

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: P895242

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895242
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-8SL-LVRA-UNV-L935
Description: 8000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 90CRI, 3500K CCT
Light Source: -
Ballast/Driver: -

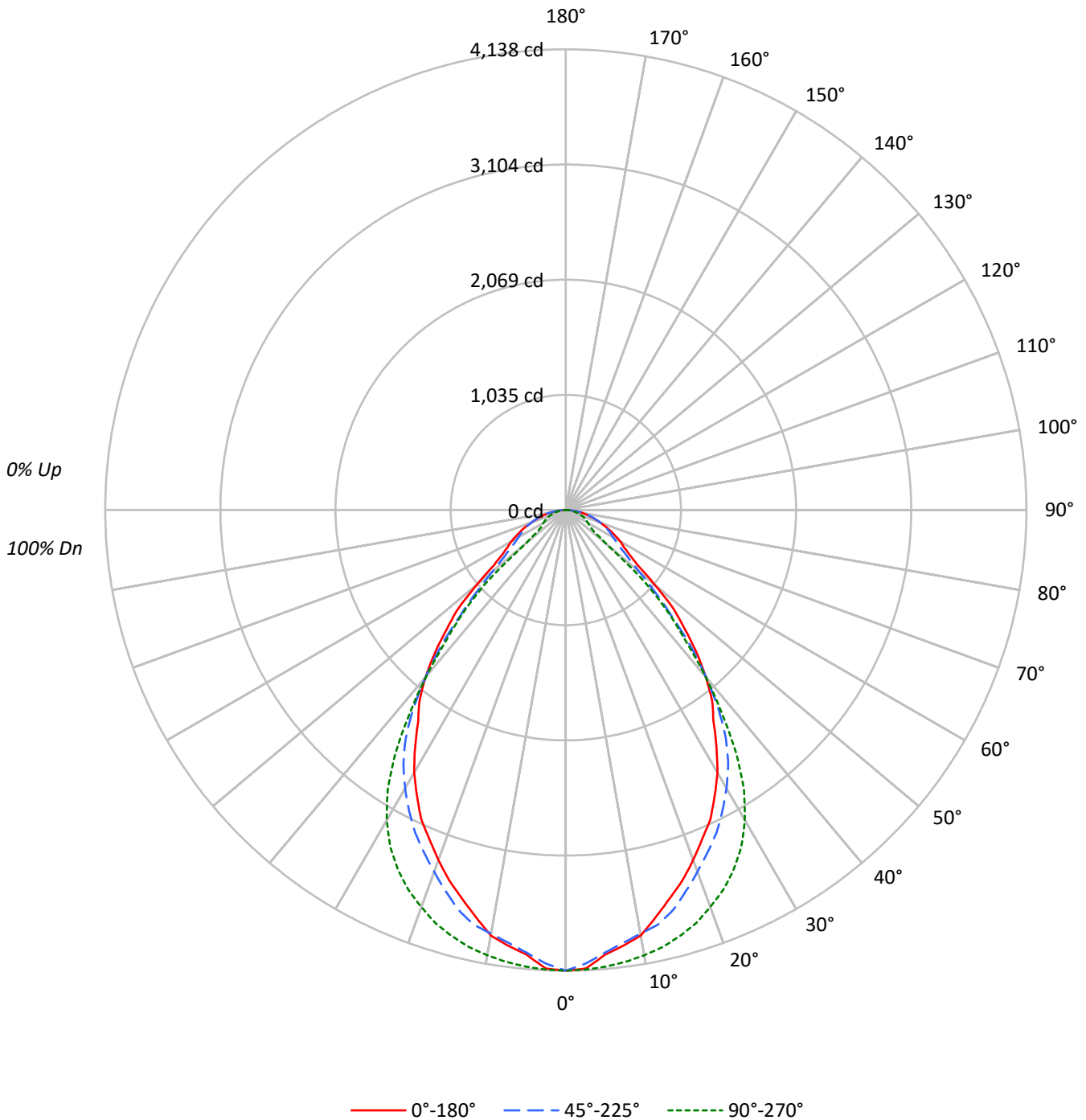
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6715.0 lumens
Efficiency: N/A
Efficacy: 112.7 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): 59.6
Input Voltage (V): 120
Input Current (A_{in}): 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

TEST NUMBER: P895242
CATALOG NUMBER: 8TMB-8SL-LVRA-UNV-L935

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	100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88	88	88
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78	78	78
3	96	87	80	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69	69	69
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	62	62	62
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	55	55	55
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	50	50	50
7	73	61	54	48	71	60	53	48	59	52	48	58	52	47	56	51	47	45	45	45
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	41	41	41
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	38	38	38
10	61	49	42	37	60	48	42	37	47	41	37	47	41	37	46	40	37	35	35	35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14680	14680	14680
5°	14285	14220	14664
10°	13981	13919	14630
15°	13259	13667	14548
20°	12631	13058	14326
25°	12015	12529	13960
30°	11163	11827	13181
35°	10009	10869	11561
40°	9068	9088	9038
45°	7582	6715	6549
50°	5727	4727	2678
55°	4307	3780	1689
60°	4003	3481	1627
65°	3724	3473	1630
70°	3407	3407	1604
75°	3231	3319	1549
80°	2985	3138	1590
85°	2605	2736	1738

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 7759 cd/sqm



TEST NUMBER: P895242
 CATALOG NUMBER: 8TMB-8SL-LVRA-UNV-L935

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	382.2	5.7
10°-20°	1053.1	15.7
20°-30°	1493.3	22.2
30°-40°	1538.4	22.9
40°-50°	1074.5	16.0
50°-60°	515.6	7.7
60°-70°	361.7	5.4
70°-80°	226.2	3.4
80°-90°	69.9	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°	2928.6	43.6
0°-40°	4467.0	66.5
0°-60°	6057.1	90.2
0°-90°	6715.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6715.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4138	4138	4138	4138	4138	
5°	4011	4005	3992	4097	4117	380
15°	3610	3636	3720	3827	3960	1016
25°	3069	3100	3200	3417	3566	1403
35°	2311	2374	2509	2561	2669	1456
45°	1511	1546	1338	1270	1305	1164
55°	696	662	611	391	273	653
65°	444	415	414	315	194	440
75°	236	232	242	209	113	248
85°	64	64	67	66	43	71
90°	0	0	0	0	0	



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CATALOG NUMBER: 8TMB-8SL-LVRA-UNV-L935

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4137.5	4137.5	4137.5	4137.5	4137.5
2.5°	4121.5	4108.7	4077.8	4134.3	4130.0
5°	4010.6	4005.3	3992.5	4097.0	4117.2
7.5°	3947.7	3937.0	3922.1	4037.3	4093.8
10°	3880.5	3893.3	3863.4	3969.0	4060.7
12.5°	3741.9	3776.0	3816.5	3898.6	4020.2
15°	3609.6	3636.3	3720.5	3827.2	3960.5
17.5°	3485.9	3516.9	3589.4	3749.3	3891.2
20°	3345.2	3387.8	3458.2	3663.0	3794.1
22.5°	3200.2	3239.6	3328.1	3547.8	3693.9
25°	3069.0	3099.9	3200.2	3416.6	3565.9
27.5°	2895.2	2952.8	3047.7	3256.7	3413.4
30°	2724.6	2773.6	2886.7	3062.6	3217.2
32.5°	2518.8	2590.2	2715.0	2849.3	2978.4
35°	2310.8	2373.7	2509.2	2561.4	2669.1
37.5°	2159.4	2176.5	2253.2	2246.8	2307.6
40°	1957.8	1992.0	1962.1	1882.1	1951.4
42.5°	1740.3	1780.8	1660.3	1567.6	1592.1
45°	1511.0	1546.2	1338.3	1270.0	1305.2
47.5°	1312.7	1309.5	1079.2	1033.3	984.3
50°	1037.6	1071.7	856.3	771.0	485.2
52.5°	810.4	823.2	705.9	492.7	318.8
55°	696.3	662.2	611.0	391.4	273.0
57.5°	618.5	575.8	541.7	363.6	249.5
60°	564.1	516.1	490.5	345.5	229.3
62.5°	502.3	464.9	455.3	329.5	211.1
65°	443.6	414.8	413.7	314.6	194.1
67.5°	385.0	369.0	373.2	296.4	174.9
70°	328.4	325.2	328.4	273.0	154.6
72.5°	280.5	277.3	285.8	243.1	132.2
75°	235.7	232.5	242.1	209.0	113.0
77.5°	187.7	189.8	196.2	173.8	94.9
80°	146.1	146.1	153.6	136.5	77.8
82.5°	104.5	105.6	109.8	100.2	60.8
85°	64.0	64.0	67.2	66.1	42.7
87.5°	21.3	24.5	28.8	30.9	21.3
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	14.98	16.33	15.35	16.65	16.96	11.31	12.67	11.68	12.98	13.29
	3H	16.72	17.93	17.10	18.26	18.62	13.29	14.50	13.67	14.82	15.19
	4H	17.39	18.52	17.79	18.87	19.25	13.99	15.12	14.39	15.47	15.85
	6H	17.90	18.94	18.31	19.31	19.70	14.52	15.55	14.93	15.92	16.32
	8H	18.07	19.05	18.50	19.44	19.85	14.70	15.69	15.13	16.08	16.48
	12H	18.18	19.12	18.61	19.50	19.93	14.84	15.78	15.27	16.17	16.60
4H	2H	15.51	16.64	15.91	16.99	17.37	12.93	14.06	13.34	14.41	14.79
	3H	17.49	18.42	17.90	18.82	19.22	15.11	16.04	15.52	16.45	16.85
	4H	18.29	19.13	18.72	19.54	19.99	15.99	16.83	16.43	17.25	17.69
	6H	18.93	19.66	19.40	20.10	20.57	16.64	17.36	17.10	17.80	18.27
	8H	19.15	19.83	19.62	20.28	20.75	16.84	17.52	17.31	17.97	18.44
	12H	19.31	19.91	19.79	20.39	20.86	17.00	17.60	17.49	18.08	18.56
8H	4H	18.57	19.25	19.04	19.70	20.17	16.64	17.32	17.11	17.76	18.23
	6H	19.36	19.91	19.86	20.41	20.89	17.50	18.06	18.00	18.55	19.03
	8H	19.66	20.16	20.18	20.67	21.16	17.83	18.33	18.35	18.84	19.33
	12H	19.89	20.34	20.41	20.83	21.40	18.09	18.53	18.61	19.03	19.60
12H	4H	18.59	19.19	19.08	19.67	20.15	16.71	17.31	17.20	17.80	18.27
	6H	19.41	19.91	19.93	20.42	20.91	17.64	18.14	18.16	18.65	19.14
	8H	19.77	20.22	20.29	20.71	21.28	18.05	18.49	18.57	18.99	19.56