

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: P1584417

Luminaire Tested: 14CZSP-60VHE-L840

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584417
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-60VHE-L840
Description: 1x4 CZSP LED Luminaire, 4000K CCT and 6200 lumens, 80CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

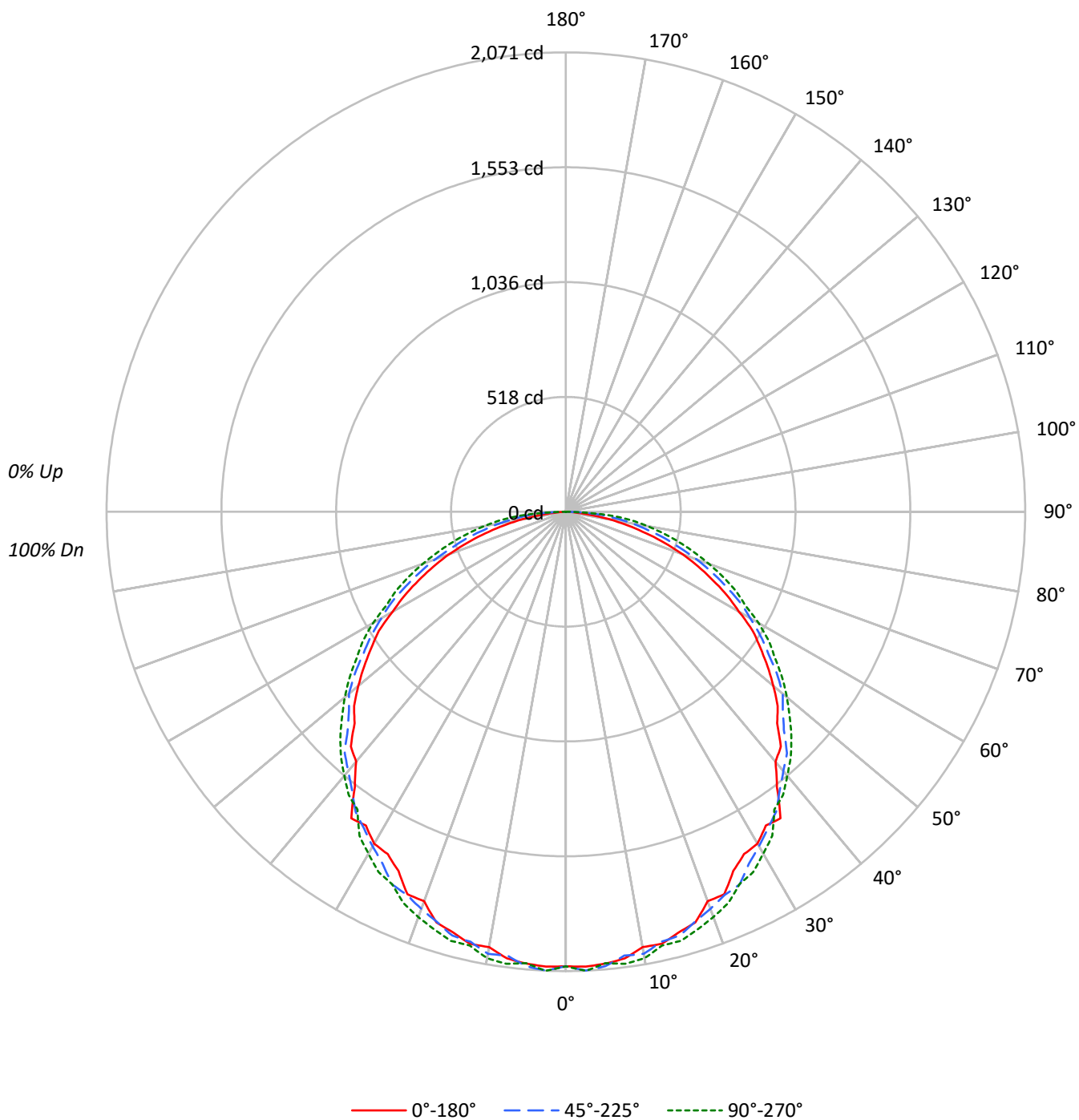
Lumens per Lamp: N/A
Luminaire Lumens: 6142.0 lumens
Efficiency: N/A
Efficacy: 139.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	103	99	95	105	101	97	93	97	93	90		93	90	87		89
2	98	89	82	76	95	88	81	75	84	78	74		81	76	72		78
3	89	78	70	63	87	77	69	63	74	67	61		71	65	60		68
4	82	69	60	53	79	68	59	53	65	58	52		63	57	51		61
5	75	62	52	46	73	61	52	45	58	51	45		56	50	44		55
6	69	55	46	40	67	54	46	40	53	45	39		51	44	39		49
7	64	50	41	35	62	49	41	35	48	40	35		46	39	34		45
8	60	46	37	31	58	45	37	31	44	36	31		42	36	31		41
9	56	42	34	28	54	41	33	28	40	33	28		39	32	28		38
10	52	39	31	25	51	38	30	25	37	30	25		36	30	25		35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6905	6905	6905
5°	6917	6956	6909
10°	6820	6924	6993
15°	6850	6901	6986
20°	6700	6833	6973
25°	6641	6892	6888
30°	6724	6777	6925
35°	6939	6796	6740
40°	6469	6710	6831
45°	6419	6625	6852
50°	6403	6691	6818
55°	6289	6543	6766
60°	6076	6467	6766
65°	5841	6355	6751
70°	5523	6178	6760
75°	4880	6033	6886
80°	4015	5880	7292
85°	2246	6205	8123

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 85°

Luminance: 8123 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.2	3.2
10°-20°	557.4	9.1
20°-30°	847.2	13.8
30°-40°	1030.2	16.8
40°-50°	1081.4	17.6
50°-60°	1000.2	16.3
60°-70°	787.9	12.8
70°-80°	484.3	7.9
80°-90°	159.1	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°	1598.8	26.0
0°-40°	2629.1	42.8
0°-60°	4710.7	76.7
0°-90°	6142.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6142.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2049	2049	2049	2049	2049	
5°	2045	2009	2056	2038	2043	194
15°	1964	1958	1978	2005	2003	553
25°	1786	1819	1854	1848	1853	830
35°	1687	1627	1652	1678	1638	1022
45°	1347	1376	1390	1430	1438	1047
55°	1070	1104	1114	1142	1152	957
65°	733	761	797	832	847	726
75°	375	416	463	511	529	399
85°	58	101	160	196	210	81
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2049.1	2049.1	2049.1	2049.1	2049.1
2.5°	2052.2	2055.4	2070.2	2037.5	2071.2
5°	2044.9	2009.0	2056.5	2038.5	2042.7
7.5°	2031.1	2035.4	2018.5	2029.0	2055.4
10°	1993.1	2019.5	2023.7	2028.0	2043.8
12.5°	1995.2	1978.3	1985.7	2016.3	2002.6
15°	1963.6	1958.3	1978.3	2004.7	2002.6
17.5°	1941.4	1929.8	1937.2	1949.8	1974.1
20°	1868.6	1899.2	1905.5	1944.6	1944.6
22.5°	1866.4	1865.4	1869.6	1889.7	1910.8
25°	1786.2	1818.9	1853.8	1848.5	1852.7
27.5°	1739.8	1776.7	1788.3	1824.2	1830.5
30°	1728.1	1734.5	1741.9	1780.9	1779.9
32.5°	1677.5	1688.0	1693.3	1715.5	1732.4
35°	1687.0	1626.8	1652.1	1677.5	1638.4
37.5°	1563.5	1573.0	1583.5	1602.5	1608.9
40°	1470.6	1494.8	1525.5	1547.6	1552.9
42.5°	1434.7	1470.6	1475.8	1495.9	1501.2
45°	1347.0	1375.6	1390.3	1430.4	1437.8
47.5°	1295.3	1299.5	1325.9	1363.9	1369.2
50°	1221.4	1249.9	1276.3	1293.2	1300.6
52.5°	1146.5	1178.1	1199.3	1215.1	1229.9
55°	1070.5	1104.2	1113.7	1142.2	1151.7
57.5°	999.7	1010.3	1040.9	1068.3	1085.2
60°	901.6	937.4	959.6	1010.3	1004.0
62.5°	822.4	846.7	887.8	913.2	910.0
65°	732.6	761.1	797.0	831.9	846.7
67.5°	647.1	685.1	711.5	756.9	767.5
70°	560.6	578.5	627.1	671.4	686.2
72.5°	467.7	496.2	538.4	587.0	604.9
75°	374.8	415.9	463.4	510.9	528.9
77.5°	287.1	323.0	376.9	431.8	449.7
80°	206.9	239.6	303.0	353.7	375.8
82.5°	121.4	165.7	228.0	284.0	300.9
85°	58.1	101.3	160.5	196.4	210.1
87.5°	15.8	45.4	70.7	91.8	95.0
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	18.52	20.19	18.88	20.50	20.82	18.95	20.62	19.31	20.93	21.25
	3H	20.33	21.84	20.70	22.17	22.53	21.03	22.55	21.41	22.88	23.23
	4H	20.96	22.39	21.36	22.74	23.12	21.92	23.35	22.31	23.69	24.07
	6H	21.38	22.71	21.79	23.07	23.46	22.70	24.03	23.11	24.39	24.78
	8H	21.48	22.75	21.90	23.14	23.53	23.04	24.31	23.46	24.70	25.10
	12H	21.52	22.73	21.95	23.12	23.54	23.33	24.54	23.75	24.92	25.35
4H	2H	19.25	20.68	19.65	21.03	21.40	19.58	21.01	19.98	21.36	21.74
	3H	21.28	22.48	21.69	22.88	23.28	21.90	23.10	22.31	23.50	23.90
	4H	22.05	23.15	22.48	23.56	23.99	22.94	24.03	23.37	24.44	24.88
	6H	22.59	23.55	23.04	23.99	24.44	23.89	24.85	24.34	25.29	25.74
	8H	22.73	23.63	23.19	24.07	24.54	24.31	25.21	24.77	25.65	26.11
	12H	22.80	23.62	23.28	24.09	24.56	24.67	25.49	25.15	25.96	26.43
8H	4H	22.49	23.39	22.94	23.83	24.29	23.26	24.16	23.72	24.60	25.06
	6H	23.16	23.92	23.66	24.40	24.88	24.37	25.13	24.87	25.61	26.09
	8H	23.38	24.05	23.88	24.56	25.04	24.91	25.59	25.42	26.09	26.58
	12H	23.51	24.11	24.02	24.60	25.16	25.42	26.01	25.92	26.50	27.06
12H	4H	22.57	23.38	23.05	23.85	24.32	23.29	24.10	23.77	24.58	25.04
	6H	23.29	23.97	23.80	24.48	24.96	24.44	25.11	24.94	25.62	26.10
	8H	23.58	24.18	24.09	24.67	25.23	25.05	25.65	25.56	26.14	26.70