

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: P894590

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894590
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2403-334-4)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-14HL-FLT-UNV-L835
Description: 14000 Lumen 8FT MICROBAY LINEAR BAY with FLAT FROSTED LENS, 80CRI, 3500K CCT
Light Source: -
Ballast/Driver: -

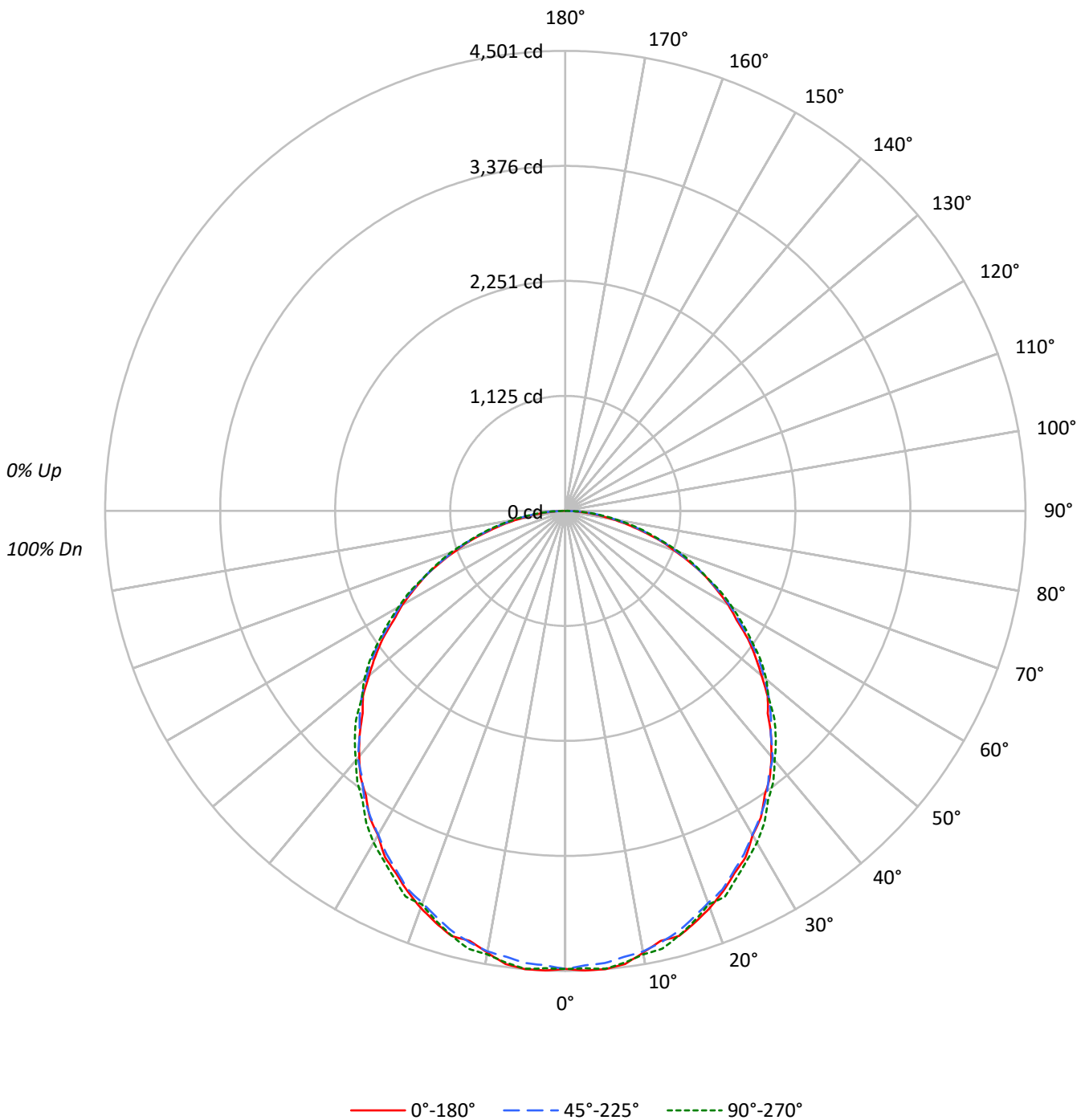
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12417.0 lumens
Efficiency: N/A
Efficacy: 119.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.24 / 1.34
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	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	109	104	99	96	106	102	98	94	97	94	91	93	91	88	90	88	86	86	86	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	72	72	72	70
3	90	79	71	65	88	78	70	64	75	68	63	72	67	62	69	65	61	61	61	61	59
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	52	52	52	50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	45	45	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	40	40	40	38
7	65	51	43	36	63	51	42	36	49	41	36	48	41	36	46	40	35	35	35	35	33
8	60	47	38	33	59	46	38	32	45	37	32	44	37	32	42	36	32	32	32	32	30
9	57	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29	29	29	29	27
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	26	26	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15900	15900	15900
5°	16030	15816	16016
10°	15811	15769	15874
15°	15814	15651	15800
20°	15605	15415	15474
25°	15324	15240	15513
30°	15013	14989	15362
35°	14724	14850	14975
40°	14525	14615	14758
45°	14055	14269	14531
50°	13827	14030	14169
55°	13484	13651	13795
60°	13064	13256	13380
65°	12677	12725	12725
70°	11788	12069	12370
75°	10853	11278	11517
80°	9573	10402	10758
85°	8590	9616	10324

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 14531 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	424.2	3.4
10°-20°	1208.9	9.7
20°-30°	1813.2	14.6
30°-40°	2153.4	17.3
40°-50°	2204.8	17.8
50°-60°	1975.4	15.9
60°-70°	1500.6	12.1
70°-80°	874.0	7.0
80°-90°	262.5	2.1
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°	3446.2	27.8
0°-40°	5599.6	45.1
0°-60°	9779.9	78.8
0°-90°	12417.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12417.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4481	4481	4481	4481	4481	
5°	4501	4483	4441	4468	4497	426
15°	4305	4334	4261	4278	4301	1208
25°	3914	3949	3893	3943	3963	1806
35°	3399	3475	3428	3442	3457	2137
45°	2801	2871	2844	2867	2896	2179
55°	2180	2213	2207	2232	2230	1942
65°	1510	1510	1516	1535	1516	1483
75°	792	805	823	848	840	843
85°	211	215	236	252	254	236
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4481.3	4481.3	4481.3	4481.3	4481.3
2.5°	4500.7	4479.4	4450.4	4460.1	4479.4
5°	4500.7	4483.3	4440.7	4467.8	4496.8
7.5°	4471.7	4494.9	4402.0	4402.0	4456.2
10°	4388.4	4433.0	4376.8	4371.0	4405.8
12.5°	4309.1	4390.4	4324.5	4343.9	4386.5
15°	4305.2	4334.2	4260.7	4278.1	4301.3
17.5°	4221.9	4251.0	4171.6	4204.5	4204.5
20°	4132.9	4138.7	4082.6	4154.2	4098.1
22.5°	4030.3	4090.3	4012.9	4036.1	4084.5
25°	3914.2	3949.0	3892.9	3943.2	3962.6
27.5°	3819.3	3861.9	3784.5	3844.5	3850.3
30°	3664.4	3710.9	3658.6	3697.4	3749.6
32.5°	3559.9	3575.4	3548.3	3606.4	3621.9
35°	3399.2	3474.7	3428.3	3441.8	3457.3
37.5°	3287.0	3310.2	3269.5	3316.0	3341.2
40°	3136.0	3170.8	3155.3	3163.1	3186.3
42.5°	2979.2	3016.0	2975.3	3031.4	3048.9
45°	2801.1	2870.8	2843.7	2866.9	2895.9
47.5°	2684.9	2708.2	2700.4	2714.0	2694.6
50°	2504.9	2528.1	2541.7	2559.1	2566.9
52.5°	2344.2	2361.7	2386.8	2396.5	2413.9
55°	2179.7	2212.6	2206.8	2232.0	2230.0
57.5°	1988.1	2036.4	2021.0	2057.7	2057.7
60°	1840.9	1848.7	1868.0	1885.5	1885.5
62.5°	1670.6	1680.3	1689.9	1705.4	1717.0
65°	1509.9	1509.9	1515.7	1535.1	1515.7
67.5°	1324.1	1316.3	1335.7	1358.9	1357.0
70°	1136.3	1146.0	1163.4	1192.4	1192.4
72.5°	975.6	975.6	995.0	1010.5	1008.5
75°	791.7	805.3	822.7	847.9	840.1
77.5°	627.2	636.9	665.9	689.1	691.1
80°	468.5	478.1	509.1	532.3	526.5
82.5°	327.1	340.7	369.7	387.2	385.2
85°	211.0	214.9	236.2	251.7	253.6
87.5°	96.8	104.5	120.0	125.8	125.8
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	21.14	22.78	21.51	23.09	23.41	21.25	22.88	21.61	23.20	23.51
	3H	22.92	24.40	23.30	24.73	25.09	23.08	24.57	23.46	24.89	25.25
	4H	23.58	24.98	23.98	25.33	25.70	23.78	25.18	24.18	25.53	25.90
	6H	24.06	25.35	24.47	25.72	26.11	24.33	25.63	24.74	25.99	26.38
	8H	24.21	25.45	24.63	25.84	26.23	24.52	25.76	24.94	26.15	26.55
	12H	24.31	25.50	24.74	25.88	26.31	24.66	25.85	25.09	26.23	26.66
4H	2H	21.79	23.18	22.18	23.53	23.91	21.87	23.27	22.27	23.61	23.99
	3H	23.79	24.96	24.20	25.36	25.76	23.93	25.11	24.34	25.50	25.90
	4H	24.58	25.64	25.01	26.05	26.49	24.77	25.83	25.20	26.24	26.68
	6H	25.18	26.11	25.63	26.55	27.00	25.46	26.39	25.91	26.83	27.28
	8H	25.38	26.25	25.84	26.69	27.15	25.70	26.57	26.16	27.02	27.48
	12H	25.53	26.31	26.01	26.79	27.25	25.90	26.68	26.38	27.16	27.63
8H	4H	24.91	25.79	25.37	26.23	26.69	25.08	25.95	25.54	26.40	26.86
	6H	25.64	26.36	26.13	26.85	27.33	25.91	26.63	26.40	27.12	27.59
	8H	25.91	26.56	26.42	27.07	27.55	26.24	26.89	26.75	27.39	27.88
	12H	26.14	26.71	26.64	27.20	27.76	26.53	27.10	27.03	27.59	28.15
12H	4H	24.96	25.74	25.44	26.22	26.69	25.12	25.90	25.60	26.37	26.84
	6H	25.71	26.36	26.22	26.87	27.35	25.96	26.62	26.47	27.12	27.61
	8H	26.05	26.62	26.55	27.11	27.67	26.36	26.94	26.87	27.43	27.99