

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: P894406

Luminaire Tested: 8TMB-10SL-LVRA-UNV-L835

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894406
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-26)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-10SL-LVRA-UNV-L835
Description: 10000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 80CRI, 3500K CCT
Light Source: -
Ballast/Driver: -

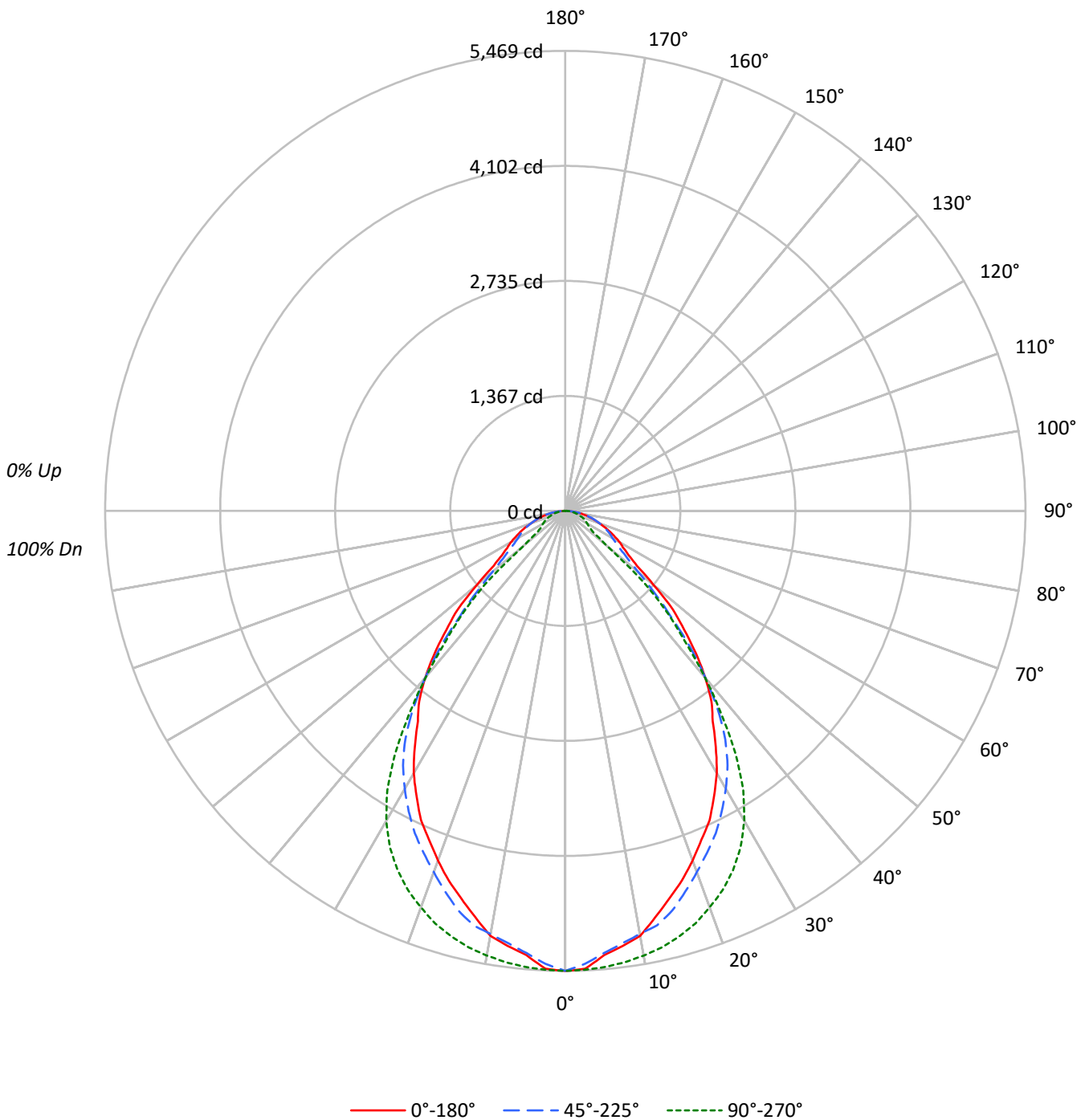
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8876.0 lumens
Efficiency: N/A
Efficacy: 126.8 lumens/watt
Spacing Criteria (0/90/45): 1.02 / 1.16 / 1.12
Luminous Opening: Rectangular (W 0.38' x L: 7.98' x H: 0')
CIE Type: Direct

Input Watts (W): 70
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 5.63
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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88	88	
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78	78	
3	96	87	80	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69	69	
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	62	62	
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	55	55	
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	50	50	
7	73	61	54	48	71	60	53	48	59	52	48	58	52	47	56	51	47	45	45	
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	41	41	
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	38	38	
10	61	49	42	37	60	48	42	37	47	41	37	47	41	37	46	40	37	35	35	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19405	19405	19405
5°	18882	18796	19383
10°	18480	18399	19338
15°	17526	18065	19230
20°	16696	17260	18936
25°	15882	16560	18453
30°	14755	15633	17423
35°	13230	14366	15282
40°	11987	12013	11948
45°	10022	8877	8657
50°	7571	6248	3540
55°	5694	4996	2232
60°	5291	4601	2151
65°	4923	4592	2153
70°	4503	4503	2120
75°	4270	4387	2048
80°	3946	4148	2103
85°	3444	3615	2296

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 10255 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	505.2	5.7
10°-20°	1392.0	15.7
20°-30°	1973.9	22.2
30°-40°	2033.5	22.9
40°-50°	1420.3	16.0
50°-60°	681.5	7.7
60°-70°	478.1	5.4
70°-80°	299.0	3.4
80°-90°	92.5	1.0
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°	3871.0	43.6
0°-40°	5904.5	66.5
0°-60°	8006.4	90.2
0°-90°	8876.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8876.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5469	5469	5469	5469	5469	
5°	5301	5294	5277	5416	5442	502
15°	4771	4806	4918	5059	5235	1344
25°	4057	4098	4230	4516	4714	1855
35°	3054	3138	3317	3386	3528	1925
45°	1997	2044	1769	1679	1725	1539
55°	920	875	808	517	361	863
65°	586	548	547	416	256	581
75°	312	307	320	276	149	328
85°	85	85	89	87	56	95
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5469.0	5469.0	5469.0	5469.0	5469.0
2.5°	5447.9	5431.0	5390.1	5464.8	5459.1
5°	5301.3	5294.2	5277.3	5415.5	5442.2
7.5°	5218.1	5204.0	5184.3	5336.5	5411.2
10°	5129.3	5146.2	5106.8	5246.3	5367.5
12.5°	4946.1	4991.2	5044.7	5153.3	5314.0
15°	4771.3	4806.5	4917.9	5058.8	5235.0
17.5°	4607.8	4648.7	4744.5	4955.9	5143.4
20°	4421.7	4478.1	4571.1	4841.8	5015.1
22.5°	4230.0	4282.2	4399.2	4689.5	4882.6
25°	4056.7	4097.5	4230.0	4516.2	4713.5
27.5°	3826.9	3903.0	4028.5	4304.7	4511.9
30°	3601.4	3666.2	3815.6	4048.2	4252.6
32.5°	3329.3	3423.8	3588.7	3766.3	3936.8
35°	3054.5	3137.6	3316.6	3385.7	3528.1
37.5°	2854.3	2876.9	2978.4	2969.9	3050.2
40°	2587.9	2633.0	2593.6	2487.8	2579.5
42.5°	2300.4	2353.9	2194.7	2072.0	2104.4
45°	1997.3	2043.8	1769.0	1678.8	1725.3
47.5°	1735.1	1730.9	1426.5	1365.8	1301.0
50°	1371.5	1416.6	1131.9	1019.1	641.3
52.5°	1071.3	1088.2	933.1	651.2	421.5
55°	920.4	875.3	807.7	517.3	360.8
57.5°	817.5	761.2	716.0	480.7	329.8
60°	745.6	682.2	648.4	456.7	303.1
62.5°	663.9	614.6	601.9	435.5	279.1
65°	586.4	548.3	546.9	415.8	256.5
67.5°	508.8	487.7	493.3	391.9	231.2
70°	434.1	429.9	434.1	360.8	204.4
72.5°	370.7	366.5	377.8	321.4	174.8
75°	311.5	307.3	320.0	276.3	149.4
77.5°	248.1	250.9	259.4	229.8	125.4
80°	193.1	193.1	203.0	180.4	102.9
82.5°	138.1	139.5	145.2	132.5	80.3
85°	84.6	84.6	88.8	87.4	56.4
87.5°	28.2	32.4	38.1	40.9	28.2
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	15.95	17.30	16.32	17.62	17.93	12.28	13.64	12.65	13.95	14.26
	3H	17.69	18.90	18.07	19.23	19.59	14.26	15.47	14.64	15.80	16.16
	4H	18.36	19.49	18.76	19.84	20.22	14.96	16.09	15.37	16.44	16.82
	6H	18.87	19.91	19.28	20.27	20.67	15.49	16.52	15.90	16.89	17.29
	8H	19.04	20.02	19.47	20.41	20.82	15.67	16.66	16.10	17.05	17.45
	12H	19.15	20.09	19.58	20.47	20.90	15.81	16.75	16.24	17.14	17.57
4H	2H	16.48	17.61	16.88	17.96	18.34	13.90	15.03	14.31	15.38	15.76
	3H	18.46	19.39	18.87	19.79	20.19	16.08	17.01	16.49	17.42	17.82
	4H	19.26	20.10	19.69	20.51	20.96	16.96	17.80	17.40	18.22	18.66
	6H	19.90	20.63	20.36	21.07	21.54	17.61	18.33	18.07	18.77	19.24
	8H	20.12	20.80	20.59	21.25	21.72	17.81	18.49	18.28	18.94	19.41
	12H	20.28	20.88	20.76	21.36	21.83	17.97	18.57	18.46	19.05	19.53
8H	4H	19.54	20.22	20.01	20.67	21.14	17.61	18.29	18.08	18.73	19.20
	6H	20.33	20.88	20.83	21.38	21.86	18.47	19.03	18.97	19.52	20.00
	8H	20.63	21.13	21.15	21.64	22.13	18.80	19.30	19.32	19.81	20.30
	12H	20.86	21.30	21.38	21.80	22.37	19.06	19.50	19.58	20.00	20.57
12H	4H	19.56	20.16	20.05	20.64	21.12	17.68	18.28	18.17	18.77	19.24
	6H	20.38	20.88	20.90	21.39	21.88	18.61	19.11	19.13	19.62	20.11
	8H	20.74	21.18	21.26	21.68	22.25	19.02	19.46	19.54	19.96	20.53