
67.5°	743.2	768.9	776.1	776.1	776.1
70°	641.4	665.1	671.2	667.1	667.1
72.5°	538.6	564.3	561.2	557.1	559.2
75°	435.8	462.6	454.3	453.3	457.4
77.5°	337.2	362.9	349.5	357.7	358.7
80°	241.6	261.1	253.9	266.2	267.3
82.5°	155.2	167.6	169.6	179.9	176.8
85°	81.2	89.4	94.6	105.9	99.7
87.5°	25.7	33.9	30.8	36.0	27.8
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	19.11	20.77	19.48	21.08	21.39	19.33	20.98	19.69	21.30	21.61
	3H	20.93	22.43	21.31	22.76	23.12	21.13	22.63	21.50	22.95	23.31
	4H	21.58	22.99	21.98	23.34	23.71	21.77	23.18	22.16	23.52	23.90
	6H	22.01	23.32	22.42	23.68	24.07	22.22	23.53	22.63	23.89	24.28
	8H	22.12	23.37	22.54	23.76	24.15	22.35	23.60	22.77	23.99	24.39
	12H	22.17	23.37	22.60	23.75	24.18	22.43	23.63	22.86	24.01	24.44
4H	2H	19.79	21.20	20.19	21.55	21.92	19.96	21.37	20.36	21.72	22.09
	3H	21.83	23.02	22.24	23.41	23.81	21.97	23.16	22.38	23.56	23.96
	4H	22.61	23.68	23.04	24.10	24.53	22.73	23.80	23.16	24.22	24.65
	6H	23.16	24.10	23.61	24.54	24.99	23.31	24.24	23.76	24.68	25.14
	8H	23.31	24.18	23.77	24.63	25.09	23.48	24.36	23.94	24.80	25.26
	12H	23.39	24.18	23.87	24.65	25.12	23.59	24.38	24.07	24.86	25.33
8H	4H	22.92	23.80	23.38	24.24	24.70	23.03	23.90	23.49	24.35	24.81
	6H	23.58	24.31	24.07	24.79	25.27	23.71	24.44	24.20	24.92	25.40
	8H	23.78	24.44	24.29	24.94	25.43	23.95	24.60	24.45	25.11	25.59
	12H	23.92	24.50	24.42	24.99	25.55	24.12	24.70	24.63	25.19	25.75
12H	4H	22.95	23.74	23.43	24.21	24.68	23.05	23.84	23.53	24.32	24.79
	6H	23.62	24.28	24.13	24.78	25.27	23.75	24.40	24.26	24.91	25.40
	8H	23.88	24.46	24.39	24.95	25.51	24.04	24.62	24.55	25.11	25.67