

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: P894897

Luminaire Tested: 8TMB-20HL-LVR-UNV-L930

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894897
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-6)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-20HL-LVR-UNV-L930
Description: 20000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER, 90CRI, 3000K CCT
Light Source: -
Ballast/Driver: -

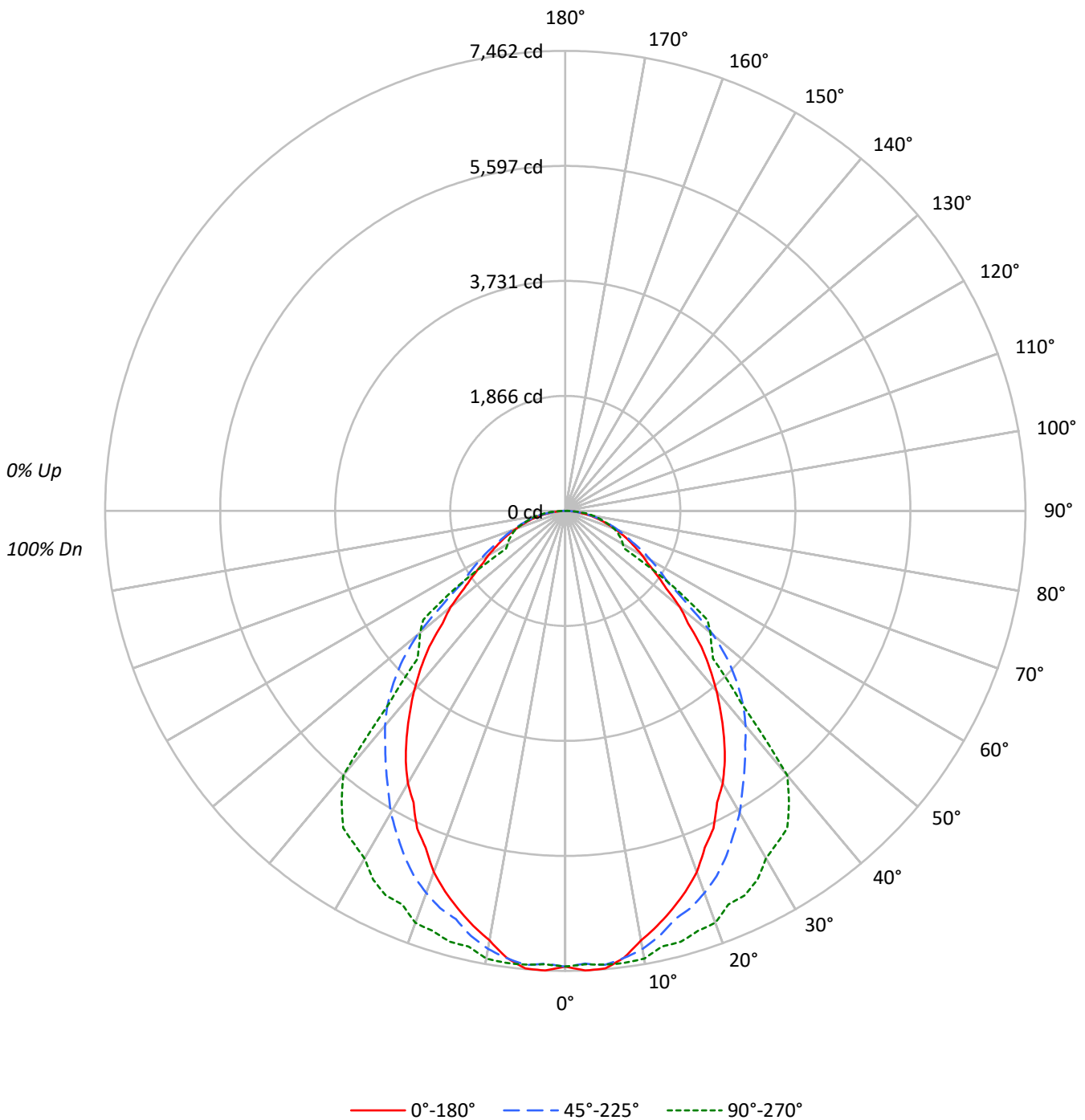
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15470.0 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.32 / 1.26
Luminous Opening: Rectangular (W 0.38' x L: 7.98' x H: 0')
CIE Type: Direct

Input Watts (W): 145
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 7.79
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	102	102	100
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	89	89	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77	77	77	75
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	75	70	67	67	67	65
4	86	76	68	62	84	74	67	61	72	66	60	70	64	60	68	63	59	59	59	57
5	80	68	60	54	78	67	60	54	65	59	53	63	57	53	62	56	52	52	52	50
6	74	62	54	48	73	61	54	48	60	53	48	58	52	47	56	51	47	47	47	45
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	42	42	40
8	65	52	44	39	63	52	44	39	50	43	39	49	43	38	48	42	38	38	38	36
9	61	48	41	35	59	48	40	35	47	40	35	46	39	35	45	39	35	35	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	32	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	26222	26222	26222
5°	26539	26330	26315
10°	25493	25994	26565
15°	24580	25186	26581
20°	23545	24906	26848
25°	22246	24175	26945
30°	20906	23165	26669
35°	19442	21971	27189
40°	17664	21062	25927
45°	15651	19767	17001
50°	13395	17276	16965
55°	11224	12608	13198
60°	10212	11382	7640
65°	9567	10077	8164
70°	8804	9547	8737
75°	8272	8956	8897
80°	7718	8471	9536
85°	6628	7067	10161

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 19767 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	702.3	4.5
10°-20°	1965.0	12.7
20°-30°	2863.8	18.5
30°-40°	3276.2	21.2
40°-50°	2802.6	18.1
50°-60°	1848.2	11.9
60°-70°	1117.3	7.2
70°-80°	683.5	4.4
80°-90°	211.1	1.4
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°	5531.1	35.8
0°-40°	8807.2	56.9
0°-60°	13458.0	87.0
0°-90°	15470.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15470.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7390	7390	7390	7390	7390	
5°	7451	7445	7393	7378	7388	698
15°	6692	6770	6857	7295	7236	1881
25°	5682	5769	6175	6702	6883	2599
35°	4489	4714	5072	5869	6277	2796
45°	3119	3360	3939	3681	3388	2388
55°	1814	1916	2038	2416	2134	1650
65°	1140	1168	1200	1072	972	1126
75°	603	619	653	684	649	637
85°	163	161	174	206	250	185
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7390.5	7390.5	7390.5	7390.5	7390.5
2.5°	7462.1	7440.4	7351.4	7436.1	7360.1
5°	7451.3	7444.8	7392.7	7377.5	7388.3
7.5°	7308.0	7323.2	7314.6	7477.3	7394.9
10°	7075.8	7106.2	7214.7	7442.6	7373.2
12.5°	6893.5	6917.4	7062.8	7401.4	7238.6
15°	6691.6	6769.8	6856.6	7295.0	7236.4
17.5°	6474.6	6548.4	6754.6	7151.8	7145.3
20°	6235.8	6372.6	6596.1	6965.1	7110.5
22.5°	5912.4	6096.9	6411.6	6880.5	6908.7
25°	5682.3	5769.2	6175.0	6702.5	6882.6
27.5°	5332.9	5497.9	5912.4	6446.4	6743.7
30°	5102.8	5239.6	5654.1	6296.6	6509.3
32.5°	4814.1	4976.9	5348.1	6133.8	6389.9
35°	4488.6	4714.3	5072.4	5869.0	6277.1
37.5°	4145.6	4369.2	4792.4	5649.8	5958.0
40°	3813.6	4004.6	4547.2	5387.2	5597.7
42.5°	3472.8	3679.0	4267.2	4868.4	4210.8
45°	3119.0	3359.9	3939.4	3681.2	3388.1
47.5°	2700.1	2995.3	3577.0	2958.4	3210.2
50°	2426.6	2587.2	3129.8	2789.1	3073.4
52.5°	2064.1	2281.2	2513.4	2604.6	2904.1
55°	1814.5	1916.5	2038.1	2415.8	2133.6
57.5°	1584.5	1675.6	1816.7	1703.8	1137.3
60°	1439.0	1480.3	1604.0	1217.6	1076.6
62.5°	1274.1	1315.3	1406.5	1137.3	1033.2
65°	1139.5	1167.7	1200.3	1072.2	972.4
67.5°	996.3	1011.4	1046.2	989.7	913.8
70°	848.7	870.4	920.3	905.1	842.2
72.5°	718.4	738.0	781.4	803.1	744.5
75°	603.4	618.6	653.3	683.7	649.0
77.5°	479.7	494.9	540.5	573.0	557.8
80°	377.7	379.8	414.6	447.1	466.7
82.5°	264.8	269.1	295.2	329.9	369.0
85°	162.8	160.6	173.6	206.2	249.6
87.5°	62.9	60.8	71.6	86.8	128.1
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	19.18	20.65	19.54	20.97	21.28	18.85	20.33	19.22	20.65	20.96
	3H	20.74	22.06	21.11	22.39	22.75	20.47	21.79	20.85	22.12	22.49
	4H	21.34	22.58	21.74	22.93	23.30	21.22	22.46	21.62	22.81	23.19
	6H	21.79	22.94	22.20	23.30	23.70	21.89	23.03	22.30	23.40	23.79
	8H	21.94	23.03	22.37	23.42	23.83	22.16	23.25	22.59	23.64	24.05
	12H	22.04	23.09	22.47	23.47	23.90	22.39	23.43	22.82	23.81	24.24
4H	2H	19.77	21.01	20.17	21.36	21.74	19.51	20.75	19.91	21.10	21.48
	3H	21.56	22.59	21.97	22.99	23.39	21.40	22.43	21.81	22.83	23.23
	4H	22.28	23.21	22.72	23.63	24.07	22.29	23.22	22.73	23.64	24.08
	6H	22.87	23.67	23.33	24.12	24.58	23.10	23.91	23.56	24.35	24.81
	8H	23.06	23.82	23.53	24.26	24.73	23.43	24.18	23.89	24.63	25.10
	12H	23.20	23.88	23.69	24.35	24.83	23.70	24.37	24.19	24.85	25.33
8H	4H	22.61	23.36	23.07	23.80	24.27	22.62	23.37	23.08	23.81	24.28
	6H	23.32	23.94	23.81	24.43	24.91	23.56	24.19	24.06	24.68	25.16
	8H	23.59	24.15	24.10	24.66	25.15	23.98	24.54	24.50	25.05	25.54
	12H	23.79	24.29	24.30	24.78	25.35	24.35	24.85	24.86	25.34	25.90
12H	4H	22.65	23.32	23.13	23.80	24.27	22.64	23.31	23.12	23.79	24.26
	6H	23.39	23.95	23.90	24.46	24.95	23.62	24.18	24.13	24.69	25.18
	8H	23.71	24.21	24.22	24.70	25.27	24.10	24.59	24.61	25.09	25.65