

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: P1587826

Luminaire Tested: 22CZSP-SB-60HE-L940-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587826
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: 22CZSP-SB-60HE-L940-S
Description: 2x2 CZSP LED Luminaire, 4000K CCT and 6700 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

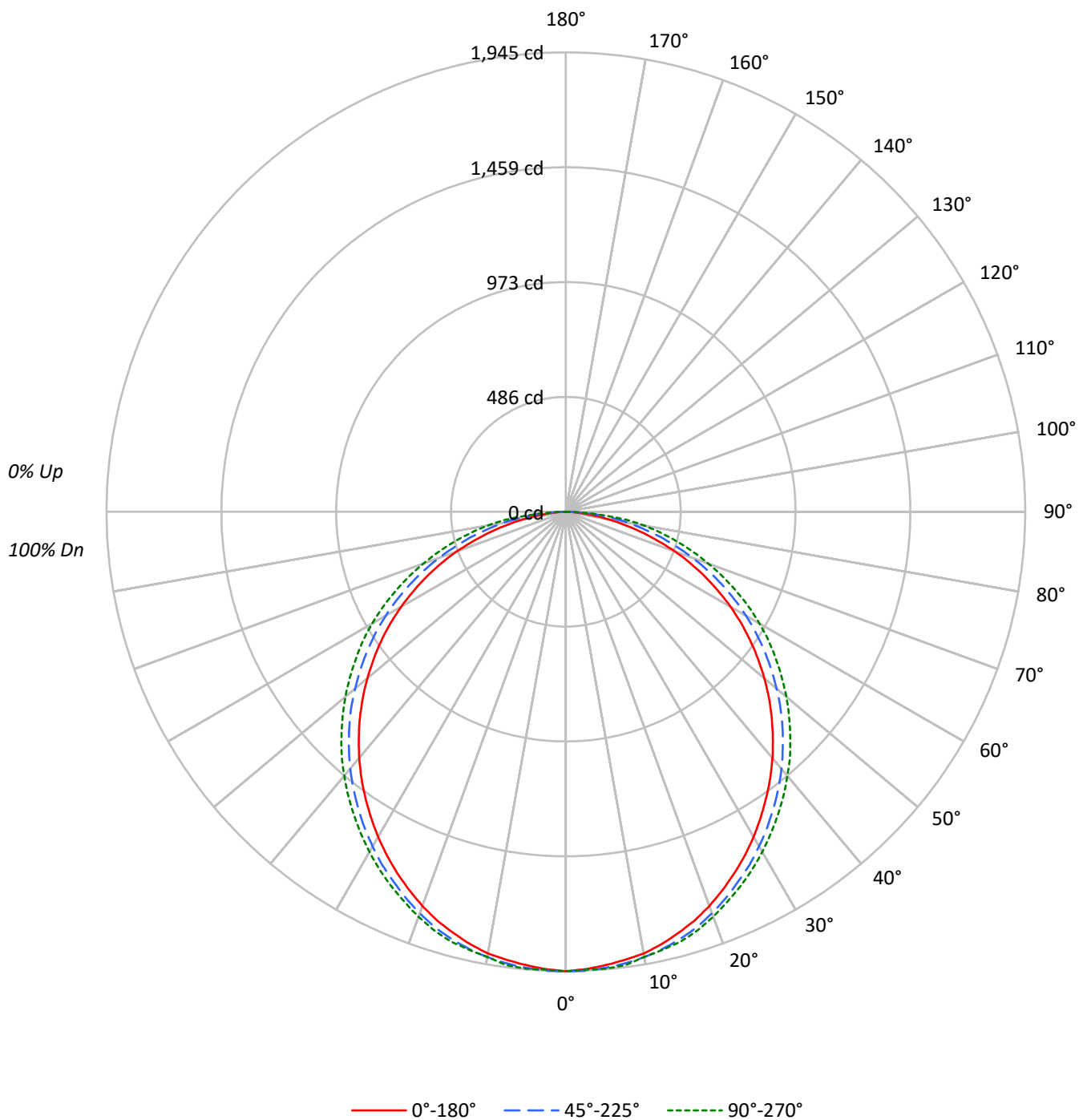
Lumens per Lamp: N/A
Luminaire Lumens: 5659.0 lumens
Efficiency: N/A
Efficacy: 136.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 41.5
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	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°	6092	6092	6092
5°	6057	6092	6103
10°	6038	6089	6085
15°	5983	6070	6105
20°	5919	6028	6081
25°	5834	5969	6044
30°	5749	5916	6013
35°	5654	5859	5984
40°	5563	5807	5966
45°	5461	5747	5952
50°	5344	5675	5936
55°	5210	5602	5928
60°	5047	5520	5931
65°	4817	5403	5899
70°	4503	5239	5885
75°	3991	5037	5906
80°	3249	4786	6081
85°	2098	4419	5249

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 6163 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.1	3.3
10°-20°	527.2	9.3
20°-30°	794.9	14.0
30°-40°	956.4	16.9
40°-50°	997.6	17.6
50°-60°	914.4	16.2
60°-70°	718.1	12.7
70°-80°	437.0	7.7
80°-90°	129.3	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°	1506.1	26.6
0°-40°	2462.6	43.5
0°-60°	4374.6	77.3
0°-90°	5659.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5659.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1945	1945	1945	1945	1945	
5°	1927	1939	1938	1936	1942	183
15°	1846	1864	1872	1875	1883	521
25°	1688	1712	1728	1738	1749	778
35°	1479	1502	1533	1555	1566	926
45°	1233	1259	1298	1328	1344	951
55°	954	979	1026	1068	1086	853
65°	650	674	729	778	796	643
75°	330	360	416	466	488	350
85°	58	83	123	138	146	76
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1945.4	1945.4	1945.4	1945.4	1945.4
2.5°	1938.1	1947.8	1945.4	1936.8	1940.5
5°	1927.1	1939.3	1938.1	1935.6	1941.7
7.5°	1913.7	1927.1	1928.3	1928.3	1935.6
10°	1899.1	1912.5	1914.9	1911.3	1913.7
12.5°	1874.8	1890.6	1895.5	1895.5	1899.1
15°	1845.5	1863.8	1872.3	1874.8	1883.3
17.5°	1813.9	1833.4	1844.3	1850.4	1857.7
20°	1776.2	1796.8	1809.0	1816.3	1824.8
22.5°	1733.5	1756.7	1770.1	1777.4	1787.1
25°	1688.5	1711.6	1727.5	1738.4	1749.4
27.5°	1641.0	1662.9	1684.8	1698.2	1708.0
30°	1589.9	1613.0	1636.2	1653.2	1662.9
32.5°	1535.1	1559.5	1586.2	1604.5	1615.5
35°	1479.1	1502.2	1532.7	1554.6	1565.5
37.5°	1421.9	1446.2	1477.9	1501.0	1514.4
40°	1361.0	1386.6	1420.7	1446.2	1459.6
42.5°	1297.7	1322.1	1359.8	1389.0	1404.9
45°	1233.2	1258.8	1297.7	1328.2	1344.0
47.5°	1166.2	1190.6	1233.2	1268.5	1281.9
50°	1096.9	1120.0	1165.0	1202.8	1218.6
52.5°	1026.2	1050.6	1095.6	1135.8	1152.9
55°	954.4	978.8	1026.2	1067.6	1085.9
57.5°	881.4	905.7	954.4	997.0	1018.9
60°	805.9	830.3	881.4	925.2	947.1
62.5°	728.0	753.6	805.9	850.9	874.1
65°	650.1	674.4	729.2	777.9	796.2
67.5°	572.2	596.5	650.1	698.8	720.7
70°	491.8	519.8	572.2	623.3	642.8
72.5°	407.8	439.5	491.8	545.4	564.9
75°	329.9	360.3	416.3	466.3	488.2
77.5°	253.2	286.1	338.4	389.6	411.5
80°	180.2	211.8	265.4	314.1	337.2
82.5°	114.4	142.4	196.0	239.8	256.9
85°	58.4	82.8	123.0	137.6	146.1
87.5°	17.0	29.2	43.8	54.8	60.9
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	17.78	19.44	18.14	19.75	20.07	18.51	20.17	18.88	20.49	20.80
	3H	19.55	21.05	19.92	21.38	21.74	20.59	22.10	20.97	22.42	22.78
	4H	20.17	21.58	20.56	21.93	22.31	21.46	22.88	21.85	23.22	23.60
	6H	20.57	21.89	20.98	22.26	22.65	22.20	23.52	22.61	23.88	24.27
	8H	20.68	21.94	21.10	22.33	22.72	22.50	23.76	22.92	24.15	24.54
	12H	20.73	21.93	21.15	22.31	22.74	22.69	23.90	23.12	24.28	24.71
4H	2H	18.55	19.97	18.94	20.31	20.69	19.12	20.54	19.51	20.88	21.26
	3H	20.54	21.73	20.95	22.13	22.53	21.43	22.63	21.84	23.02	23.42
	4H	21.28	22.36	21.71	22.78	23.21	22.45	23.53	22.88	23.94	24.38
	6H	21.81	22.76	22.26	23.20	23.65	23.35	24.30	23.81	24.74	25.20
	8H	21.95	22.84	22.41	23.28	23.74	23.72	24.61	24.18	25.05	25.52
	12H	22.03	22.83	22.51	23.31	23.77	23.98	24.78	24.45	25.25	25.72
8H	4H	21.72	22.61	22.18	23.06	23.52	22.75	23.64	23.21	24.08	24.54
	6H	22.39	23.13	22.88	23.62	24.09	23.80	24.55	24.30	25.03	25.51
	8H	22.60	23.26	23.10	23.77	24.25	24.28	24.94	24.78	25.45	25.93
	12H	22.73	23.32	23.24	23.81	24.37	24.63	25.22	25.13	25.71	26.27
12H	4H	21.81	22.61	22.28	23.08	23.55	22.77	23.57	23.25	24.05	24.52
	6H	22.51	23.18	23.02	23.68	24.17	23.85	24.52	24.36	25.03	25.51
	8H	22.79	23.38	23.29	23.87	24.43	24.39	24.98	24.90	25.47	26.03