

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: P894826

Luminaire Tested: 8TMB-18HL-RFLW-UNV-L935

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894826
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2408-210-7)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-18HL-RFLW-UNV-L935
Description: 18000 Lumen 8FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 90CRI, 3500K
Light Source: -
Ballast/Driver: -

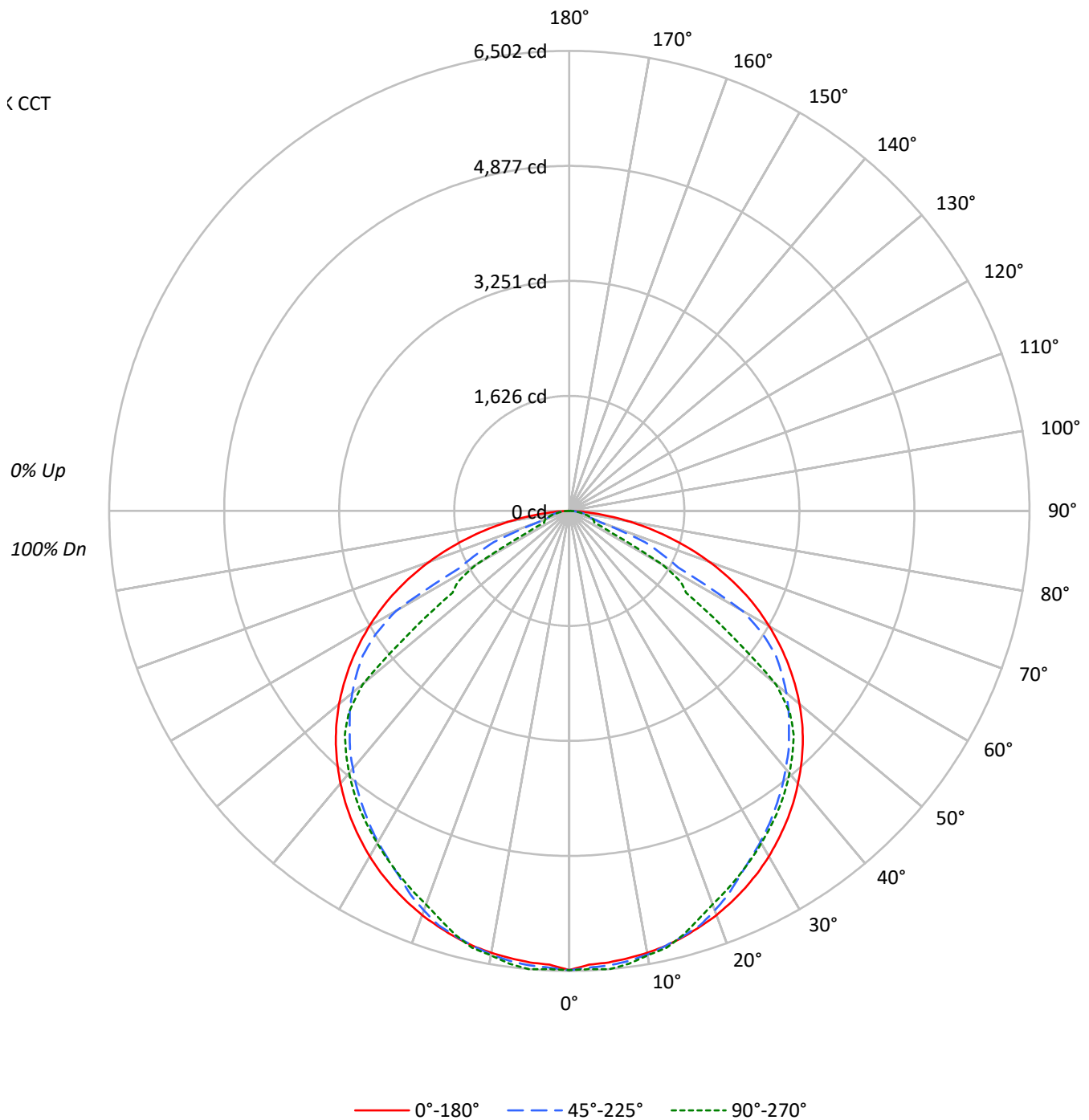
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16919.0 lumens
Efficiency: N/A
Efficacy: 125.5 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.25 / 1.38
Luminous Opening: Rectangular (W 0.21' x L: 7.98' x H: 0')
CIE Type: Direct

Input Watts (W): 134.8
Input Voltage (V): 120
Input Current (Ain): 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	
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	100			100	
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86			86	
2	101	93	87	82	98	91	85	81	88	83	79	85	81	77	82	78	75	73			73	
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62			62	
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54			54	
5	78	66	57	51	76	65	56	50	62	55	50	61	54	49	59	53	49	47			47	
6	72	59	51	44	70	58	50	44	56	49	44	55	48	43	53	48	43	41			41	
7	67	54	45	39	65	53	45	39	51	44	39	50	43	39	49	43	38	36			36	
8	62	49	41	35	61	48	40	35	47	40	35	46	39	35	45	39	34	32			32	
9	58	45	37	32	57	44	37	31	43	36	31	42	36	31	41	35	31	29			29	
10	54	42	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	26			26	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	42025	42025	42025
5°	41640	41913	42264
10°	41700	41858	41937
15°	41791	41697	41604
20°	41897	41414	40780
25°	42011	40682	40596
30°	42171	40406	40571
35°	42323	40252	40742
40°	42501	40202	40912
45°	42729	40183	41080
50°	42793	40335	38381
55°	42606	40212	22760
60°	42245	36650	19737
65°	41554	22156	5976
70°	39911	8785	6854
75°	36978	7206	7005
80°	31995	7607	6563
85°	22735	7133	6241

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 42793 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	614.7	3.6
10°-20°	1760.5	10.4
20°-30°	2660.4	15.7
30°-40°	3245.9	19.2
40°-50°	3433.6	20.3
50°-60°	2843.9	16.8
60°-70°	1581.0	9.3
70°-80°	640.9	3.8
80°-90°	138.2	0.8
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°	5035.6	29.8
0°-40°	8281.5	48.9
0°-60°	14559.0	86.1
0°-90°	16919.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16919.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6490	6490	6490	6490	6490	
5°	6406	6520	6448	6458	6502	609
15°	6234	6330	6220	6216	6206	1761
25°	5880	5922	5694	5658	5682	2712
35°	5354	5288	5092	5112	5154	3351
45°	4666	4426	4388	4442	4486	3597
55°	3774	3518	3562	2444	2016	3372
65°	2712	2486	1446	486	390	2674
75°	1478	824	288	284	280	1561
85°	306	102	96	88	84	384
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6489.9	6489.9	6489.9	6489.9	6489.9
2.5°	6419.9	6531.9	6461.9	6475.9	6481.9
5°	6405.9	6519.9	6447.9	6457.9	6501.9
7.5°	6375.9	6491.9	6415.9	6421.9	6455.9
10°	6341.9	6447.9	6365.9	6355.9	6377.9
12.5°	6295.9	6391.9	6295.9	6299.9	6327.9
15°	6233.9	6329.9	6219.9	6215.9	6205.9
17.5°	6159.9	6249.9	6141.9	6077.9	6055.9
20°	6079.9	6149.9	6009.9	5911.9	5917.9
22.5°	5983.9	6043.9	5867.9	5777.9	5803.9
25°	5879.9	5921.9	5693.9	5657.9	5681.9
27.5°	5765.9	5797.9	5543.9	5535.9	5555.9
30°	5639.9	5651.9	5403.9	5399.9	5425.9
32.5°	5499.9	5479.9	5253.9	5257.9	5291.9
35°	5353.9	5287.9	5091.9	5111.9	5153.9
37.5°	5199.9	5081.9	4931.9	4957.9	5003.9
40°	5027.9	4867.9	4755.9	4795.9	4839.9
42.5°	4851.9	4643.9	4585.9	4623.9	4665.9
45°	4665.9	4425.9	4387.9	4441.9	4485.9
47.5°	4463.9	4211.9	4205.9	4247.9	4227.9
50°	4247.9	3989.9	4003.9	3947.9	3809.9
52.5°	4015.9	3759.9	3787.9	3545.9	2865.9
55°	3773.9	3517.9	3561.9	2444.0	2016.0
57.5°	3525.9	3269.9	3241.9	1870.0	1868.0
60°	3261.9	3017.9	2829.9	1652.0	1524.0
62.5°	2995.9	2756.0	1738.0	1244.0	700.0
65°	2712.0	2486.0	1446.0	486.0	390.0
67.5°	2414.0	2212.0	1158.0	366.0	380.0
70°	2108.0	1928.0	464.0	354.0	362.0
72.5°	1796.0	1488.0	308.0	328.0	328.0
75°	1478.0	824.0	288.0	284.0	280.0
77.5°	1162.0	552.0	252.0	234.0	228.0
80°	858.0	198.0	204.0	182.0	176.0
82.5°	568.0	154.0	146.0	132.0	128.0
85°	306.0	102.0	96.0	88.0	84.0
87.5°	110.0	52.0	52.0	42.0	38.0
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	25.67	27.24	26.03	27.55	27.87	21.66	23.23	22.02	23.54	23.86
	3H	27.67	29.08	28.05	29.41	29.77	21.79	23.20	22.17	23.52	23.88
	4H	28.28	29.60	28.68	29.95	30.33	21.91	23.23	22.31	23.57	23.95
	6H	28.68	29.90	29.10	30.27	30.66	22.01	23.23	22.43	23.60	23.99
	8H	28.80	29.96	29.23	30.35	30.75	22.05	23.21	22.47	23.60	24.00
	12H	28.87	29.98	29.30	30.37	30.79	22.07	23.18	22.50	23.56	23.99
4H	2H	25.79	27.11	26.19	27.46	27.84	22.38	23.70	22.78	24.05	24.43
	3H	27.95	29.04	28.37	29.44	29.84	22.58	23.67	22.99	24.07	24.47
	4H	28.61	29.59	29.04	30.00	30.44	22.73	23.71	23.17	24.13	24.56
	6H	29.06	29.90	29.51	30.35	30.81	22.90	23.75	23.36	24.19	24.65
	8H	29.20	29.99	29.66	30.43	30.90	22.95	23.74	23.41	24.19	24.65
	12H	29.30	30.01	29.78	30.49	30.96	23.00	23.71	23.48	24.18	24.66
8H	4H	28.55	29.34	29.01	29.78	30.25	23.01	23.80	23.47	24.24	24.71
	6H	28.99	29.64	29.48	30.13	30.61	23.21	23.87	23.71	24.36	24.84
	8H	29.14	29.73	29.65	30.23	30.72	23.30	23.89	23.81	24.39	24.88
	12H	29.27	29.79	29.78	30.28	30.85	23.38	23.90	23.89	24.40	24.96
12H	4H	28.52	29.23	29.00	29.71	30.18	23.02	23.73	23.50	24.21	24.68
	6H	28.95	29.54	29.46	30.05	30.53	23.23	23.82	23.74	24.33	24.82
	8H	29.12	29.64	29.63	30.13	30.70	23.35	23.88	23.86	24.37	24.93