

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: P895015

Luminaire Tested: 8TMB-4SL-LVRA-UNV-L840

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895015
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-L840
Description: 4000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 80CRI, 4000K CCT
Light Source: -
Ballast/Driver: -

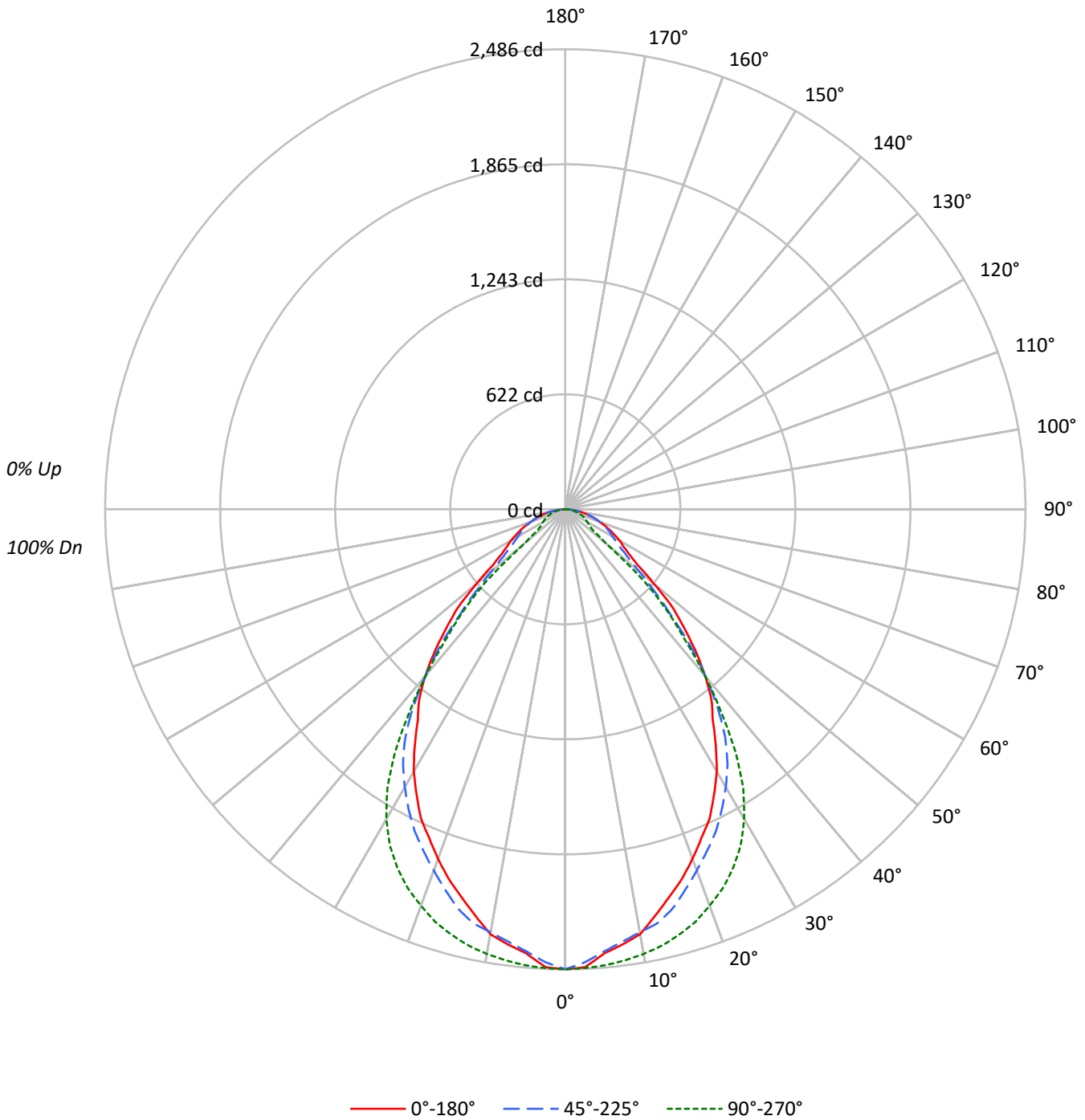
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4034.0 lumens
Efficiency: N/A
Efficacy: 146.2 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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78
3	96	87	80	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	62
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	55
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	50
7	73	61	54	48	71	60	53	48	59	52	48	58	52	47	56	51	47	45
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	41
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	38
10	61	49	42	37	60	48	42	37	47	41	37	47	41	37	46	40	37	35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8819	8819	8819
5°	8581	8543	8809
10°	8399	8362	8789
15°	7966	8210	8740
20°	7588	7844	8606
25°	7218	7526	8387
30°	6706	7105	7918
35°	6013	6529	6946
40°	5448	5459	5430
45°	4555	4034	3934
50°	3441	2839	1609
55°	2588	2271	1015
60°	2405	2091	977
65°	2237	2087	979
70°	2047	2047	964
75°	1941	1993	931
80°	1794	1884	956
85°	1563	1645	1042

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 4661 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.6	5.7
10°-20°	632.6	15.7
20°-30°	897.1	22.2
30°-40°	924.2	22.9
40°-50°	645.5	16.0
50°-60°	309.7	7.7
60°-70°	217.3	5.4
70°-80°	135.9	3.4
80°-90°	42.0	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°	1759.3	43.6
0°-40°	2683.5	66.5
0°-60°	3638.8	90.2
0°-90°	4034.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4034.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2486	2486	2486	2486	2486	
5°	2409	2406	2398	2461	2473	228
15°	2168	2184	2235	2299	2379	611
25°	1844	1862	1922	2052	2142	843
35°	1388	1426	1507	1539	1604	875
45°	908	929	804	763	784	699
55°	418	398	367	235	164	392
65°	266	249	249	189	117	264
75°	142	140	145	126	68	149
85°	38	38	40	40	26	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2485.6	2485.6	2485.6	2485.6	2485.6
2.5°	2476.0	2468.3	2449.7	2483.7	2481.1
5°	2409.3	2406.1	2398.5	2461.2	2473.4
7.5°	2371.6	2365.1	2356.2	2425.4	2459.3
10°	2331.2	2338.9	2320.9	2384.4	2439.5
12.5°	2247.9	2268.4	2292.8	2342.1	2415.1
15°	2168.5	2184.5	2235.1	2299.2	2379.2
17.5°	2094.2	2112.7	2156.3	2252.4	2337.6
20°	2009.6	2035.2	2077.5	2200.5	2279.3
22.5°	1922.5	1946.2	1999.4	2131.3	2219.1
25°	1843.7	1862.3	1922.5	2052.5	2142.2
27.5°	1739.3	1773.9	1830.9	1956.4	2050.6
30°	1636.8	1666.2	1734.1	1839.8	1932.7
32.5°	1513.1	1556.0	1631.0	1711.7	1789.2
35°	1388.2	1426.0	1507.4	1538.8	1603.5
37.5°	1297.2	1307.5	1353.6	1349.8	1386.3
40°	1176.2	1196.7	1178.7	1130.7	1172.3
42.5°	1045.5	1069.8	997.4	941.7	956.4
45°	907.7	928.9	804.0	763.0	784.1
47.5°	788.6	786.7	648.3	620.8	591.3
50°	623.3	643.8	514.4	463.2	291.5
52.5°	486.9	494.6	424.1	296.0	191.5
55°	418.3	397.8	367.1	235.1	164.0
57.5°	371.6	345.9	325.4	218.4	149.9
60°	338.9	310.1	294.7	207.6	137.7
62.5°	301.7	279.3	273.5	197.9	126.8
65°	266.5	249.2	248.6	189.0	116.6
67.5°	231.3	221.7	224.2	178.1	105.1
70°	197.3	195.4	197.3	164.0	92.9
72.5°	168.5	166.6	171.7	146.1	79.4
75°	141.6	139.7	145.4	125.6	67.9
77.5°	112.7	114.0	117.9	104.4	57.0
80°	87.8	87.8	92.2	82.0	46.8
82.5°	62.8	63.4	66.0	60.2	36.5
85°	38.4	38.4	40.4	39.7	25.6
87.5°	12.8	14.7	17.3	18.6	12.8
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	13.21	14.56	13.58	14.88	15.19	9.54	10.89	9.91	11.21	11.52
	3H	14.95	16.16	15.33	16.49	16.85	11.52	12.72	11.90	13.05	13.42
	4H	15.62	16.75	16.02	17.10	17.48	12.22	13.35	12.62	13.70	14.08
	6H	16.13	17.17	16.54	17.54	17.93	12.75	13.78	13.16	14.15	14.55
	8H	16.30	17.28	16.73	17.67	18.08	12.93	13.92	13.36	14.31	14.71
	12H	16.41	17.35	16.84	17.73	18.16	13.07	14.01	13.50	14.40	14.83
4H	2H	13.74	14.87	14.14	15.22	15.60	11.16	12.29	11.57	12.64	13.02
	3H	15.72	16.65	16.13	17.05	17.45	13.34	14.27	13.76	14.68	15.08
	4H	16.52	17.36	16.96	17.77	18.22	14.22	15.06	14.66	15.48	15.92
	6H	17.16	17.89	17.63	18.33	18.80	14.87	15.59	15.33	16.04	16.50
	8H	17.38	18.06	17.85	18.51	18.98	15.07	15.75	15.54	16.20	16.67
	12H	17.54	18.14	18.02	18.62	19.09	15.23	15.83	15.72	16.31	16.79
8H	4H	16.80	17.48	17.27	17.93	18.40	14.87	15.55	15.34	15.99	16.46
	6H	17.59	18.14	18.09	18.64	19.12	15.73	16.29	16.23	16.78	17.26
	8H	17.89	18.39	18.41	18.90	19.39	16.06	16.56	16.58	17.07	17.56
	12H	18.12	18.56	18.64	19.06	19.63	16.32	16.76	16.84	17.26	17.83
12H	4H	16.82	17.42	17.31	17.90	18.38	14.94	15.54	15.43	16.03	16.50
	6H	17.64	18.14	18.16	18.65	19.14	15.87	16.37	16.39	16.88	17.37
	8H	18.00	18.44	18.52	18.94	19.51	16.28	16.72	16.80	17.22	17.79