

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: P894606

Luminaire Tested: 8TMB-14HL-LVR-UNV-L835

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894606
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-14HL-LVR-UNV-L835
Description: 14000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER, 80CRI, 3500K CCT
Light Source: -
Ballast/Driver: -

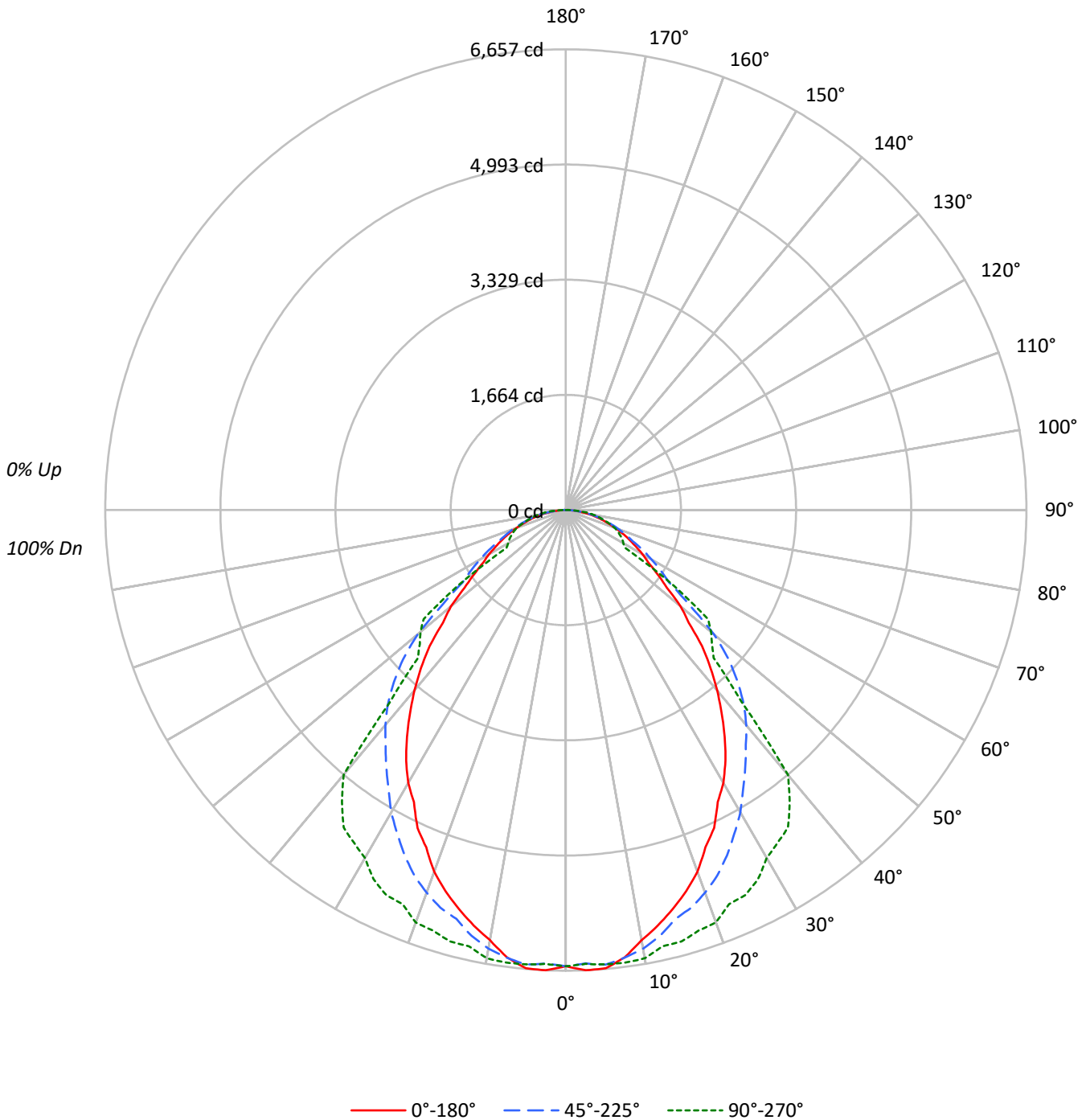
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13800.0 lumens
Efficiency: N/A
Efficacy: 133.2 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): 103.6
Input Voltage (V): 120
Input Current (A_{in}): 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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87	87	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77	75	75	75
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	75	70	67	65	65	65
4	86	76	68	62	84	74	67	61	72	66	60	70	64	60	68	63	59	57	57	57
5	80	68	60	54	78	67	60	54	65	59	53	63	57	53	62	56	52	50	50	50
6	74	62	54	48	73	61	54	48	60	53	48	58	52	47	56	51	47	45	45	45
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	40	40	40
8	65	52	44	39	63	52	44	39	50	43	39	49	43	38	48	42	38	36	36	36
9	61	48	41	35	59	48	40	35	47	40	35	46	39	35	45	39	35	33	33	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30	30	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	23392	23392	23392
5°	23674	23488	23474
10°	22741	23188	23697
15°	21927	22467	23712
20°	21004	22217	23950
25°	19844	21565	24036
30°	18650	20665	23790
35°	17343	19599	24254
40°	15757	18788	23128
45°	13961	17634	15166
50°	11949	15412	15133
55°	10013	11247	11774
60°	9109	10153	6815
65°	8534	8989	7282
70°	7853	8516	7793
75°	7380	7990	7936
80°	6884	7556	8506
85°	5911	6306	9066

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 17634 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	626.5	4.5
10°-20°	1752.9	12.7
20°-30°	2554.6	18.5
30°-40°	2922.5	21.2
40°-50°	2500.1	18.1
50°-60°	1648.7	11.9
60°-70°	996.7	7.2
70°-80°	609.7	4.4
80°-90°	188.3	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°	4934.0	35.8
0°-40°	7856.5	56.9
0°-60°	12005.2	87.0
0°-90°	13800.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13800.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6593	6593	6593	6593	6593	
5°	6647	6641	6595	6581	6591	623
15°	5969	6039	6116	6508	6455	1678
25°	5069	5146	5508	5979	6140	2319
35°	4004	4205	4525	5235	5599	2494
45°	2782	2997	3514	3284	3022	2130
55°	1619	1710	1818	2155	1903	1472
65°	1016	1042	1071	956	867	1005
75°	538	552	583	610	579	568
85°	145	143	155	184	223	165
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6592.7	6592.7	6592.7	6592.7	6592.7
2.5°	6656.6	6637.2	6557.9	6633.4	6565.6
5°	6646.9	6641.1	6594.6	6581.1	6590.8
7.5°	6519.1	6532.7	6524.9	6670.2	6596.6
10°	6312.0	6339.1	6435.9	6639.2	6577.2
12.5°	6149.3	6170.6	6300.3	6602.4	6457.2
15°	5969.3	6039.0	6116.4	6507.5	6455.2
17.5°	5775.6	5841.5	6025.4	6379.7	6373.9
20°	5562.7	5684.6	5884.1	6213.2	6342.9
22.5°	5274.2	5438.7	5719.5	6137.7	6162.9
25°	5068.9	5146.4	5508.4	5978.9	6139.6
27.5°	4757.2	4904.4	5274.2	5750.5	6015.7
30°	4552.0	4673.9	5043.8	5616.9	5806.6
32.5°	4294.5	4439.7	4770.8	5471.7	5700.1
35°	4004.0	4205.4	4524.9	5235.4	5599.4
37.5°	3698.1	3897.5	4275.1	5039.9	5314.8
40°	3401.9	3572.3	4056.3	4805.6	4993.4
42.5°	3097.9	3281.8	3806.5	4342.9	3756.2
45°	2782.3	2997.2	3514.2	3283.8	3022.4
47.5°	2408.6	2671.9	3190.8	2639.0	2863.6
50°	2164.7	2307.9	2792.0	2488.0	2741.6
52.5°	1841.3	2034.9	2242.1	2323.4	2590.6
55°	1618.6	1709.7	1818.1	2155.0	1903.3
57.5°	1413.4	1494.7	1620.6	1519.9	1014.6
60°	1283.7	1320.5	1430.8	1086.2	960.3
62.5°	1136.5	1173.3	1254.6	1014.6	921.6
65°	1016.5	1041.7	1070.7	956.5	867.4
67.5°	888.7	902.3	933.2	882.9	815.1
70°	757.0	776.4	820.9	807.4	751.2
72.5°	640.9	658.3	697.0	716.4	664.1
75°	538.3	551.8	582.8	609.9	578.9
77.5°	427.9	441.4	482.1	511.2	497.6
80°	336.9	338.8	369.8	398.9	416.3
82.5°	236.2	240.1	263.3	294.3	329.2
85°	145.2	143.3	154.9	183.9	222.7
87.5°	56.1	54.2	63.9	77.4	114.2
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	18.78	20.26	19.14	20.57	20.89	18.46	19.93	18.82	20.25	20.56
	3H	20.34	21.66	20.72	21.99	22.35	20.07	21.40	20.45	21.73	22.09
	4H	20.94	22.18	21.34	22.53	22.91	20.82	22.06	21.22	22.41	22.79
	6H	21.39	22.54	21.81	22.91	23.30	21.49	22.64	21.90	23.00	23.40
	8H	21.55	22.64	21.97	23.03	23.43	21.77	22.86	22.19	23.25	23.65
	12H	21.65	22.69	22.08	23.07	23.50	21.99	23.03	22.42	23.41	23.84
4H	2H	19.37	20.61	19.77	20.96	21.34	19.12	20.36	19.52	20.71	21.09
	3H	21.16	22.19	21.57	22.59	22.99	21.00	22.03	21.41	22.43	22.83
	4H	21.89	22.81	22.32	23.23	23.67	21.90	22.82	22.33	23.24	23.68
	6H	22.47	23.28	22.93	23.72	24.18	22.70	23.51	23.16	23.95	24.41
	8H	22.67	23.42	23.13	23.86	24.33	23.03	23.79	23.50	24.23	24.70
	12H	22.81	23.48	23.29	23.96	24.43	23.31	23.98	23.79	24.46	24.93
8H	4H	22.21	22.96	22.67	23.41	23.87	22.22	22.97	22.68	23.42	23.88
	6H	22.92	23.54	23.42	24.03	24.51	23.17	23.79	23.67	24.28	24.76
	8H	23.19	23.75	23.70	24.26	24.75	23.59	24.15	24.10	24.66	25.15
	12H	23.40	23.89	23.91	24.39	24.95	23.95	24.45	24.46	24.94	25.51
12H	4H	22.25	22.92	22.73	23.40	23.87	22.24	22.92	22.73	23.40	23.87
	6H	22.99	23.55	23.50	24.06	24.55	23.22	23.78	23.74	24.29	24.78
	8H	23.32	23.82	23.83	24.31	24.87	23.70	24.20	24.21	24.69	25.25