

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: P1584701

Luminaire Tested: 14CZSP-A-54VHE-L850

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584701
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-54VHE-L850
Description: 1x4 CZSP LED Luminaire, 5000K CCT and 5200 lumens, 80CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

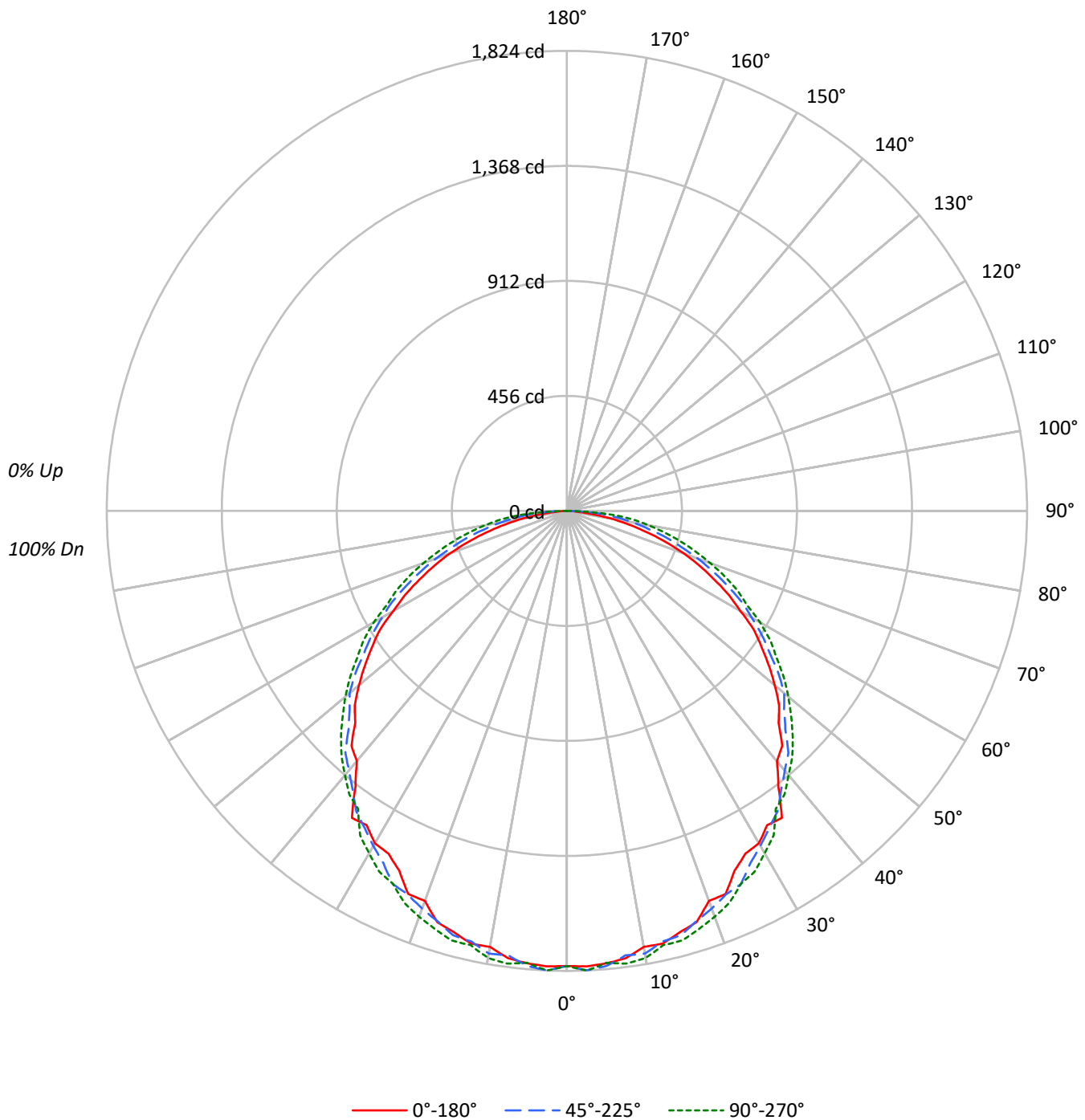
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5409.0 lumens
Efficiency: N/A
Efficacy: 144.2 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): 37.5
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	50	30	10
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°	6080	6080	6080
5°	6091	6126	6085
10°	6006	6098	6158
15°	6032	6078	6152
20°	5901	6017	6141
25°	5848	6070	6066
30°	5921	5969	6099
35°	6111	5985	5935
40°	5697	5909	6016
45°	5653	5835	6034
50°	5639	5892	6004
55°	5538	5762	5959
60°	5351	5695	5958
65°	5144	5596	5945
70°	4864	5440	5954
75°	4296	5313	6064
80°	3536	5177	6423
85°	1976	5463	7152

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 85°

Luminance: 7152 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.0	3.2
10°-20°	490.9	9.1
20°-30°	746.1	13.8
30°-40°	907.3	16.8
40°-50°	952.4	17.6
50°-60°	880.8	16.3
60°-70°	693.9	12.8
70°-80°	426.5	7.9
80°-90°	140.1	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°	1408.0	26.0
0°-40°	2315.3	42.8
0°-60°	4148.5	76.7
0°-90°	5409.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5409.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1804	1804	1804	1804	1804	
5°	1801	1769	1811	1795	1799	171
15°	1729	1725	1742	1766	1764	487
25°	1573	1602	1632	1628	1632	731
35°	1486	1433	1455	1477	1443	900
45°	1186	1211	1224	1260	1266	922
55°	943	972	981	1006	1014	843
65°	645	670	702	733	746	639
75°	330	366	408	450	466	351
85°	51	89	141	173	185	71
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1804.5	1804.5	1804.5	1804.5	1804.5
2.5°	1807.3	1810.1	1823.1	1794.3	1824.1
5°	1800.8	1769.2	1811.0	1795.2	1799.0
7.5°	1788.7	1792.4	1777.6	1786.9	1810.1
10°	1755.3	1778.5	1782.2	1785.9	1799.9
12.5°	1757.1	1742.2	1748.8	1775.7	1763.6
15°	1729.2	1724.6	1742.2	1765.5	1763.6
17.5°	1709.7	1699.5	1706.0	1717.1	1738.5
20°	1645.6	1672.5	1678.1	1712.5	1712.5
22.5°	1643.7	1642.8	1646.5	1664.2	1682.7
25°	1573.0	1601.9	1632.5	1627.9	1631.6
27.5°	1532.1	1564.7	1574.9	1606.5	1612.1
30°	1521.9	1527.5	1534.0	1568.4	1567.5
32.5°	1477.3	1486.6	1491.2	1510.8	1525.6
35°	1485.6	1432.7	1455.0	1477.3	1442.9
37.5°	1376.9	1385.2	1394.5	1411.3	1416.9
40°	1295.1	1316.4	1343.4	1362.9	1367.6
42.5°	1263.5	1295.1	1299.7	1317.4	1322.0
45°	1186.3	1211.4	1224.4	1259.7	1266.2
47.5°	1140.7	1144.5	1167.7	1201.2	1205.8
50°	1075.7	1100.8	1124.0	1138.9	1145.4
52.5°	1009.6	1037.5	1056.1	1070.1	1083.1
55°	942.7	972.5	980.8	1005.9	1014.3
57.5°	880.4	889.7	916.7	940.8	955.7
60°	794.0	825.6	845.1	889.7	884.1
62.5°	724.2	745.6	781.9	804.2	801.4
65°	645.2	670.3	701.9	732.6	745.6
67.5°	569.9	603.4	626.6	666.6	675.9
70°	493.7	509.5	552.2	591.3	604.3
72.5°	411.9	437.0	474.1	516.9	532.7
75°	330.0	366.3	408.1	450.0	465.8
77.5°	252.9	284.5	331.9	380.2	396.0
80°	182.2	211.0	266.8	311.4	331.0
82.5°	106.9	146.0	200.8	250.1	265.0
85°	51.1	89.3	141.3	172.9	185.0
87.5°	13.9	40.0	62.3	80.9	83.7
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	18.08	19.75	18.44	20.06	20.37	18.51	20.18	18.87	20.49	20.81
	3H	19.88	21.40	20.26	21.73	22.09	20.59	22.11	20.97	22.43	22.79
	4H	20.52	21.95	20.92	22.30	22.67	21.47	22.90	21.87	23.25	23.63
	6H	20.94	22.27	21.35	22.63	23.02	22.26	23.59	22.67	23.95	24.34
	8H	21.03	22.31	21.46	22.69	23.09	22.60	23.87	23.02	24.26	24.65
	12H	21.07	22.29	21.50	22.67	23.10	22.88	24.10	23.31	24.48	24.91
4H	2H	18.81	20.24	19.21	20.58	20.96	19.14	20.57	19.54	20.92	21.29
	3H	20.84	22.04	21.24	22.44	22.84	21.46	22.66	21.87	23.06	23.46
	4H	21.61	22.71	22.04	23.12	23.55	22.50	23.59	22.93	24.00	24.44
	6H	22.15	23.11	22.60	23.55	24.00	23.45	24.41	23.90	24.85	25.30
	8H	22.29	23.19	22.75	23.63	24.09	23.87	24.77	24.33	25.21	25.67
	12H	22.36	23.17	22.84	23.65	24.12	24.23	25.04	24.71	25.52	25.99
8H	4H	22.04	22.94	22.50	23.39	23.85	22.82	23.72	23.28	24.16	24.62
	6H	22.72	23.48	23.22	23.96	24.43	23.93	24.68	24.42	25.17	25.64
	8H	22.94	23.61	23.44	24.12	24.60	24.47	25.15	24.98	25.65	26.14
	12H	23.07	23.67	23.58	24.16	24.72	24.97	25.57	25.48	26.06	26.62
12H	4H	22.13	22.94	22.61	23.41	23.88	22.85	23.66	23.33	24.13	24.60
	6H	22.85	23.53	23.36	24.03	24.52	23.99	24.67	24.50	25.18	25.66
	8H	23.14	23.74	23.65	24.23	24.79	24.61	25.21	25.11	25.70	26.25