

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: P1584676

Luminaire Tested: 14CZSP-A-54HE-L840-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584676
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-A-54HE-L840-S
Description: 1x4 CZSP LED Luminaire, 4000K CCT and 5000 lumens, 80CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

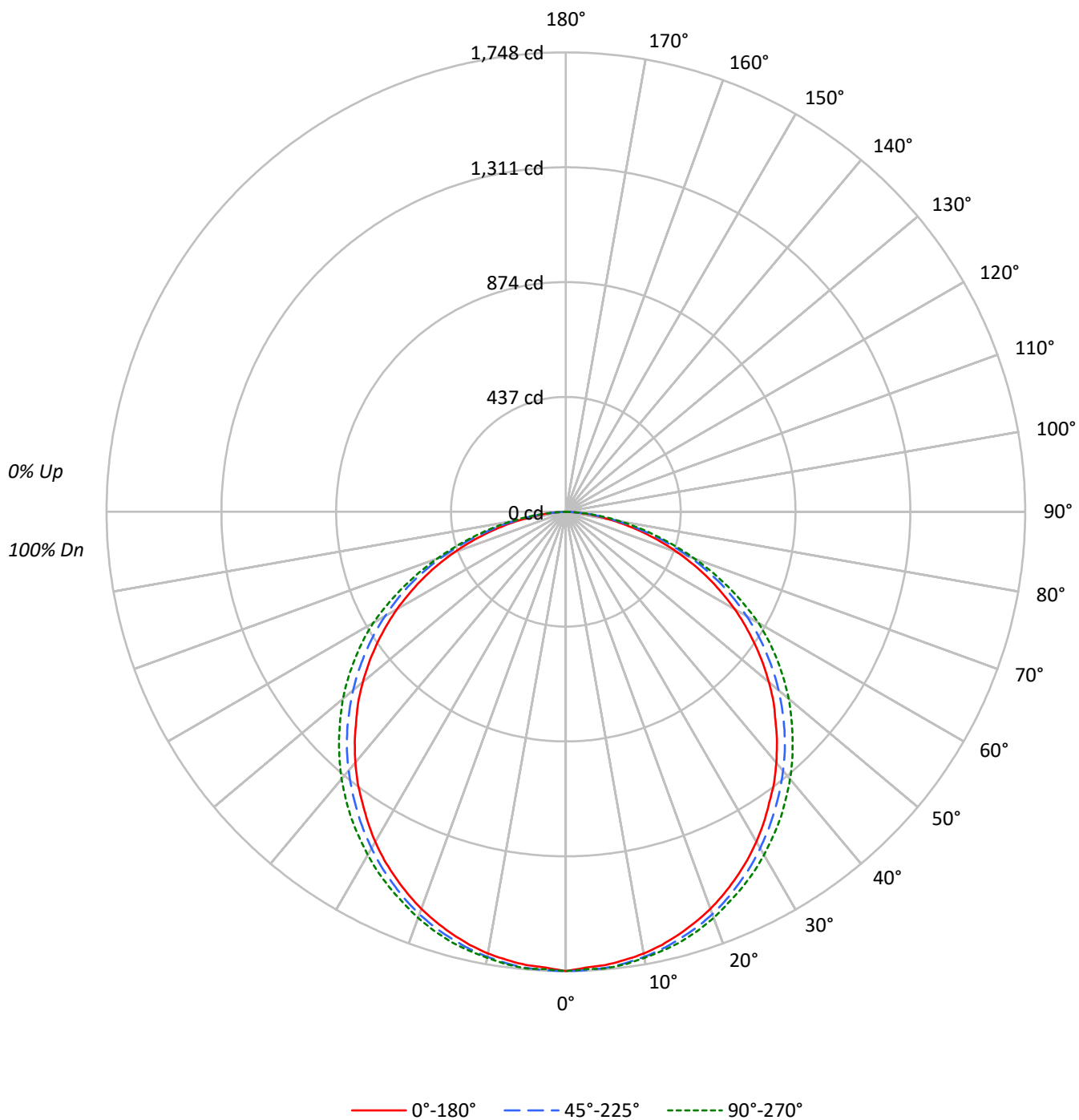
Lumens per Lamp: N/A
Luminaire Lumens: 5053.0 lumens
Efficiency: N/A
Efficacy: 135.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 37.3
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	109	104	100	96	106	102	98	94	97	94	91		93	91	88		90
2	99	90	83	78	96	88	82	77	85	80	75		82	77	73		79
3	90	79	71	64	87	78	70	64	75	68	63		72	66	62		69
4	82	70	61	54	80	69	60	54	66	59	53		64	58	52		62
5	76	63	53	47	73	61	53	46	59	52	46		57	51	45		55
6	70	56	47	41	68	55	47	41	53	46	40		52	45	40		50
7	65	51	42	36	63	50	42	36	49	41	35		47	40	35		46
8	60	46	38	32	59	46	38	32	44	37	32		43	36	31		42
9	56	43	34	29	55	42	34	29	41	34	28		40	33	28		39
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5889	5889	5889
5°	5857	5894	5899
10°	5840	5884	5896
15°	5807	5866	5908
20°	5766	5843	5897
25°	5707	5799	5879
30°	5643	5753	5866
35°	5553	5703	5856
40°	5480	5657	5840
45°	5377	5607	5816
50°	5287	5540	5806
55°	5160	5462	5768
60°	5002	5353	5709
65°	4780	5206	5474
70°	4455	4917	5137
75°	3980	4434	4687
80°	3262	3737	4098
85°	2184	2733	3047

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5816 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.5	3.3
10°-20°	474.6	9.4
20°-30°	718.6	14.2
30°-40°	867.8	17.2
40°-50°	906.9	17.9
50°-60°	831.0	16.4
60°-70°	641.5	12.7
70°-80°	360.8	7.1
80°-90°	86.3	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°	1358.7	26.9
0°-40°	2226.5	44.1
0°-60°	3964.4	78.5
0°-90°	5053.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5053.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1748	1748	1748	1748	1748	
5°	1732	1744	1743	1744	1744	164
15°	1664	1678	1682	1688	1694	470
25°	1535	1548	1560	1568	1581	707
35°	1350	1367	1386	1405	1424	846
45°	1128	1151	1177	1200	1220	872
55°	878	901	930	959	982	785
65°	600	626	653	679	686	592
75°	306	334	341	355	360	324
85°	56	65	71	77	79	73
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1747.8	1747.8	1747.8	1747.8	1747.8
2.5°	1735.9	1749.3	1746.3	1750.8	1742.6
5°	1731.5	1744.1	1742.6	1744.1	1744.1
7.5°	1720.3	1733.7	1733.0	1735.2	1736.7
10°	1706.9	1719.6	1719.6	1721.8	1723.3
12.5°	1688.3	1701.7	1703.2	1706.9	1709.9
15°	1664.5	1677.9	1681.6	1688.3	1693.5
17.5°	1637.8	1651.9	1657.8	1664.5	1671.2
20°	1608.0	1620.7	1629.6	1634.8	1644.5
22.5°	1573.1	1587.2	1596.9	1602.1	1612.5
25°	1535.1	1548.5	1559.7	1567.8	1581.2
27.5°	1495.0	1508.3	1521.7	1531.4	1547.0
30°	1450.3	1464.5	1478.6	1493.5	1507.6
32.5°	1402.0	1418.4	1434.0	1450.3	1466.0
35°	1349.9	1367.0	1386.4	1405.0	1423.6
37.5°	1301.6	1317.2	1337.3	1357.4	1376.0
40°	1245.8	1262.9	1286.0	1308.3	1327.6
42.5°	1189.3	1207.9	1233.2	1254.7	1275.5
45°	1128.3	1150.6	1176.6	1200.4	1220.5
47.5°	1071.8	1091.1	1117.1	1143.2	1164.0
50°	1008.5	1030.1	1056.9	1084.4	1107.5
52.5°	944.6	966.9	994.4	1021.9	1045.7
55°	878.4	901.4	929.7	958.7	981.8
57.5°	810.7	835.2	864.2	893.3	916.3
60°	742.3	766.8	794.3	826.3	847.1
62.5°	670.9	698.4	724.4	754.2	766.8
65°	599.5	625.5	653.0	679.1	686.5
67.5°	526.6	553.4	577.9	595.0	604.7
70°	452.2	481.2	499.1	515.4	521.4
72.5°	378.6	407.6	418.0	433.6	439.6
75°	305.7	333.9	340.6	354.8	360.0
77.5°	235.0	261.1	263.3	279.7	284.1
80°	168.1	188.9	192.6	208.3	211.2
82.5°	107.8	122.7	127.9	141.3	145.8
85°	56.5	64.7	70.7	77.4	78.8
87.5°	18.6	23.1	19.3	20.1	18.6
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	17.87	19.52	18.24	19.84	20.15	18.41	20.06	18.78	20.38	20.69
	3H	19.65	21.14	20.03	21.47	21.83	20.27	21.76	20.65	22.09	22.45
	4H	20.27	21.68	20.67	22.03	22.40	20.94	22.35	21.34	22.69	23.07
	6H	20.68	21.99	21.09	22.35	22.74	21.42	22.72	21.83	23.08	23.47
	8H	20.79	22.03	21.21	22.42	22.82	21.56	22.81	21.99	23.20	23.59
	12H	20.84	22.03	21.27	22.41	22.84	21.64	22.84	22.07	23.22	23.65
4H	2H	18.60	20.00	18.99	20.35	20.73	19.02	20.43	19.42	20.77	21.15
	3H	20.59	21.77	21.00	22.17	22.57	21.09	22.27	21.50	22.67	23.07
	4H	21.35	22.42	21.78	22.83	23.27	21.89	22.96	22.32	23.37	23.80
	6H	21.88	22.81	22.33	23.25	23.71	22.49	23.42	22.94	23.86	24.32
	8H	22.02	22.89	22.48	23.33	23.80	22.68	23.56	23.14	24.00	24.46
	12H	22.09	22.88	22.57	23.36	23.82	22.80	23.59	23.28	24.06	24.53
8H	4H	21.69	22.56	22.15	23.00	23.47	22.16	23.04	22.62	23.48	23.94
	6H	22.33	23.05	22.82	23.54	24.01	22.88	23.60	23.37	24.09	24.56
	8H	22.53	23.18	23.03	23.68	24.17	23.13	23.78	23.64	24.29	24.78
	12H	22.66	23.23	23.16	23.72	24.28	23.32	23.89	23.82	24.38	24.94
12H	4H	21.72	22.51	22.20	22.98	23.45	22.19	22.97	22.67	23.45	23.92
	6H	22.38	23.03	22.89	23.54	24.02	22.91	23.57	23.42	24.07	24.56
	8H	22.63	23.21	23.14	23.70	24.26	23.22	23.80	23.73	24.29	24.85