

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: P895248

Luminaire Tested: 8TMB-8SL-LVRF-UNV-L850

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895248
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-7)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-8SL-LVRF-UNV-L850
Description: 8000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 80CRI, 5000K C
Light Source: -
Ballast/Driver: -

Summary

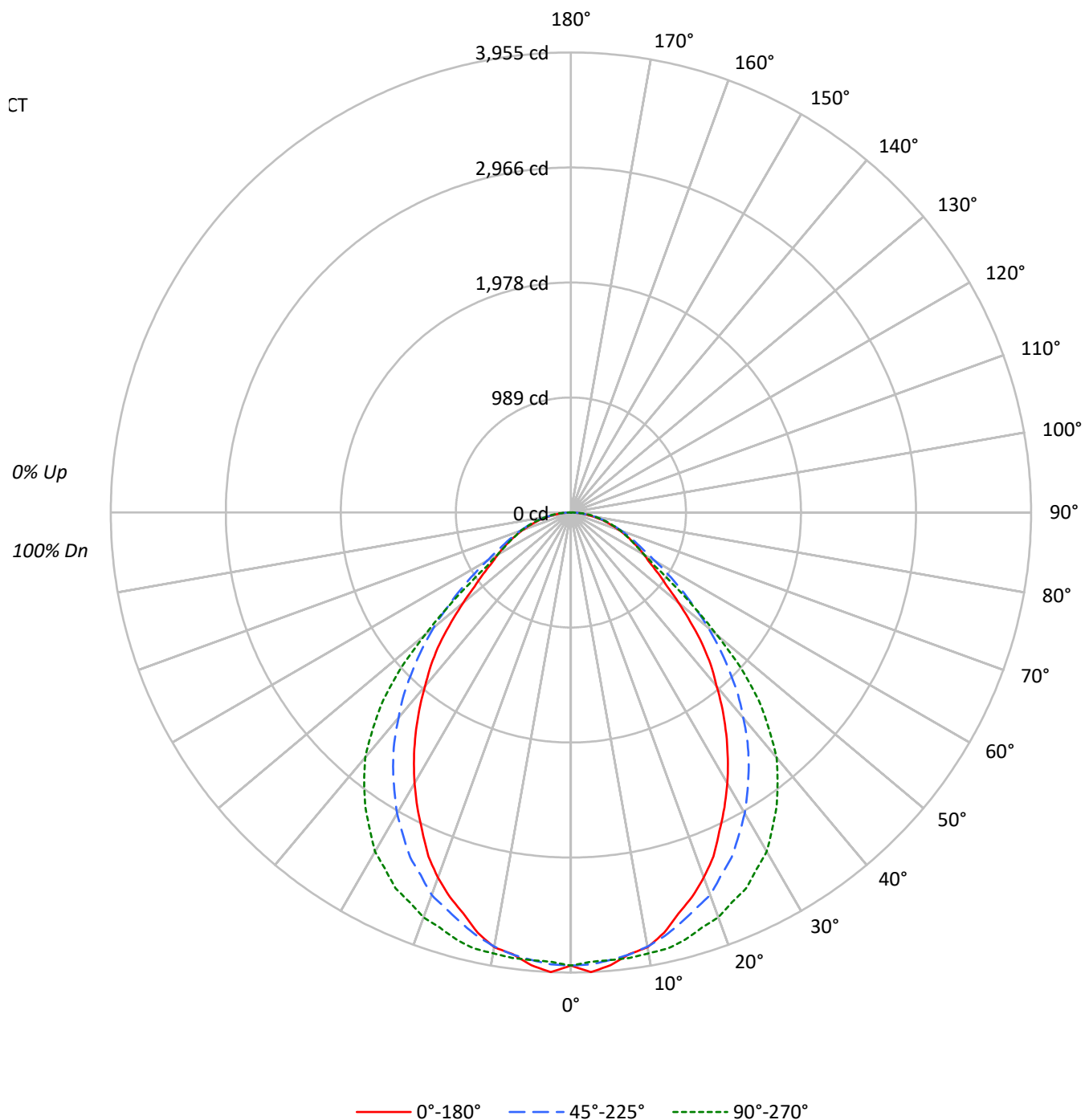
Lumens per Lamp: N/A
Luminaire Lumens: 8094.0 lumens
Efficiency: N/A
Efficacy: 135.8 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.27 / 1.23
Luminous Opening: Rectangular (W 0.38' x L: 7.98' x H: 0')
CIE Type: Direct

Input Watts (W): 59.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 3.8
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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	110	106	102	99	108	104	100	97	100	97	94		96	93	91		92	90	89	87
2	102	94	88	83	99	92	87	82	89	84	80		86	82	79		83	80	77	75
3	94	84	77	71	91	83	76	70	80	74	69		77	72	68		75	71	67	65
4	87	76	68	62	84	74	67	61	72	66	60		70	64	60		68	63	59	57
5	80	68	60	54	78	67	60	54	65	59	53		63	58	53		62	56	52	50
6	75	62	54	48	73	61	54	48	60	53	48		58	52	47		56	51	47	45
7	69	57	49	43	68	56	48	43	55	48	43		53	47	42		52	46	42	40
8	65	52	44	39	63	52	44	39	50	44	39		49	43	38		48	42	38	36
9	61	48	41	35	60	48	40	35	47	40	35		46	39	35		45	39	35	33
10	57	45	37	32	56	44	37	32	43	37	32		42	36	32		42	36	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13818	13818	13818
5°	13914	13756	13756
10°	13674	13652	13863
15°	13108	13413	13963
20°	12610	13214	13986
25°	11829	12805	13954
30°	11010	12239	13790
35°	10079	11544	13351
40°	9024	10675	12738
45°	8008	9664	11453
50°	6663	8507	9033
55°	5675	7166	6565
60°	5145	5921	5188
65°	4846	5186	4829
70°	4559	4811	4706
75°	4248	4582	4498
80°	3890	4221	4344
85°	3379	3709	4865

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 11453 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	368.7	4.6
10°-20°	1037.5	12.8
20°-30°	1506.7	18.6
30°-40°	1677.8	20.7
40°-50°	1482.3	18.3
50°-60°	972.6	12.0
60°-70°	595.6	7.4
70°-80°	346.6	4.3
80°-90°	106.2	1.3
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°	2912.9	36.0
0°-40°	4590.7	56.7
0°-60°	7045.7	87.0
0°-90°	8094.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8094.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3894	3894	3894	3894	3894	
5°	3907	3909	3862	3900	3862	368
15°	3568	3609	3651	3795	3801	1007
25°	3022	3094	3271	3479	3564	1390
35°	2327	2452	2665	2947	3082	1451
45°	1596	1693	1926	2185	2282	1221
55°	917	982	1158	1148	1061	832
65°	577	587	618	600	575	574
75°	310	314	334	340	328	329
85°	83	87	91	103	120	94
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3894.5	3894.5	3894.5	3894.5	3894.5
2.5°	3955.2	3906.6	3888.4	3906.6	3866.1
5°	3906.6	3908.6	3862.1	3900.5	3862.1
7.5°	3829.7	3856.0	3833.7	3892.4	3862.1
10°	3795.2	3797.3	3789.2	3849.9	3847.9
12.5°	3700.0	3706.1	3728.4	3819.5	3839.8
15°	3568.4	3608.9	3651.4	3795.2	3801.3
17.5°	3465.1	3513.7	3570.4	3724.3	3742.6
20°	3339.6	3359.8	3499.5	3635.2	3704.1
22.5°	3199.8	3238.3	3374.0	3556.3	3625.1
25°	3021.6	3094.5	3270.7	3479.3	3564.4
27.5°	2857.6	2942.6	3124.9	3357.8	3457.0
30°	2687.4	2784.7	2987.2	3216.0	3365.9
32.5°	2511.2	2632.8	2825.2	3088.4	3220.1
35°	2327.0	2452.5	2665.2	2946.7	3082.4
37.5°	2142.7	2264.2	2495.0	2796.8	2918.3
40°	1948.2	2067.7	2304.7	2610.5	2750.2
42.5°	1780.2	1883.4	2126.5	2387.7	2517.3
45°	1595.9	1693.1	1926.0	2185.2	2282.4
47.5°	1393.3	1506.7	1733.6	1946.2	1984.7
50°	1207.0	1324.5	1541.2	1664.7	1636.4
52.5°	1043.0	1142.2	1340.7	1393.3	1326.5
55°	917.4	982.2	1158.4	1148.3	1061.2
57.5°	802.0	842.5	992.3	935.6	852.6
60°	725.0	743.2	834.4	781.7	731.1
62.5°	652.1	660.2	708.8	680.5	642.0
65°	577.2	587.3	617.7	599.5	575.2
67.5°	508.3	512.4	540.7	536.7	506.3
70°	439.5	445.5	463.8	471.9	453.6
72.5°	372.6	378.7	396.9	405.0	388.8
75°	309.9	313.9	334.2	340.2	328.1
77.5°	249.1	257.2	269.4	279.5	265.3
80°	190.4	194.4	206.6	218.7	212.6
82.5°	133.7	139.7	147.8	164.0	168.1
85°	83.0	87.1	91.1	103.3	119.5
87.5°	32.4	34.4	40.5	44.6	58.7
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	16.65	18.13	17.02	18.45	18.76	17.30	18.79	17.67	19.10	19.41
	3H	18.25	19.58	18.63	19.91	20.27	18.74	20.07	19.12	20.39	20.76
	4H	18.87	20.11	19.27	20.46	20.84	19.35	20.59	19.75	20.94	21.32
	6H	19.34	20.49	19.75	20.86	21.25	19.83	20.98	20.25	21.35	21.74
	8H	19.49	20.59	19.92	20.98	21.38	20.03	21.12	20.46	21.51	21.91
	12H	19.59	20.64	20.02	21.02	21.45	20.20	21.24	20.63	21.62	22.05
4H	2H	17.28	18.52	17.68	18.87	19.25	17.80	19.04	18.20	19.39	19.77
	3H	19.10	20.12	19.51	20.52	20.93	19.50	20.52	19.91	20.93	21.33
	4H	19.83	20.76	20.27	21.18	21.62	20.25	21.17	20.68	21.59	22.03
	6H	20.43	21.24	20.89	21.68	22.14	20.88	21.69	21.34	22.13	22.59
	8H	20.63	21.38	21.09	21.83	22.29	21.14	21.89	21.60	22.34	22.80
	12H	20.77	21.44	21.25	21.92	22.39	21.36	22.04	21.85	22.51	22.99
8H	4H	20.15	20.90	20.62	21.35	21.82	20.52	21.27	20.98	21.72	22.18
	6H	20.88	21.50	21.37	21.99	22.47	21.29	21.92	21.79	22.41	22.89
	8H	21.15	21.71	21.66	22.22	22.71	21.64	22.20	22.15	22.71	23.20
	12H	21.37	21.86	21.88	22.36	22.92	21.96	22.45	22.47	22.95	23.51
12H	4H	20.19	20.86	20.67	21.34	21.81	20.54	21.21	21.02	21.69	22.16
	6H	20.94	21.50	21.46	22.01	22.50	21.34	21.90	21.85	22.41	22.90
	8H	21.27	21.77	21.78	22.26	22.83	21.75	22.24	22.26	22.73	23.30