

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: P895238

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895238
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-L835
Description: 8000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 80CRI, 3500K CCT
Light Source: -
Ballast/Driver: -

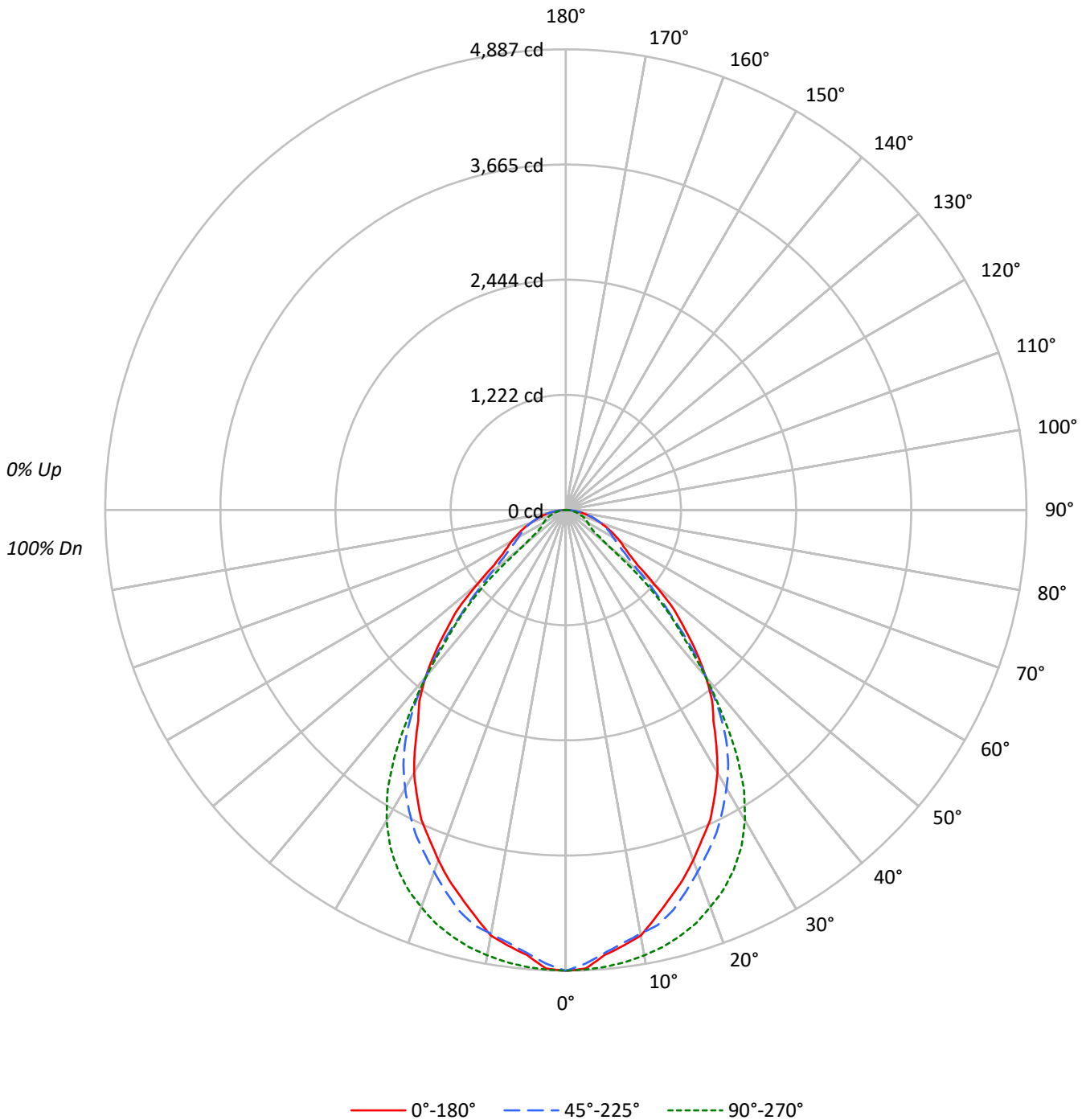
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7932.0 lumens
Efficiency: N/A
Efficacy: 133.1 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

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17341	17341	17341
5°	16873	16797	17322
10°	16515	16442	17282
15°	15662	16143	17185
20°	14920	15424	16923
25°	14192	14799	16490
30°	13186	13970	15570
35°	11823	12838	13657
40°	10712	10735	10677
45°	8956	7932	7736
50°	6765	5583	3163
55°	5088	4465	1995
60°	4728	4112	1922
65°	4399	4103	1925
70°	4025	4025	1894
75°	3817	3919	1830
80°	3527	3707	1880
85°	3078	3232	2052

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 9165 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	451.5	5.7
10°-20°	1243.9	15.7
20°-30°	1763.9	22.2
30°-40°	1817.2	22.9
40°-50°	1269.3	16.0
50°-60°	609.0	7.7
60°-70°	427.3	5.4
70°-80°	267.2	3.4
80°-90°	82.6	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°	3459.3	43.6
0°-40°	5276.6	66.5
0°-60°	7154.9	90.2
0°-90°	7932.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7932.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4887	4887	4887	4887	4887	
5°	4738	4731	4716	4840	4863	448
15°	4264	4295	4395	4521	4678	1201
25°	3625	3662	3780	4036	4212	1658
35°	2730	2804	2964	3026	3153	1720
45°	1785	1826	1581	1500	1542	1375
55°	822	782	722	462	322	771
65°	524	490	489	372	229	519
75°	278	275	286	247	134	293
85°	76	76	79	78	50	84
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4887.4	4887.4	4887.4	4887.4	4887.4
2.5°	4868.5	4853.4	4816.8	4883.6	4878.5
5°	4737.5	4731.2	4716.1	4839.5	4863.4
7.5°	4663.1	4650.6	4632.9	4769.0	4835.7
10°	4583.8	4598.9	4563.6	4688.3	4796.7
12.5°	4420.0	4460.3	4508.2	4605.2	4748.8
15°	4263.8	4295.3	4394.8	4520.8	4678.3
17.5°	4117.7	4154.3	4239.9	4428.9	4596.4
20°	3951.5	4001.8	4085.0	4326.8	4481.8
22.5°	3780.1	3826.8	3931.3	4190.8	4363.4
25°	3625.2	3661.7	3780.1	4035.9	4212.2
27.5°	3419.9	3487.9	3600.0	3846.9	4032.1
30°	3218.4	3276.3	3409.8	3617.7	3800.3
32.5°	2975.2	3059.6	3207.0	3365.7	3518.1
35°	2729.6	2803.9	2963.9	3025.6	3152.9
37.5°	2550.7	2570.9	2661.6	2654.0	2725.8
40°	2312.7	2353.0	2317.7	2223.2	2305.1
42.5°	2055.7	2103.6	1961.2	1851.7	1880.6
45°	1784.9	1826.5	1580.8	1500.2	1541.8
47.5°	1550.6	1546.8	1274.7	1220.6	1162.6
50°	1225.6	1265.9	1011.5	910.7	573.1
52.5°	957.3	972.4	833.9	581.9	376.6
55°	822.5	782.2	721.8	462.3	322.5
57.5°	730.6	680.2	639.9	429.5	294.8
60°	666.3	609.7	579.4	408.1	270.8
62.5°	593.3	549.2	537.9	389.2	249.4
65°	524.0	490.0	488.7	371.6	229.3
67.5°	454.7	435.8	440.9	350.2	206.6
70°	388.0	384.2	388.0	322.5	182.6
72.5°	331.3	327.5	337.6	287.2	156.2
75°	278.4	274.6	285.9	246.9	133.5
77.5°	221.7	224.2	231.8	205.3	112.1
80°	172.6	172.6	181.4	161.2	92.0
82.5°	123.4	124.7	129.7	118.4	71.8
85°	75.6	75.6	79.4	78.1	50.4
87.5°	25.2	29.0	34.0	36.5	25.2
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	15.56	16.91	15.92	17.23	17.54	11.89	13.24	12.26	13.56	13.87
	3H	17.30	18.50	17.68	18.83	19.20	13.87	15.07	14.25	15.40	15.77
	4H	17.97	19.10	18.37	19.45	19.83	14.57	15.70	14.97	16.05	16.43
	6H	18.48	19.51	18.89	19.88	20.28	15.09	16.13	15.51	16.50	16.90
	8H	18.65	19.63	19.08	20.02	20.43	15.28	16.27	15.71	16.66	17.06
	12H	18.76	19.70	19.19	20.08	20.51	15.42	16.36	15.85	16.74	17.17
4H	2H	16.09	17.22	16.49	17.57	17.95	13.51	14.64	13.92	14.99	15.37
	3H	18.07	19.00	18.48	19.40	19.80	15.69	16.62	16.10	17.03	17.43
	4H	18.87	19.70	19.30	20.12	20.57	16.57	17.41	17.01	17.83	18.27
	6H	19.51	20.24	19.97	20.68	21.15	17.21	17.94	17.68	18.38	18.85
	8H	19.73	20.41	20.20	20.86	21.33	17.42	18.10	17.89	18.55	19.02
	12H	19.89	20.49	20.37	20.97	21.44	17.58	18.18	18.07	18.66	19.14
8H	4H	19.15	19.83	19.62	20.28	20.75	17.22	17.90	17.69	18.34	18.81
	6H	19.94	20.49	20.44	20.99	21.47	18.08	18.64	18.58	19.13	19.61
	8H	20.24	20.74	20.76	21.25	21.74	18.41	18.91	18.93	19.42	19.91
	12H	20.47	20.91	20.99	21.41	21.98	18.67	19.11	19.19	19.61	20.18
12H	4H	19.17	19.77	19.66	20.25	20.73	17.29	17.89	17.78	18.37	18.85
	6H	19.99	20.49	20.51	21.00	21.49	18.22	18.72	18.74	19.23	19.72
	8H	20.35	20.79	20.87	21.29	21.86	18.63	19.07	19.15	19.57	20.14