

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: P895019

Luminaire Tested: 8TMB-4SL-LVRA-UNV-L940

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895019
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-26)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-4SL-LVRA-UNV-L940
Description: 4000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 90CRI, 4000K CCT
Light Source: -
Ballast/Driver: -

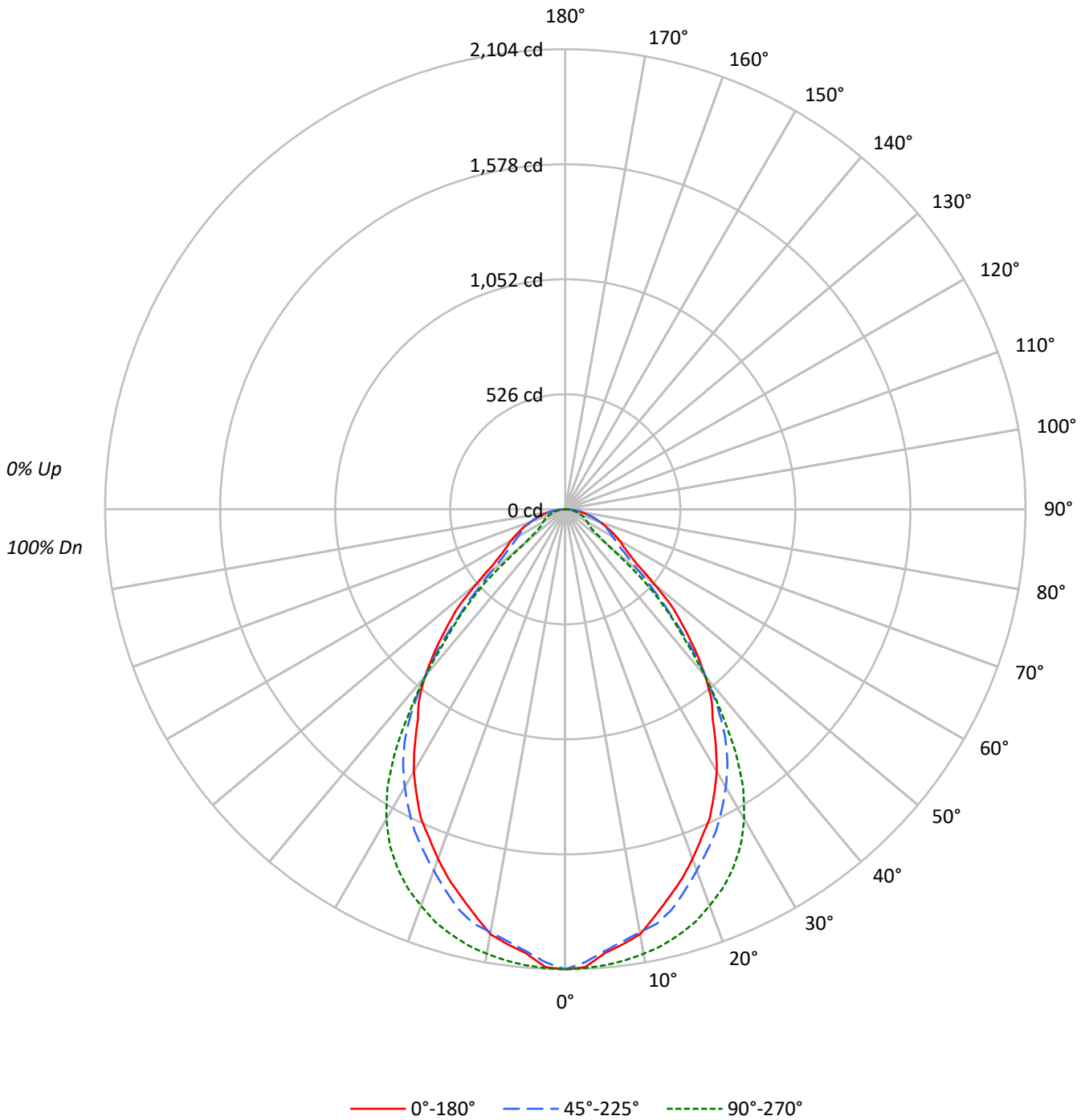
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3414.0 lumens
Efficiency: N/A
Efficacy: 123.7 lumens/watt
Spacing Criteria (0/90/45): 1.02 / 1.16 / 1.12
Luminous Opening: Rectangular (W 0.38' x L: 7.98' x H: 0')
CIE Type: Direct

Input Watts (W): 27.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 4.5
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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88	88	88	88
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78	78	78	78
3	96	87	80	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69	69	69	69
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	62	62	62	62
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	55	55	55	55
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	50	50	50	50
7	73	61	54	48	71	60	53	48	59	52	48	58	52	47	56	51	47	45	45	45	45
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	41	41	41	41
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	38	38	38	38
10	61	49	42	37	60	48	42	37	47	41	37	47	41	37	46	40	37	35	35	35	35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7464	7464	7464
5°	7262	7230	7456
10°	7108	7077	7438
15°	6741	6948	7397
20°	6422	6639	7284
25°	6108	6370	7098
30°	5675	6013	6702
35°	5089	5526	5878
40°	4610	4621	4595
45°	3855	3414	3330
50°	2912	2403	1362
55°	2190	1922	859
60°	2035	1770	827
65°	1893	1766	829
70°	1732	1732	815
75°	1642	1688	788
80°	1518	1596	809
85°	1323	1392	883

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 3945 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.3	5.7
10°-20°	535.4	15.7
20°-30°	759.2	22.2
30°-40°	782.2	22.9
40°-50°	546.3	16.0
50°-60°	262.2	7.7
60°-70°	183.9	5.4
70°-80°	115.0	3.4
80°-90°	35.6	1.0
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°	1488.9	43.6
0°-40°	2271.1	66.5
0°-60°	3079.5	90.2
0°-90°	3414.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3414.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2104	2104	2104	2104	2104	
5°	2039	2036	2030	2083	2093	193
15°	1835	1849	1892	1946	2014	517
25°	1560	1576	1627	1737	1813	713
35°	1175	1207	1276	1302	1357	740
45°	768	786	680	646	664	592
55°	354	337	311	199	139	332
65°	226	211	210	160	99	223
75°	120	118	123	106	58	126
85°	32	32	34	34	22	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2103.6	2103.6	2103.6	2103.6	2103.6
2.5°	2095.4	2088.9	2073.2	2101.9	2099.8
5°	2039.0	2036.3	2029.8	2083.0	2093.3
7.5°	2007.1	2001.6	1994.0	2052.6	2081.3
10°	1972.9	1979.4	1964.2	2017.9	2064.5
12.5°	1902.4	1919.8	1940.4	1982.1	2043.9
15°	1835.2	1848.7	1891.6	1945.8	2013.6
17.5°	1772.3	1788.0	1824.9	1906.2	1978.3
20°	1700.7	1722.4	1758.2	1862.3	1929.0
22.5°	1627.0	1647.1	1692.1	1803.7	1878.0
25°	1560.3	1576.0	1627.0	1737.1	1813.0
27.5°	1472.0	1501.2	1549.5	1655.7	1735.4
30°	1385.2	1410.1	1467.6	1557.1	1635.7
32.5°	1280.6	1316.9	1380.3	1448.6	1514.2
35°	1174.9	1206.8	1275.7	1302.3	1357.0
37.5°	1097.9	1106.5	1145.6	1142.3	1173.2
40°	995.4	1012.7	997.6	956.9	992.1
42.5°	884.8	905.4	844.1	797.0	809.4
45°	768.2	786.1	680.4	645.7	663.6
47.5°	667.4	665.8	548.7	525.3	500.4
50°	527.5	544.9	435.4	392.0	246.7
52.5°	412.0	418.5	358.9	250.5	162.1
55°	354.0	336.7	310.7	199.0	138.8
57.5°	314.4	292.8	275.4	184.9	126.9
60°	286.8	262.4	249.4	175.7	116.6
62.5°	255.4	236.4	231.5	167.5	107.3
65°	225.5	210.9	210.4	159.9	98.7
67.5°	195.7	187.6	189.8	150.7	88.9
70°	167.0	165.4	167.0	138.8	78.6
72.5°	142.6	141.0	145.3	123.6	67.2
75°	119.8	118.2	123.1	106.3	57.5
77.5°	95.4	96.5	99.8	88.4	48.3
80°	74.3	74.3	78.1	69.4	39.6
82.5°	53.1	53.7	55.8	51.0	30.9
85°	32.5	32.5	34.2	33.6	21.7
87.5°	10.8	12.5	14.6	15.7	10.8
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	12.63	13.98	13.00	14.30	14.61	8.96	10.32	9.33	10.63	10.94
	3H	14.37	15.58	14.75	15.91	16.27	10.94	12.15	11.32	12.48	12.84
	4H	15.04	16.17	15.44	16.52	16.90	11.64	12.77	12.05	13.12	13.50
	6H	15.55	16.59	15.96	16.96	17.35	12.17	13.21	12.58	13.58	13.97
	8H	15.72	16.70	16.15	17.09	17.50	12.35	13.34	12.78	13.73	14.13
	12H	15.83	16.77	16.26	17.15	17.58	12.49	13.43	12.92	13.82	14.25
4H	2H	13.16	14.29	13.56	14.64	15.02	10.59	11.71	10.99	12.06	12.45
	3H	15.14	16.07	15.55	16.47	16.87	12.76	13.69	13.18	14.10	14.50
	4H	15.94	16.78	16.38	17.19	17.64	13.64	14.48	14.08	14.90	15.34
	6H	16.58	17.31	17.05	17.75	18.22	14.29	15.01	14.75	15.46	15.92
	8H	16.80	17.48	17.27	17.93	18.40	14.50	15.17	14.96	15.62	16.09
	12H	16.96	17.56	17.44	18.04	18.51	14.65	15.25	15.14	15.74	16.21
8H	4H	16.22	16.90	16.69	17.35	17.82	14.29	14.97	14.76	15.42	15.89
	6H	17.01	17.56	17.51	18.06	18.54	15.15	15.71	15.65	16.20	16.68
	8H	17.31	17.81	17.83	18.32	18.81	15.48	15.98	16.00	16.49	16.99
	12H	17.54	17.99	18.06	18.48	19.05	15.75	16.19	16.26	16.68	17.25
12H	4H	16.24	16.84	16.73	17.32	17.80	14.37	14.97	14.85	15.45	15.92
	6H	17.06	17.56	17.58	18.07	18.56	15.29	15.79	15.81	16.30	16.80
	8H	17.42	17.87	17.94	18.36	18.93	15.70	16.15	16.22	16.64	17.21