

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: P894782

Luminaire Tested: 8TMB-18HL-FLT-UNV-L835

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894782
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-18HL-FLT-UNV-L835
Description: 18000 Lumen 8FT MICROBAY LINEAR BAY with FLAT FROSTED LENS, 80CRI, 3500K CCT
Light Source: -
Ballast/Driver: -

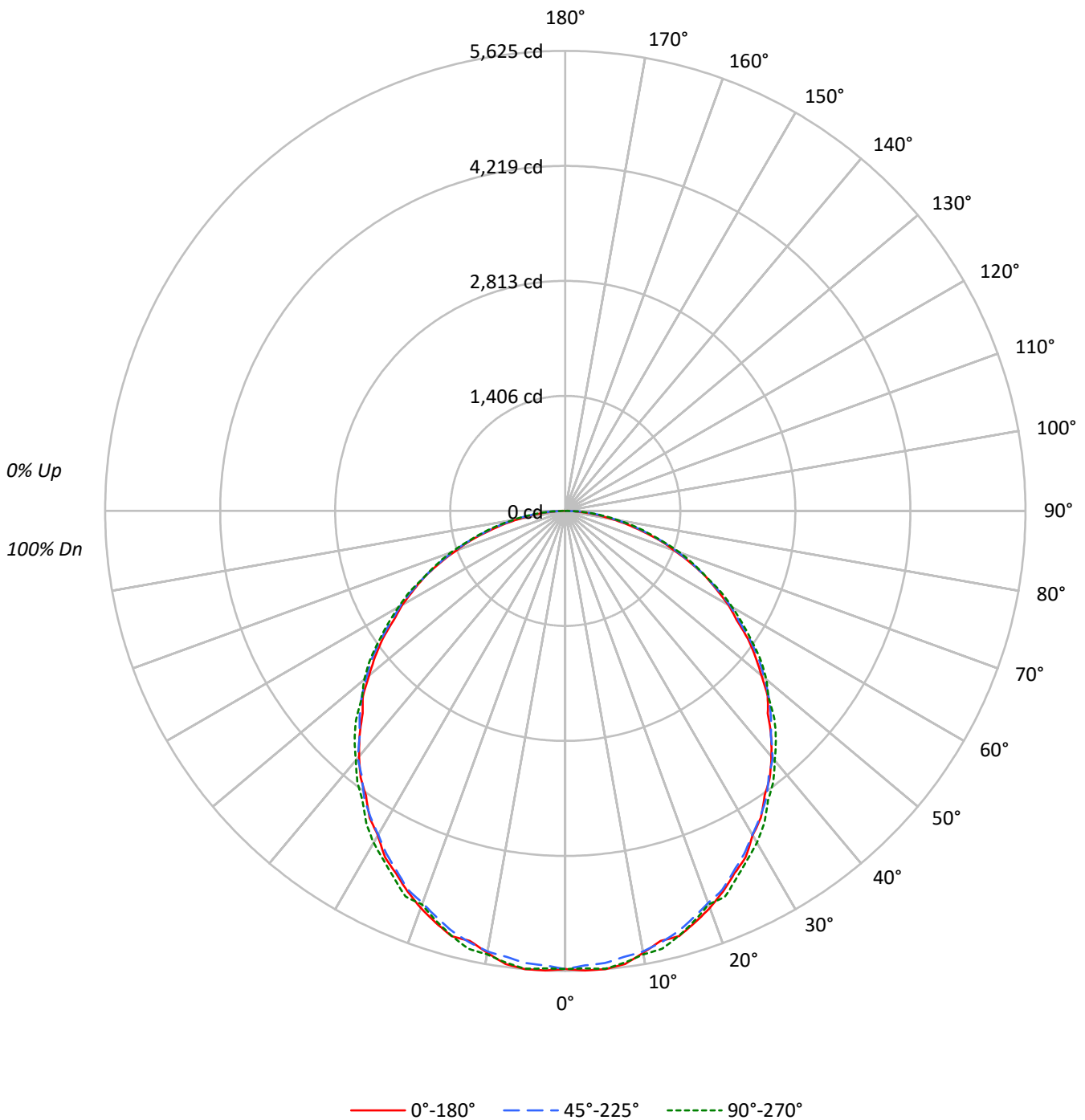
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15519.0 lumens
Efficiency: N/A
Efficacy: 115.1 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): 134.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.996
Total Harmonic Distortion (THDi): 8.62
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				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°	19873	19873	19873
5°	20035	19768	20017
10°	19761	19708	19839
15°	19765	19561	19747
20°	19504	19266	19339
25°	19152	19048	19389
30°	18764	18734	19200
35°	18402	18559	18716
40°	18154	18266	18445
45°	17566	17834	18162
50°	17281	17535	17708
55°	16852	17062	17241
60°	16327	16568	16722
65°	15843	15905	15905
70°	14733	15084	15460
75°	13565	14096	14394
80°	11963	13001	13447
85°	10735	12018	12901

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 18162 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	530.1	3.4
10°-20°	1510.9	9.7
20°-30°	2266.1	14.6
30°-40°	2691.4	17.3
40°-50°	2755.6	17.8
50°-60°	2468.9	15.9
60°-70°	1875.5	12.1
70°-80°	1092.4	7.0
80°-90°	328.1	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°	4307.1	27.8
0°-40°	6998.5	45.1
0°-60°	12223.0	78.8
0°-90°	15519.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15519.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5601	5601	5601	5601	5601	
5°	5625	5603	5550	5584	5620	533
15°	5381	5417	5325	5347	5376	1510
25°	4892	4936	4865	4928	4952	2258
35°	4248	4343	4285	4302	4321	2670
45°	3501	3588	3554	3583	3619	2723
55°	2724	2765	2758	2790	2787	2427
65°	1887	1887	1894	1919	1894	1853
75°	990	1006	1028	1060	1050	1053
85°	264	269	295	314	317	296
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5600.9	5600.9	5600.9	5600.9	5600.9
2.5°	5625.1	5598.5	5562.2	5574.3	5598.5
5°	5625.1	5603.3	5550.1	5583.9	5620.2
7.5°	5588.8	5617.8	5501.7	5501.7	5569.4
10°	5484.7	5540.4	5470.2	5463.0	5506.5
12.5°	5385.5	5487.2	5404.9	5429.1	5482.3
15°	5380.7	5417.0	5325.1	5346.8	5375.9
17.5°	5276.7	5313.0	5213.8	5254.9	5254.9
20°	5165.4	5172.6	5102.5	5192.0	5121.8
22.5°	5037.2	5112.2	5015.4	5044.4	5104.9
25°	4892.0	4935.5	4865.4	4928.3	4952.5
27.5°	4773.4	4826.7	4729.9	4804.9	4812.2
30°	4579.9	4638.0	4572.6	4621.0	4686.3
32.5°	4449.2	4468.6	4434.7	4507.3	4526.7
35°	4248.4	4342.8	4284.7	4301.7	4321.0
37.5°	4108.1	4137.1	4086.3	4144.4	4175.9
40°	3919.4	3962.9	3943.6	3953.3	3982.3
42.5°	3723.4	3769.4	3718.6	3788.8	3810.5
45°	3500.8	3587.9	3554.1	3583.1	3619.4
47.5°	3355.7	3384.7	3375.0	3392.0	3367.8
50°	3130.7	3159.7	3176.6	3198.4	3208.1
52.5°	2929.9	2951.6	2983.1	2995.2	3017.0
55°	2724.2	2765.4	2758.1	2789.5	2787.1
57.5°	2484.7	2545.2	2525.8	2571.8	2571.8
60°	2300.8	2310.5	2334.7	2356.5	2356.5
62.5°	2087.9	2100.0	2112.1	2131.5	2146.0
65°	1887.1	1887.1	1894.4	1918.6	1894.4
67.5°	1654.9	1645.2	1669.4	1698.4	1696.0
70°	1420.2	1432.3	1454.0	1490.3	1490.3
72.5°	1219.4	1219.4	1243.6	1262.9	1260.5
75°	989.5	1006.5	1028.2	1059.7	1050.0
77.5°	783.9	796.0	832.3	861.3	863.7
80°	585.5	597.6	636.3	665.3	658.1
82.5°	408.9	425.8	462.1	483.9	481.5
85°	263.7	268.6	295.2	314.5	316.9
87.5°	121.0	130.6	150.0	157.3	157.3
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	21.92	23.55	22.28	23.87	24.18	22.02	23.66	22.38	23.97	24.29
	3H	23.70	25.18	24.07	25.50	25.86	23.86	25.34	24.23	25.67	26.03
	4H	24.36	25.76	24.76	26.10	26.48	24.56	25.95	24.95	26.30	26.68
	6H	24.83	26.13	25.24	26.49	26.88	25.10	26.40	25.52	26.76	27.16
	8H	24.98	26.22	25.41	26.61	27.01	25.29	26.53	25.72	26.92	27.32
	12H	25.09	26.28	25.52	26.66	27.09	25.44	26.63	25.87	27.01	27.44
4H	2H	22.56	23.96	22.96	24.30	24.68	22.64	24.04	23.04	24.39	24.76
	3H	24.56	25.74	24.97	26.13	26.53	24.71	25.88	25.12	26.28	26.68
	4H	25.35	26.42	25.79	26.83	27.27	25.54	26.61	25.97	27.02	27.45
	6H	25.95	26.88	26.41	27.32	27.78	26.23	27.16	26.69	27.60	28.06
	8H	26.15	27.02	26.61	27.46	27.93	26.48	27.35	26.94	27.79	28.26
	12H	26.30	27.09	26.78	27.56	28.03	26.68	27.46	27.16	27.93	28.40
8H	4H	25.69	26.56	26.15	27.00	27.47	25.86	26.73	26.32	27.17	27.63
	6H	26.41	27.14	26.91	27.63	28.10	26.68	27.41	27.17	27.89	28.37
	8H	26.69	27.34	27.19	27.84	28.33	27.01	27.66	27.52	28.17	28.66
	12H	26.91	27.49	27.42	27.98	28.54	27.30	27.88	27.81	28.37	28.93
12H	4H	25.73	26.52	26.21	26.99	27.46	25.89	26.67	26.37	27.15	27.62
	6H	26.49	27.14	26.99	27.64	28.13	26.74	27.39	27.25	27.90	28.38
	8H	26.82	27.40	27.33	27.89	28.45	27.14	27.71	27.64	28.20	28.76