

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: P1584719

Luminaire Tested: 14CZSP-A-60VHE-L845

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584719
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2605-776-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-A-60VHE-L845
Description: 1x4 CZSP LED Luminaire, 4500K CCT and 6200 lumens, 80CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

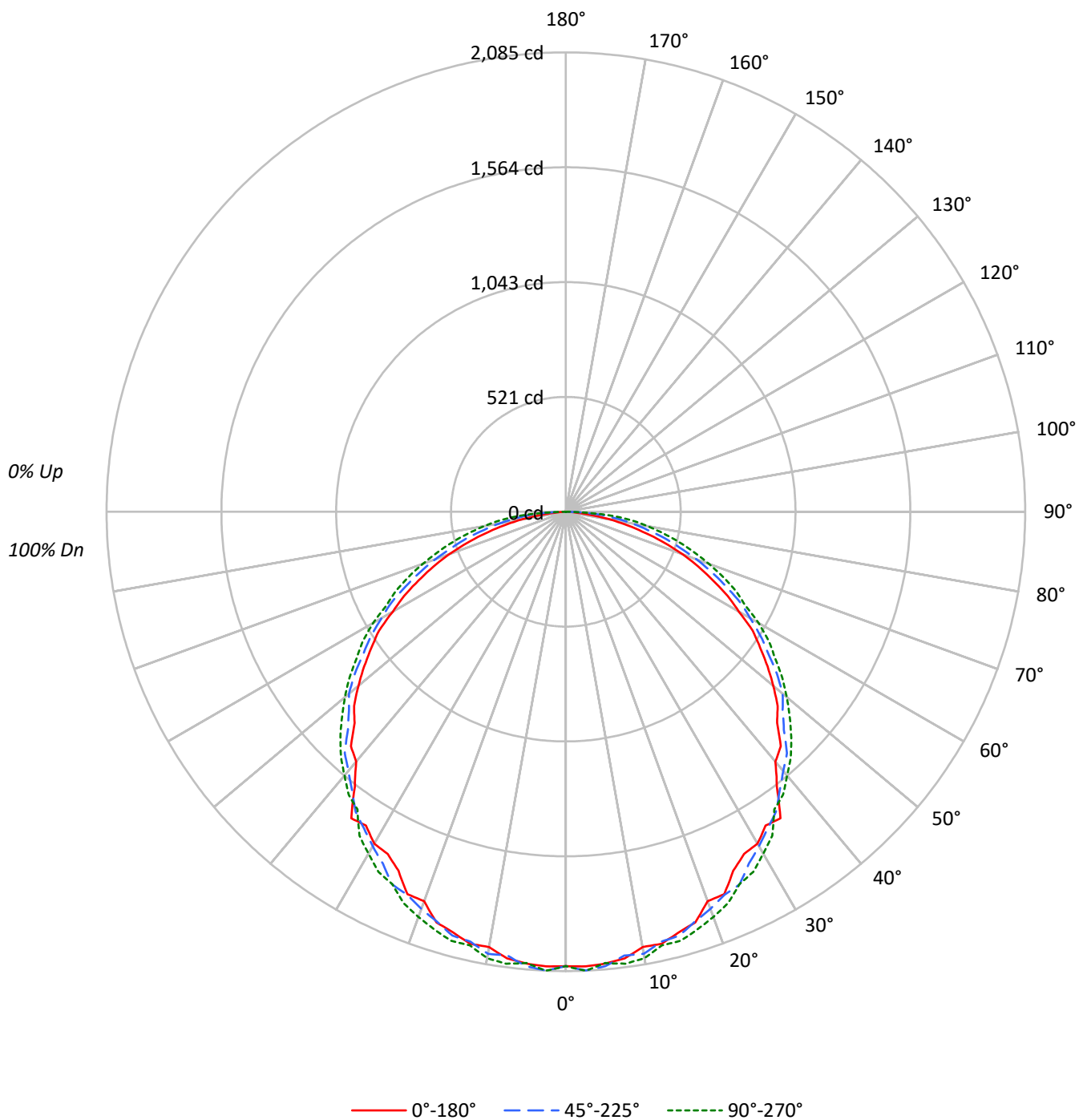
Lumens per Lamp: N/A
Luminaire Lumens: 6182.0 lumens
Efficiency: N/A
Efficacy: 140.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 43.9
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	105	101	97	93	97	93	90		93	90	87		89	87	85	83
2	98	89	82	76	95	88	81	75	84	78	74		81	76	72		78	74	70	68
3	89	78	70	63	87	77	69	63	74	67	61		71	65	60		68	63	59	57
4	82	69	60	53	79	68	59	53	65	58	52		63	57	51		61	55	51	48
5	75	62	52	46	73	61	52	45	58	51	45		56	50	44		55	49	44	42
6	69	55	46	40	67	54	46	40	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°	6949	6949	6949
5°	6962	7001	6954
10°	6864	6969	7038
15°	6895	6946	7032
20°	6744	6877	7018
25°	6684	6937	6933
30°	6768	6821	6970
35°	6985	6840	6784
40°	6510	6754	6875
45°	6461	6669	6896
50°	6445	6734	6862
55°	6329	6586	6810
60°	6115	6509	6810
65°	5879	6396	6795
70°	5558	6219	6805
75°	4911	6073	6930
80°	4042	5918	7341
85°	2258	6244	8173

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 85°

Luminance: 8173 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.5	3.2
10°-20°	561.1	9.1
20°-30°	852.7	13.8
30°-40°	1036.9	16.8
40°-50°	1088.5	17.6
50°-60°	1006.7	16.3
60°-70°	793.1	12.8
70°-80°	487.5	7.9
80°-90°	160.1	2.6
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°	1609.3	26.0
0°-40°	2646.2	42.8
0°-60°	4741.4	76.7
0°-90°	6182.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6182.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2062	2062	2062	2062	2062	
5°	2058	2022	2070	2052	2056	195
15°	1976	1971	1991	2018	2016	557
25°	1798	1831	1866	1860	1865	835
35°	1698	1637	1663	1688	1649	1029
45°	1356	1384	1399	1440	1447	1054
55°	1077	1111	1121	1150	1159	963
65°	737	766	802	837	852	730
75°	377	419	466	514	532	401
85°	58	102	162	198	211	82
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2062.4	2062.4	2062.4	2062.4	2062.4
2.5°	2065.6	2068.8	2083.7	2050.7	2084.7
5°	2058.2	2022.0	2069.9	2051.8	2056.0
7.5°	2044.4	2048.6	2031.6	2042.2	2068.8
10°	2006.1	2032.7	2036.9	2041.2	2057.1
12.5°	2008.2	1991.2	1998.7	2029.5	2015.7
15°	1976.4	1971.0	1991.2	2017.8	2015.7
17.5°	1954.0	1942.4	1949.8	1962.5	1987.0
20°	1880.7	1911.5	1917.9	1957.2	1957.2
22.5°	1878.6	1877.5	1881.8	1902.0	1923.2
25°	1797.8	1830.8	1865.8	1860.5	1864.8
27.5°	1751.1	1788.3	1800.0	1836.1	1842.5
30°	1739.4	1745.8	1753.2	1792.5	1791.5
32.5°	1688.4	1699.0	1704.3	1726.7	1743.7
35°	1698.0	1637.4	1662.9	1688.4	1649.1
37.5°	1573.6	1583.2	1593.8	1613.0	1619.3
40°	1480.1	1504.6	1535.4	1557.7	1563.0
42.5°	1444.0	1480.1	1485.5	1505.6	1511.0
45°	1355.8	1384.5	1399.4	1439.8	1447.2
47.5°	1303.8	1308.0	1334.6	1372.8	1378.1
50°	1229.4	1258.1	1284.6	1301.6	1309.1
52.5°	1153.9	1185.8	1207.1	1223.0	1237.9
55°	1077.4	1111.4	1121.0	1149.7	1159.2
57.5°	1006.2	1016.9	1047.7	1075.3	1092.3
60°	907.4	943.5	965.9	1016.9	1010.5
62.5°	827.7	852.2	893.6	919.1	915.9
65°	737.4	766.1	802.2	837.3	852.2
67.5°	651.3	689.6	716.2	761.9	772.5
70°	564.2	582.3	631.2	675.8	690.7
72.5°	470.7	499.4	541.9	590.8	608.8
75°	377.2	418.6	466.5	514.3	532.3
77.5°	289.0	325.1	379.3	434.6	452.6
80°	208.3	241.2	305.0	356.0	378.3
82.5°	122.2	166.8	229.5	285.8	302.8
85°	58.4	102.0	161.5	197.6	211.4
87.5°	15.9	45.7	71.2	92.4	95.6
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	18.54	20.21	18.91	20.53	20.84	18.97	20.64	19.34	20.96	21.27
	3H	20.35	21.86	20.73	22.19	22.55	21.06	22.57	21.43	22.90	23.26
	4H	20.99	22.42	21.38	22.76	23.14	21.94	23.37	22.34	23.72	24.09
	6H	21.40	22.73	21.81	23.09	23.48	22.72	24.05	23.13	24.41	24.80
	8H	21.50	22.77	21.92	23.16	23.56	23.06	24.33	23.49	24.72	25.12
	12H	21.54	22.76	21.97	23.14	23.57	23.35	24.57	23.78	24.95	25.38
4H	2H	19.27	20.70	19.67	21.05	21.42	19.61	21.04	20.00	21.38	21.76
	3H	21.30	22.50	21.71	22.90	23.30	21.92	23.13	22.33	23.52	23.92
	4H	22.08	23.17	22.51	23.58	24.02	22.96	24.05	23.39	24.47	24.90
	6H	22.61	23.57	23.07	24.01	24.47	23.91	24.87	24.36	25.31	25.76
	8H	22.75	23.65	23.21	24.09	24.56	24.33	25.23	24.79	25.67	26.14
	12H	22.83	23.64	23.31	24.11	24.58	24.70	25.51	25.18	25.98	26.45
8H	4H	22.51	23.41	22.97	23.85	24.31	23.28	24.18	23.74	24.62	25.09
	6H	23.19	23.94	23.68	24.43	24.90	24.40	25.15	24.89	25.64	26.11
	8H	23.40	24.08	23.91	24.58	25.06	24.94	25.61	25.44	26.12	26.60
	12H	23.54	24.14	24.04	24.63	25.18	25.44	26.04	25.94	26.53	27.08
12H	4H	22.59	23.40	23.07	23.88	24.34	23.31	24.12	23.79	24.60	25.07
	6H	23.32	23.99	23.82	24.50	24.98	24.46	25.14	24.97	25.64	26.12
	8H	23.60	24.20	24.11	24.69	25.25	25.07	25.67	25.58	26.16	26.72