

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: P894822

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894822
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-L835
Description: 18000 Lumen 8FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 80CRI, 3500K
Light Source: -
Ballast/Driver: -

Summary

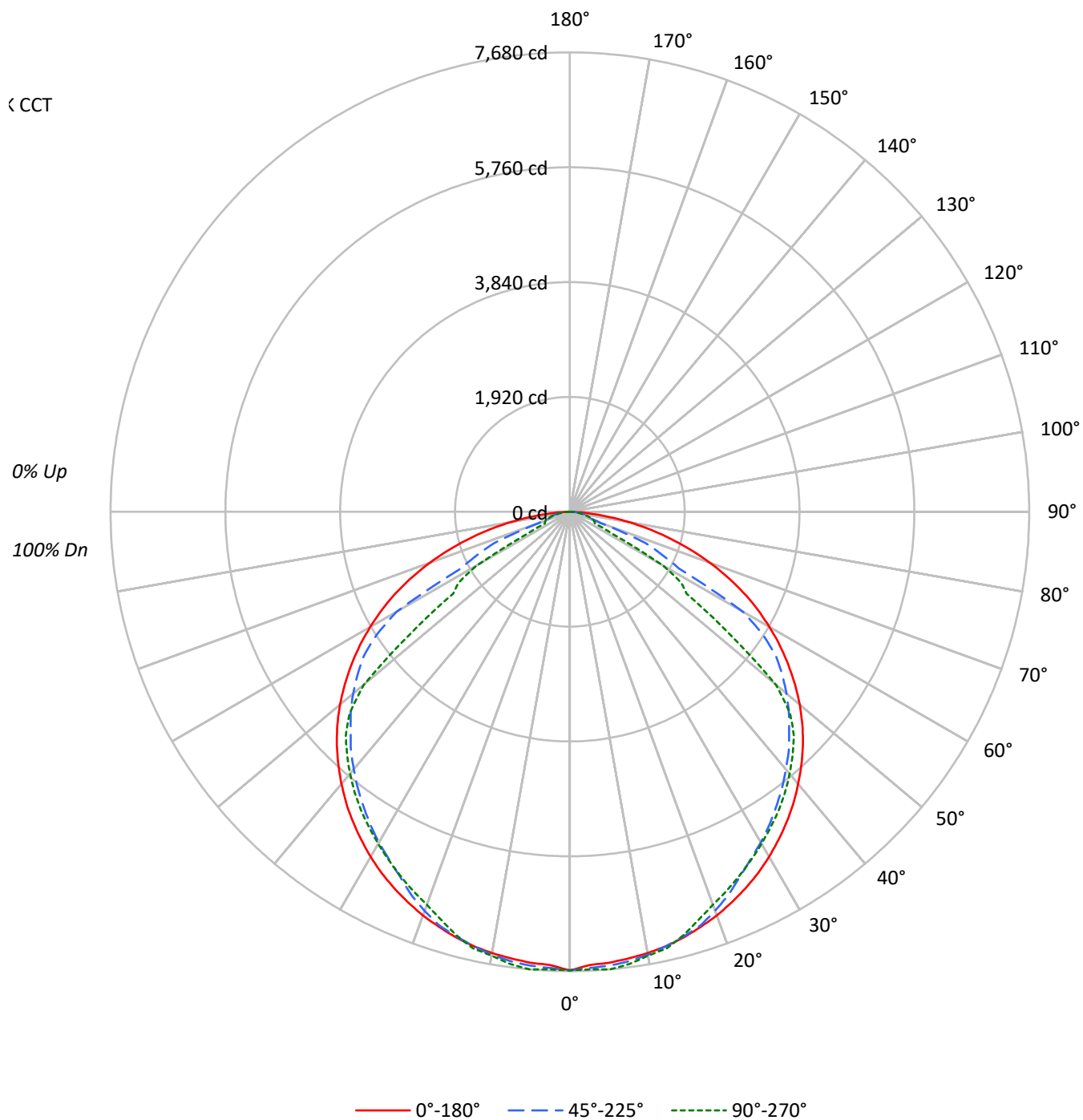
Lumens per Lamp: N/A
Luminaire Lumens: 19986.0 lumens
Efficiency: N/A
Efficacy: 148.3 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.25 / 1.38
Luminous Opening: Rectangular (W 0.21' x L: 7.98' x H: 0')
CIE Type: Direct

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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	106	102	98	107	103	100	97	99	96	94		95	93	91		92
2	101	93	87	82	98	91	85	81	88	83	79		85	81	77		82
3	92	82	75	69	90	81	74	68	78	72	67		75	70	66		73
4	85	73	65	59	82	72	64	58	70	63	57		67	61	57		65
5	78	66	57	51	76	65	56	50	62	55	50		61	54	49		59
6	72	59	51	44	70	58	50	44	56	49	44		55	48	43		53
7	67	54	45	39	65	53	45	39	51	44	39		50	43	39		49
8	62	49	41	35	61	48	40	35	47	40	35		46	39	35		45
9	58	45	37	32	57	44	37	31	43	36	31		42	36	31		41
10	54	42	34	29	53	41	34	29	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	49643	49643	49643
5°	49188	49510	49925
10°	49259	49446	49539
15°	49367	49256	49145
20°	49491	48921	48173
25°	49627	48057	47956
30°	49815	47731	47925
35°	49995	47548	48128
40°	50205	47490	48329
45°	50474	47467	48527
50°	50551	47647	45339
55°	50330	47502	26885
60°	49904	43294	23314
65°	49086	26172	7059
70°	47145	10377	8096
75°	43681	8512	8276
80°	37794	8987	7753
85°	26859	8425	7370

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 50°

Luminance: 50551 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	726.2	3.6
10°-20°	2079.6	10.4
20°-30°	3142.6	15.7
30°-40°	3834.3	19.2
40°-50°	4056.0	20.3
50°-60°	3359.4	16.8
60°-70°	1867.5	9.3
70°-80°	757.0	3.8
80°-90°	163.2	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°	5948.4	29.8
0°-40°	9782.8	48.9
0°-60°	17198.2	86.1
0°-90°	19986.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19986.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7666	7666	7666	7666	7666	
5°	7567	7702	7617	7628	7680	720
15°	7364	7477	7347	7343	7331	2080
25°	6946	6995	6726	6684	6712	3204
35°	6324	6246	6015	6039	6088	3959
45°	5512	5228	5183	5247	5299	4249
55°	4458	4156	4208	2887	2381	3983
65°	3204	2937	1708	574	461	3159
75°	1746	973	340	336	331	1843
85°	362	120	113	104	99	454
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7666.3	7666.3	7666.3	7666.3	7666.3
2.5°	7583.7	7716.0	7633.3	7649.8	7656.9
5°	7567.1	7701.8	7616.7	7628.5	7680.5
7.5°	7531.7	7668.7	7578.9	7586.0	7626.2
10°	7491.5	7616.7	7519.9	7508.1	7534.0
12.5°	7437.2	7550.6	7437.2	7441.9	7475.0
15°	7363.9	7477.3	7347.4	7342.7	7330.9
17.5°	7276.5	7382.8	7255.3	7179.7	7153.7
20°	7182.0	7264.7	7099.3	6983.6	6990.7
22.5°	7068.6	7139.5	6931.6	6825.3	6856.0
25°	6945.8	6995.4	6726.1	6683.5	6711.9
27.5°	6811.1	6848.9	6548.9	6539.4	6563.0
30°	6662.3	6676.4	6383.5	6378.8	6409.5
32.5°	6496.9	6473.3	6206.3	6211.0	6251.2
35°	6324.4	6246.5	6014.9	6038.6	6088.2
37.5°	6142.5	6003.1	5825.9	5856.7	5911.0
40°	5939.3	5750.3	5618.0	5665.3	5717.3
42.5°	5731.4	5485.7	5417.2	5462.1	5511.7
45°	5511.7	5228.2	5183.3	5247.1	5299.1
47.5°	5273.1	4975.4	4968.4	5018.0	4994.3
50°	5018.0	4713.2	4729.7	4663.6	4500.6
52.5°	4743.9	4441.5	4474.6	4188.7	3385.5
55°	4458.1	4155.7	4207.6	2887.0	2381.4
57.5°	4165.1	3862.7	3829.6	2208.9	2206.6
60°	3853.3	3565.0	3342.9	1951.4	1800.2
62.5°	3539.0	3255.5	2053.0	1469.5	826.9
65°	3203.6	2936.6	1708.1	574.1	460.7
67.5°	2851.5	2612.9	1367.9	432.3	448.9
70°	2490.1	2277.5	548.1	418.2	427.6
72.5°	2121.5	1757.7	363.8	387.5	387.5
75°	1745.9	973.4	340.2	335.5	330.8
77.5°	1372.6	652.1	297.7	276.4	269.3
80°	1013.5	233.9	241.0	215.0	207.9
82.5°	671.0	181.9	172.5	155.9	151.2
85°	361.5	120.5	113.4	104.0	99.2
87.5°	129.9	61.4	61.4	49.6	44.9
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	26.24	27.82	26.61	28.13	28.45	22.23	23.81	22.60	24.12	24.44
	3H	28.25	29.66	28.63	29.99	30.35	22.37	23.77	22.74	24.10	24.46
	4H	28.86	30.18	29.26	30.53	30.91	22.48	23.80	22.88	24.15	24.53
	6H	29.26	30.48	29.68	30.85	31.24	22.59	23.81	23.00	24.18	24.57
	8H	29.38	30.54	29.81	30.93	31.33	22.63	23.79	23.05	24.18	24.58
	12H	29.45	30.56	29.88	30.94	31.37	22.65	23.76	23.08	24.14	24.57
4H	2H	26.37	27.69	26.77	28.04	28.42	22.96	24.28	23.36	24.63	25.00
	3H	28.53	29.62	28.94	30.02	30.42	23.16	24.25	23.57	24.65	25.05
	4H	29.19	30.17	29.62	30.58	31.02	23.31	24.29	23.74	24.70	25.14
	6H	29.63	30.48	30.09	30.93	31.38	23.48	24.33	23.93	24.77	25.23
	8H	29.77	30.57	30.24	31.01	31.48	23.53	24.32	23.99	24.77	25.23
	12H	29.88	30.59	30.36	31.07	31.54	23.58	24.29	24.06	24.76	25.23
8H	4H	29.12	29.92	29.59	30.36	30.83	23.58	24.38	24.05	24.82	25.29
	6H	29.57	30.22	30.06	30.71	31.19	23.79	24.45	24.29	24.94	25.41
	8H	29.72	30.30	30.23	30.81	31.30	23.87	24.46	24.39	24.97	25.46
	12H	29.85	30.37	30.36	30.86	31.42	23.96	24.48	24.47	24.97	25.54
12H	4H	29.10	29.81	29.58	30.29	30.76	23.60	24.31	24.08	24.78	25.26
	6H	29.53	30.12	30.04	30.62	31.11	23.81	24.40	24.32	24.91	25.40
	8H	29.70	30.22	30.21	30.71	31.28	23.93	24.45	24.44	24.95	25.51

END OF REPORT