

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: P894522

Luminaire Tested: 8TMB-12SL-LVRA-UNV-L935

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894522
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-12SL-LVRA-UNV-L935
Description: 12000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 90CRI, 3500K CCT
Light Source: -
Ballast/Driver: -

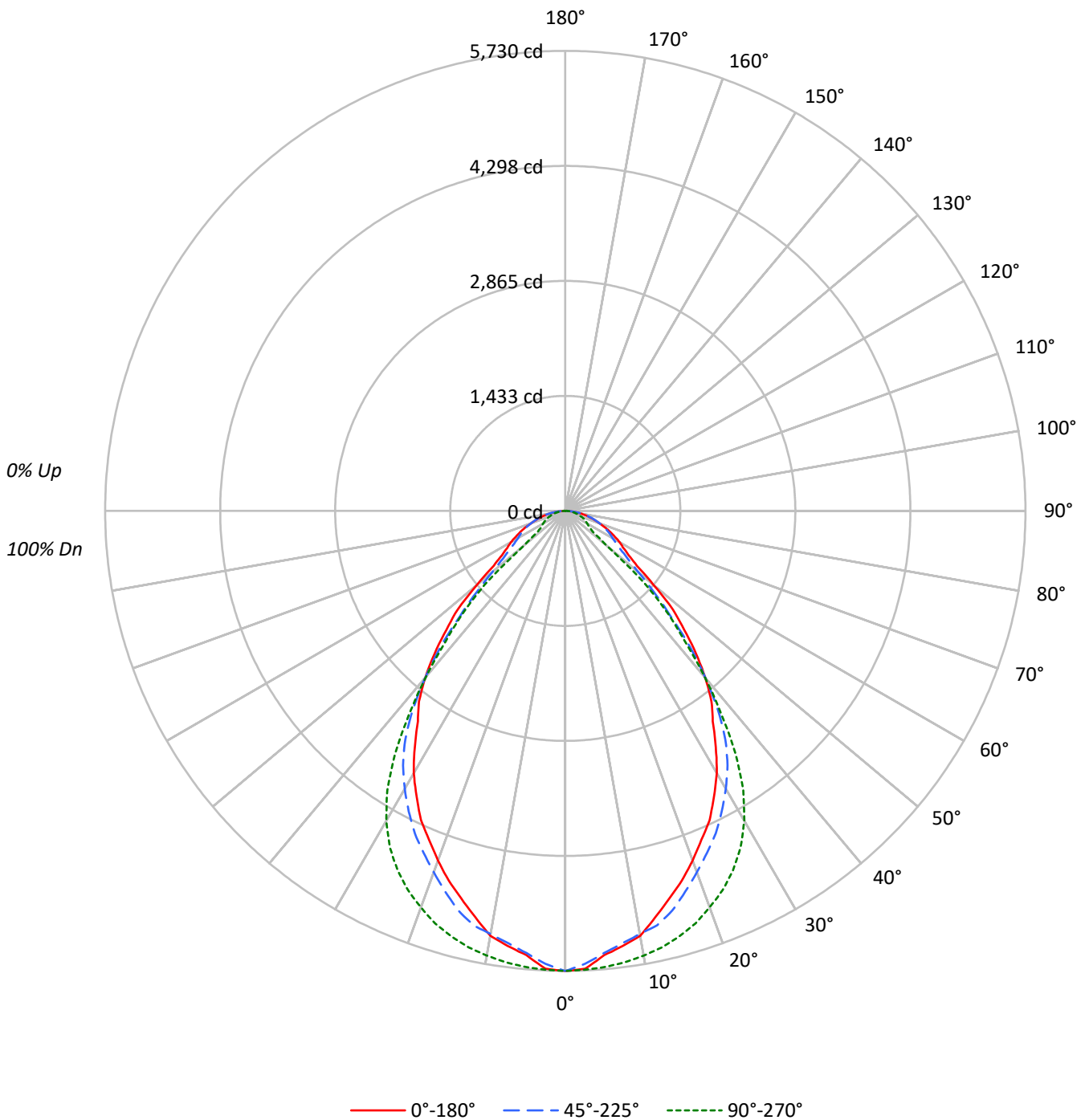
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9300.0 lumens
Efficiency: N/A
Efficacy: 104.7 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): 88.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.996
Total Harmonic Distortion (THDi): 5.53
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	102	100	
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	90	88	
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	80	78	
3	96	87	80	75	94	86	80	75	83	78	73	80	76	72	78	74	71	71	69	
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	63	62	
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	57	55	
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	52	50	
7	73	61	54	48	71	60	53	48	59	52	48	58	52	47	56	51	47	47	45	
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	43	41	
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	40	38	
10	61	49	42	37	60	48	42	37	47	41	37	47	41	37	46	40	37	37	35	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20332	20332	20332
5°	19783	19694	20309
10°	19363	19278	20262
15°	18364	18928	20148
20°	17493	18084	19841
25°	16640	17351	19335
30°	15460	16380	18255
35°	13862	15052	16012
40°	12559	12586	12518
45°	10501	9301	9071
50°	7932	6546	3709
55°	5966	5235	2339
60°	5544	4821	2253
65°	5158	4811	2257
70°	4719	4719	2221
75°	4475	4597	2145
80°	4134	4346	2203
85°	3607	3786	2406

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 10746 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	529.3	5.7
10°-20°	1458.5	15.7
20°-30°	2068.2	22.2
30°-40°	2130.6	22.9
40°-50°	1488.2	16.0
50°-60°	714.1	7.7
60°-70°	501.0	5.4
70°-80°	313.2	3.4
80°-90°	96.9	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°	4056.0	43.6
0°-40°	6186.6	66.5
0°-60°	8388.9	90.2
0°-90°	9300.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9300.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5730	5730	5730	5730	5730	
5°	5554	5547	5529	5674	5702	526
15°	4999	5036	5153	5300	5485	1408
25°	4250	4293	4432	4732	4939	1944
35°	3200	3288	3475	3547	3697	2017
45°	2093	2142	1854	1759	1808	1612
55°	964	917	846	542	378	904
65°	614	574	573	436	269	609
75°	326	322	335	290	156	344
85°	89	89	93	92	59	99
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5730.3	5730.3	5730.3	5730.3	5730.3
2.5°	5708.1	5690.4	5647.6	5725.8	5719.9
5°	5554.5	5547.1	5529.4	5674.1	5702.2
7.5°	5467.4	5452.6	5431.9	5591.4	5669.7
10°	5374.3	5392.1	5350.7	5496.9	5623.9
12.5°	5182.3	5229.6	5285.7	5399.4	5567.8
15°	4999.2	5036.1	5152.8	5300.5	5485.1
17.5°	4827.9	4870.7	4971.2	5192.7	5389.1
20°	4632.9	4692.0	4789.5	5073.1	5254.7
22.5°	4432.1	4486.7	4609.3	4913.6	5115.9
25°	4250.4	4293.3	4432.1	4731.9	4938.7
27.5°	4009.7	4089.5	4220.9	4510.4	4727.5
30°	3773.4	3841.3	3997.9	4241.6	4455.7
32.5°	3488.4	3587.3	3760.1	3946.2	4124.9
35°	3200.4	3287.5	3475.1	3547.4	3696.6
37.5°	2990.7	3014.3	3120.6	3111.8	3196.0
40°	2711.5	2758.8	2717.4	2606.7	2702.7
42.5°	2410.3	2466.4	2299.5	2171.0	2205.0
45°	2092.7	2141.5	1853.5	1759.0	1807.7
47.5°	1818.0	1813.6	1494.6	1431.1	1363.2
50°	1437.0	1484.3	1185.9	1067.8	672.0
52.5°	1122.4	1140.1	977.7	682.3	441.6
55°	964.4	917.1	846.2	542.0	378.1
57.5°	856.6	797.5	750.3	503.6	345.6
60°	781.3	714.8	679.4	478.5	317.5
62.5°	695.6	643.9	630.6	456.4	292.4
65°	614.4	574.5	573.0	435.7	268.8
67.5°	533.2	511.0	516.9	410.6	242.2
70°	454.9	450.4	454.9	378.1	214.1
72.5°	388.4	384.0	395.8	336.7	183.1
75°	326.4	322.0	335.3	289.5	156.5
77.5°	259.9	262.9	271.7	240.7	131.4
80°	202.3	202.3	212.7	189.0	107.8
82.5°	144.7	146.2	152.1	138.8	84.2
85°	88.6	88.6	93.0	91.6	59.1
87.5°	29.5	34.0	39.9	42.8	29.5
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	16.11	17.47	16.48	17.78	18.09	12.44	13.80	12.81	14.11	14.43
	3H	17.85	19.06	18.23	19.39	19.75	14.42	15.63	14.80	15.96	16.32
	4H	18.52	19.65	18.92	20.00	20.38	15.12	16.25	15.53	16.60	16.98
	6H	19.03	20.07	19.44	20.44	20.83	15.65	16.69	16.06	17.06	17.45
	8H	19.20	20.19	19.63	20.58	20.98	15.83	16.82	16.26	17.21	17.61
	12H	19.31	20.25	19.74	20.63	21.06	15.97	16.91	16.40	17.30	17.73
4H	2H	16.64	17.77	17.04	18.12	18.50	14.07	15.19	14.47	15.54	15.93
	3H	18.62	19.55	19.03	19.95	20.36	16.24	17.17	16.66	17.58	17.98
	4H	19.42	20.26	19.86	20.68	21.12	17.12	17.96	17.56	18.38	18.82
	6H	20.07	20.79	20.53	21.23	21.70	17.77	18.49	18.23	18.94	19.40
	8H	20.28	20.96	20.75	21.41	21.88	17.98	18.65	18.44	19.10	19.57
	12H	20.44	21.04	20.92	21.52	21.99	18.13	18.73	18.62	19.22	19.69
8H	4H	19.71	20.38	20.17	20.83	21.30	17.77	18.45	18.24	18.90	19.37
	6H	20.49	21.04	20.99	21.54	22.02	18.63	19.19	19.13	19.68	20.17
	8H	20.79	21.29	21.31	21.80	22.30	18.96	19.46	19.48	19.97	20.47
	12H	21.03	21.47	21.54	21.96	22.53	19.23	19.67	19.74	20.16	20.73
12H	4H	19.72	20.32	20.21	20.80	21.28	17.85	18.45	18.33	18.93	19.40
	6H	20.54	21.04	21.06	21.55	22.05	18.77	19.27	19.29	19.78	20.28
	8H	20.91	21.35	21.42	21.84	22.41	19.19	19.63	19.70	20.12	20.69