

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: P894825

Luminaire Tested: 8TMB-18HL-RFLW-UNV-L930

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894825
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-L930
Description: 18000 Lumen 8FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 90CRI, 3000K
Light Source: -
Ballast/Driver: -

Summary

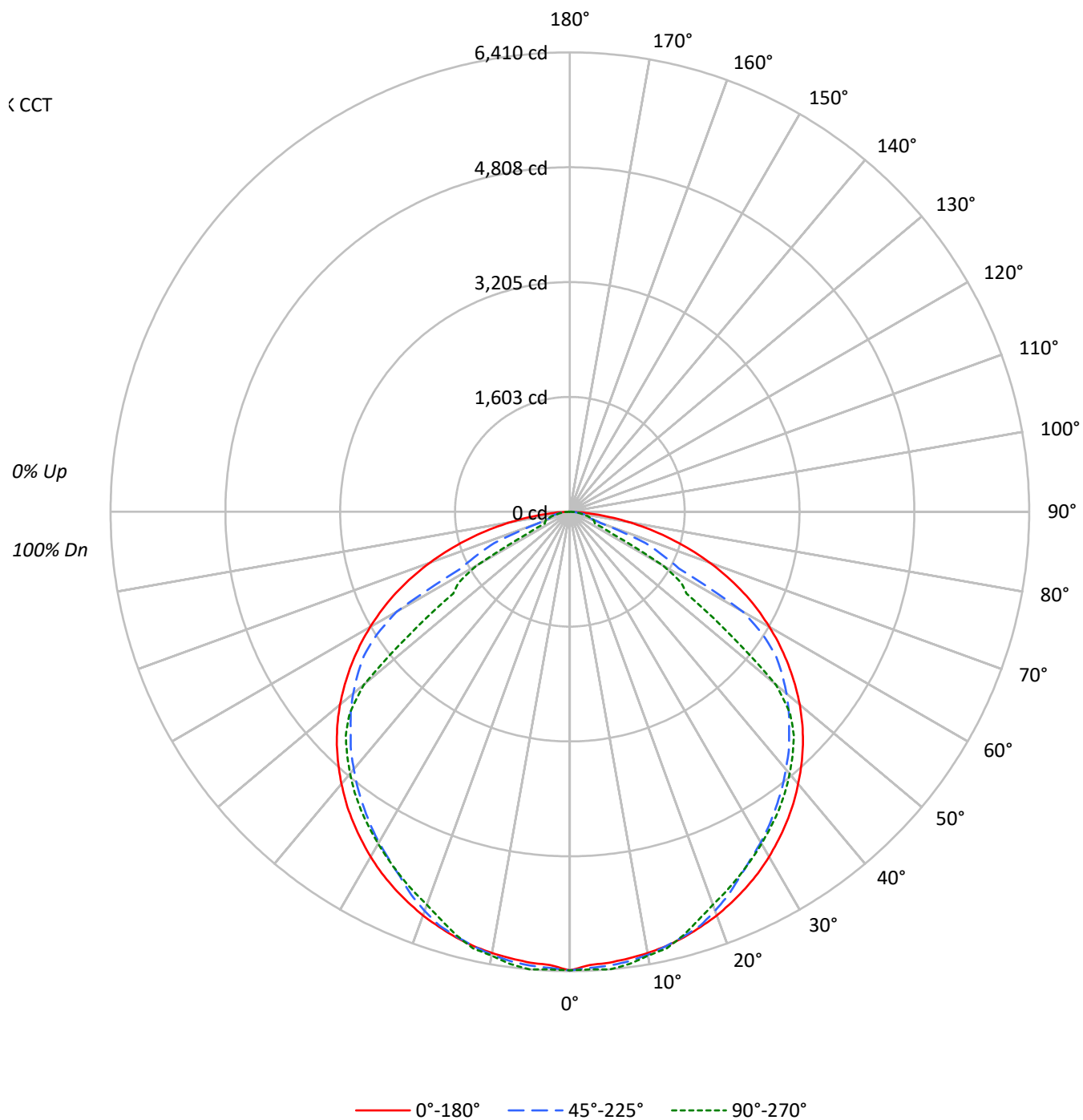
Lumens per Lamp: N/A
Luminaire Lumens: 16681.0 lumens
Efficiency: N/A
Efficacy: 123.7 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.25 / 1.38
Luminous Opening: Rectangular (W 0.21' x L: 7.98' x H: 0')
CIE Type: Direct

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°	41434	41434	41434
5°	41054	41323	41669
10°	41114	41269	41347
15°	41203	41111	41018
20°	41308	40832	40206
25°	41420	40110	40026
30°	41578	39838	40000
35°	41728	39686	40169
40°	41904	39637	40337
45°	42128	39618	40503
50°	42192	39768	37841
55°	42006	39647	22439
60°	41651	36134	19459
65°	40969	21843	5891
70°	39348	8662	6757
75°	36458	7103	6908
80°	31544	7499	6470
85°	22416	7029	6152

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 50°

Luminance: 42192 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	606.1	3.6
10°-20°	1735.7	10.4
20°-30°	2623.0	15.7
30°-40°	3200.3	19.2
40°-50°	3385.3	20.3
50°-60°	2803.9	16.8
60°-70°	1558.7	9.3
70°-80°	631.8	3.8
80°-90°	136.2	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°	4964.7	29.8
0°-40°	8165.0	48.9
0°-60°	14354.2	86.1
0°-90°	16681.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16681.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6399	6399	6399	6399	6399	
5°	6316	6428	6357	6367	6410	601
15°	6146	6241	6132	6128	6119	1736
25°	5797	5839	5614	5578	5602	2674
35°	5279	5214	5020	5040	5081	3304
45°	4600	4364	4326	4379	4423	3546
55°	3721	3468	3512	2410	1988	3324
65°	2674	2451	1426	479	384	2637
75°	1457	812	284	280	276	1539
85°	302	101	95	87	83	379
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6398.6	6398.6	6398.6	6398.6	6398.6
2.5°	6329.6	6440.0	6371.0	6384.8	6390.7
5°	6315.8	6428.2	6357.2	6367.0	6410.4
7.5°	6286.2	6400.6	6325.6	6331.5	6365.1
10°	6252.7	6357.2	6276.3	6266.5	6288.2
12.5°	6207.3	6302.0	6207.3	6211.3	6238.9
15°	6146.2	6240.8	6132.4	6128.4	6118.6
17.5°	6073.2	6162.0	6055.5	5992.4	5970.7
20°	5994.4	6063.4	5925.4	5828.7	5834.6
22.5°	5899.7	5958.9	5785.4	5696.6	5722.3
25°	5797.2	5838.6	5613.8	5578.3	5602.0
27.5°	5684.8	5716.3	5465.9	5458.0	5477.7
30°	5560.6	5572.4	5327.9	5323.9	5349.6
32.5°	5422.5	5402.8	5180.0	5183.9	5217.5
35°	5278.6	5213.5	5020.3	5040.0	5081.4
37.5°	5126.8	5010.4	4862.5	4888.2	4933.5
40°	4957.2	4799.4	4689.0	4728.4	4771.8
42.5°	4783.7	4578.6	4521.4	4558.9	4600.3
45°	4600.3	4363.7	4326.2	4379.4	4422.8
47.5°	4401.1	4152.7	4146.8	4188.2	4168.4
50°	4188.2	3933.8	3947.6	3892.4	3756.3
52.5°	3959.4	3707.0	3734.6	3496.1	2825.6
55°	3720.8	3468.4	3511.8	2409.6	1987.6
57.5°	3476.3	3223.9	3196.3	1843.7	1841.7
60°	3216.1	2975.5	2790.1	1628.7	1502.5
62.5°	2953.8	2717.2	1713.5	1226.5	690.1
65°	2673.8	2451.0	1425.6	479.2	384.5
67.5°	2380.0	2180.8	1141.7	360.8	374.6
70°	2078.3	1900.8	457.5	349.0	356.9
72.5°	1770.7	1467.0	303.7	323.4	323.4
75°	1457.2	812.4	283.9	280.0	276.1
77.5°	1145.6	544.2	248.5	230.7	224.8
80°	845.9	195.2	201.1	179.4	173.5
82.5°	560.0	151.8	143.9	130.1	126.2
85°	301.7	100.6	94.6	86.8	82.8
87.5°	108.5	51.3	51.3	41.4	37.5
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	25.62	27.19	25.98	27.50	27.82	21.61	23.18	21.97	23.49	23.81
	3H	27.62	29.03	28.00	29.36	29.72	21.74	23.15	22.12	23.47	23.83
	4H	28.24	29.55	28.63	29.90	30.28	21.86	23.18	22.26	23.52	23.90
	6H	28.64	29.85	29.05	30.22	30.61	21.97	23.18	22.38	23.55	23.94
	8H	28.75	29.91	29.18	30.30	30.70	22.00	23.16	22.42	23.55	23.95
	12H	28.82	29.93	29.25	30.32	30.75	22.02	23.13	22.45	23.51	23.94
4H	2H	25.75	27.06	26.14	27.41	27.79	22.33	23.65	22.73	24.00	24.38
	3H	27.91	28.99	28.32	29.39	29.79	22.53	23.62	22.94	24.02	24.42
	4H	28.56	29.54	28.99	29.95	30.39	22.68	23.66	23.12	24.08	24.51
	6H	29.01	29.85	29.46	30.30	30.76	22.85	23.70	23.31	24.14	24.60
	8H	29.15	29.94	29.61	30.38	30.85	22.90	23.69	23.36	24.14	24.61
	12H	29.25	29.96	29.73	30.44	30.91	22.95	23.66	23.43	24.14	24.61
8H	4H	28.50	29.29	28.96	29.73	30.20	22.96	23.75	23.42	24.19	24.66
	6H	28.94	29.59	29.44	30.09	30.56	23.16	23.82	23.66	24.31	24.79
	8H	29.09	29.68	29.60	30.19	30.67	23.25	23.84	23.76	24.34	24.83
	12H	29.22	29.74	29.73	30.23	30.80	23.33	23.85	23.84	24.35	24.91
12H	4H	28.47	29.18	28.95	29.66	30.13	22.97	23.68	23.45	24.16	24.63
	6H	28.90	29.49	29.41	30.00	30.48	23.18	23.77	23.69	24.28	24.77
	8H	29.07	29.59	29.58	30.08	30.65	23.30	23.83	23.81	24.32	24.88