

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: P894613

Luminaire Tested: 8TMB-14HL-LVRA-UNV-L830

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894613
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-14HL-LVRA-UNV-L830
Description: 14000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 80CRI, 3000K CCT
Light Source: -
Ballast/Driver: -

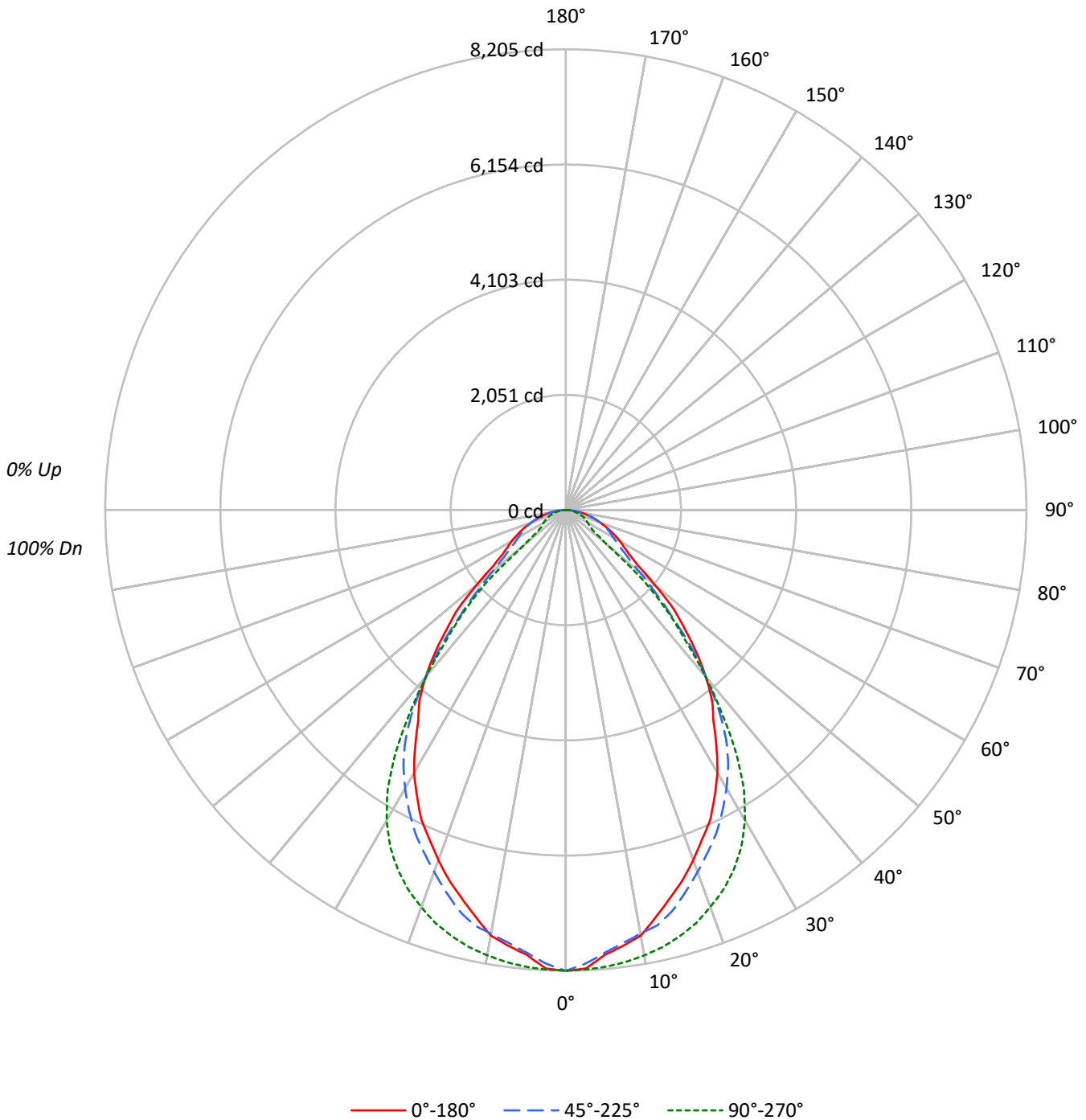
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13317.0 lumens
Efficiency: N/A
Efficacy: 128.5 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): 103.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 5.03
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	102	102	102	100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	90	90	90	88
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	80	80	80	78
3	96	87	80	75	94	86	80	75	83	78	73	80	76	72	78	74	71	71	71	71	69
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	63	63	63	62
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	57	57	57	55
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	52	52	52	50
7	73	61	54	48	71	60	53	48	59	52	48	58	52	47	56	51	47	47	47	47	45
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	43	43	43	41
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	40	40	40	38
10	61	49	42	37	60	48	42	37	47	41	37	47	41	37	46	40	37	37	37	37	35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	29114	29114	29114
5°	28329	28201	29082
10°	27727	27605	29014
15°	26296	27103	28851
20°	25049	25896	28411
25°	23828	24846	27686
30°	22138	23454	26140
35°	19850	21554	22928
40°	17984	18023	17925
45°	15037	13318	12989
50°	11358	9374	5311
55°	8543	7496	3349
60°	7939	6903	3227
65°	7386	6889	3231
70°	6758	6758	3181
75°	6408	6582	3074
80°	5919	6222	3155
85°	5166	5423	3444

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 15387 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	758.0	5.7
10°-20°	2088.5	15.7
20°-30°	2961.5	22.2
30°-40°	3051.0	22.9
40°-50°	2131.0	16.0
50°-60°	1022.5	7.7
60°-70°	717.4	5.4
70°-80°	448.5	3.4
80°-90°	138.7	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°	5807.9	43.6
0°-40°	8858.8	66.5
0°-60°	12012.4	90.2
0°-90°	13317.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13317.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8205	8205	8205	8205	8205	
5°	7954	7943	7918	8125	8165	753
15°	7159	7211	7378	7590	7854	2016
25°	6086	6148	6346	6776	7072	2783
35°	4583	4708	4976	5080	5293	2888
45°	2997	3066	2654	2519	2588	2309
55°	1381	1313	1212	776	541	1294
65°	880	823	820	624	385	872
75°	467	461	480	414	224	492
85°	127	127	133	131	85	142
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8205.4	8205.4	8205.4	8205.4	8205.4
2.5°	8173.6	8148.3	8086.9	8199.0	8190.6
5°	7953.7	7943.1	7917.8	8125.0	8165.2
7.5°	7828.9	7807.8	7778.2	8006.6	8118.7
10°	7695.7	7721.1	7661.9	7871.2	8053.1
12.5°	7420.8	7488.5	7568.8	7731.7	7972.7
15°	7158.6	7211.4	7378.5	7590.0	7854.3
17.5°	6913.2	6974.6	7118.4	7435.6	7716.9
20°	6634.1	6718.7	6858.3	7264.3	7524.4
22.5°	6346.5	6424.7	6600.2	7035.9	7325.6
25°	6086.4	6147.7	6346.5	6775.8	7071.8
27.5°	5741.6	5855.8	6044.1	6458.6	6769.4
30°	5403.3	5500.6	5724.7	6073.7	6380.3
32.5°	4995.1	5136.8	5384.2	5650.7	5906.6
35°	4582.7	4707.5	4976.1	5079.7	5293.3
37.5°	4282.4	4316.3	4468.5	4455.9	4576.4
40°	3882.7	3950.4	3891.2	3732.6	3870.1
42.5°	3451.3	3531.7	3292.7	3108.7	3157.4
45°	2996.7	3066.4	2654.1	2518.7	2588.5
47.5°	2603.3	2597.0	2140.2	2049.2	1951.9
50°	2057.7	2125.4	1698.2	1529.0	962.2
52.5°	1607.2	1632.6	1400.0	977.0	632.3
55°	1381.0	1313.3	1211.8	776.1	541.4
57.5°	1226.6	1142.0	1074.3	721.1	494.9
60°	1118.7	1023.6	972.8	685.2	454.7
62.5°	996.1	922.0	903.0	653.5	418.7
65°	879.8	822.7	820.5	623.9	384.9
67.5°	763.4	731.7	740.2	587.9	346.8
70°	651.4	645.0	651.4	541.4	306.6
72.5°	556.2	549.8	566.8	482.2	262.2
75°	467.4	461.0	480.1	414.5	224.2
77.5°	372.2	376.4	389.1	344.7	188.2
80°	289.7	289.7	304.5	270.7	154.4
82.5°	207.2	209.4	217.8	198.8	120.5
85°	126.9	126.9	133.2	131.1	84.6
87.5°	42.3	48.6	57.1	61.3	42.3
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	17.36	18.71	17.72	19.03	19.34	13.69	15.04	14.06	15.36	15.67
	3H	19.10	20.31	19.48	20.63	21.00	15.67	16.87	16.05	17.20	17.57
	4H	19.77	20.90	20.17	21.25	21.63	16.37	17.50	16.77	17.85	18.23
	6H	20.28	21.31	20.69	21.68	22.08	16.90	17.93	17.31	18.30	18.70
	8H	20.45	21.43	20.88	21.82	22.23	17.08	18.07	17.51	18.46	18.86
	12H	20.56	21.50	20.99	21.88	22.31	17.22	18.16	17.65	18.54	18.97
4H	2H	17.89	19.02	18.29	19.37	19.75	15.31	16.44	15.72	16.79	17.17
	3H	19.87	20.80	20.28	21.20	21.60	17.49	18.42	17.90	18.83	19.23
	4H	20.67	21.50	21.10	21.92	22.37	18.37	19.21	18.81	19.63	20.07
	6H	21.31	22.04	21.77	22.48	22.95	19.01	19.74	19.48	20.18	20.65
	8H	21.53	22.21	22.00	22.66	23.13	19.22	19.90	19.69	20.35	20.82
	12H	21.69	22.29	22.17	22.77	23.24	19.38	19.98	19.87	20.46	20.94
8H	4H	20.95	21.63	21.42	22.08	22.55	19.02	19.70	19.49	20.14	20.61
	6H	21.74	22.29	22.24	22.79	23.27	19.88	20.44	20.38	20.93	21.41
	8H	22.04	22.54	22.56	23.05	23.54	20.21	20.71	20.73	21.22	21.71
	12H	22.27	22.71	22.79	23.21	23.78	20.47	20.91	20.99	21.41	21.98
12H	4H	20.97	21.57	21.46	22.05	22.53	19.09	19.69	19.58	20.17	20.65
	6H	21.79	22.29	22.31	22.80	23.29	20.02	20.52	20.54	21.03	21.52
	8H	22.15	22.59	22.67	23.09	23.66	20.43	20.87	20.95	21.37	21.94