

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: P894414

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894414
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-10SL-LVRF-UNV-L835
Description: 10000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 80CRI, 3500K (C)
Light Source: -
Ballast/Driver: -

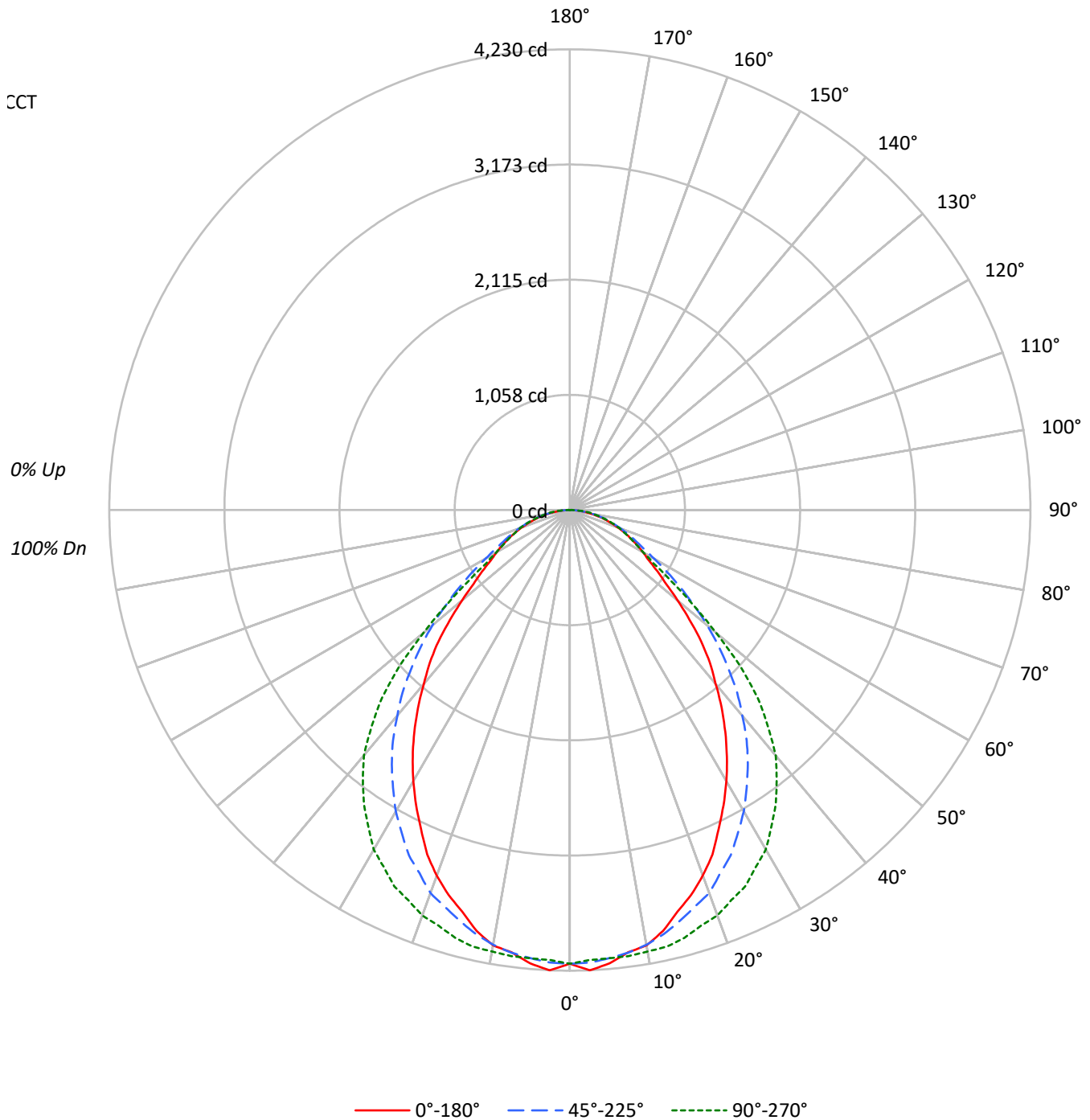
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8657.0 lumens
Efficiency: N/A
Efficacy: 123.7 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): 70
Input Voltage (V): 120
Input Current (Ain): 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		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°	14779	14779	14779
5°	14882	14712	14712
10°	14625	14601	14828
15°	14020	14346	14935
20°	13487	14133	14959
25°	12652	13695	14925
30°	11777	13090	14749
35°	10780	12347	14280
40°	9652	11417	13624
45°	8565	10336	12250
50°	7126	9099	9661
55°	6070	7664	7021
60°	5503	6333	5549
65°	5183	5547	5165
70°	4876	5146	5033
75°	4543	4900	4810
80°	4160	4514	4646
85°	3615	3969	5203

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 12250 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	394.4	4.6
10°-20°	1109.7	12.8
20°-30°	1611.5	18.6
30°-40°	1794.5	20.7
40°-50°	1585.4	18.3
50°-60°	1040.3	12.0
60°-70°	637.0	7.4
70°-80°	370.7	4.3
80°-90°	113.6	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°	3115.6	36.0
0°-40°	4910.1	56.7
0°-60°	7535.7	87.0
0°-90°	8657.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8657.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4165	4165	4165	4165	4165	
5°	4178	4180	4131	4172	4131	394
15°	3817	3860	3905	4059	4066	1077
25°	3232	3310	3498	3721	3812	1487
35°	2489	2623	2850	3152	3297	1552
45°	1707	1811	2060	2337	2441	1306
55°	981	1050	1239	1228	1135	890
65°	617	628	661	641	615	614
75°	331	336	357	364	351	352
85°	89	93	98	110	128	100
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4165.4	4165.4	4165.4	4165.4	4165.4
2.5°	4230.3	4178.3	4158.9	4178.3	4135.0
5°	4178.3	4180.5	4130.7	4171.8	4130.7
7.5°	4096.0	4124.2	4100.4	4163.2	4130.7
10°	4059.2	4061.4	4052.7	4117.7	4115.5
12.5°	3957.4	3963.9	3987.7	4085.2	4106.9
15°	3816.6	3859.9	3905.4	4059.2	4065.7
17.5°	3706.1	3758.1	3818.8	3983.4	4002.9
20°	3571.8	3593.5	3743.0	3888.1	3961.7
22.5°	3422.4	3463.5	3608.7	3803.6	3877.3
25°	3231.8	3309.8	3498.2	3721.3	3812.3
27.5°	3056.3	3147.3	3342.2	3591.3	3697.5
30°	2874.4	2978.3	3195.0	3439.7	3600.0
32.5°	2685.9	2815.9	3021.7	3303.3	3444.1
35°	2488.8	2623.1	2850.5	3151.6	3296.8
37.5°	2291.7	2421.7	2668.6	2991.3	3121.3
40°	2083.8	2211.6	2465.0	2792.1	2941.5
42.5°	1904.0	2014.4	2274.4	2553.8	2692.4
45°	1706.9	1810.8	2059.9	2337.2	2441.2
47.5°	1490.3	1611.6	1854.2	2081.6	2122.7
50°	1291.0	1416.6	1648.4	1780.5	1750.2
52.5°	1115.5	1221.7	1433.9	1490.3	1418.8
55°	981.2	1050.5	1239.0	1228.2	1135.0
57.5°	857.8	901.1	1061.4	1000.7	911.9
60°	775.5	794.9	892.4	836.1	782.0
62.5°	697.5	706.1	758.1	727.8	686.6
65°	617.3	628.2	660.7	641.2	615.2
67.5°	543.7	548.0	578.3	574.0	541.5
70°	470.0	476.5	496.0	504.7	485.2
72.5°	398.6	405.1	424.5	433.2	415.9
75°	331.4	335.7	357.4	363.9	350.9
77.5°	266.4	275.1	288.1	298.9	283.8
80°	203.6	207.9	220.9	233.9	227.4
82.5°	143.0	149.5	158.1	175.5	179.8
85°	88.8	93.1	97.5	110.5	127.8
87.5°	34.7	36.8	43.3	47.7	62.8
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	16.89	18.37	17.25	18.68	19.00	17.54	19.02	17.90	19.33	19.65
	3H	18.49	19.81	18.87	20.14	20.50	18.97	20.30	19.35	20.63	20.99
	4H	19.10	20.35	19.50	20.70	21.08	19.58	20.82	19.98	21.17	21.55
	6H	19.58	20.72	19.99	21.09	21.48	20.07	21.21	20.48	21.58	21.97
	8H	19.73	20.82	20.15	21.21	21.61	20.26	21.35	20.69	21.74	22.15
	12H	19.83	20.87	20.26	21.25	21.68	20.43	21.48	20.86	21.86	22.29
4H	2H	17.51	18.75	17.91	19.10	19.48	18.03	19.27	18.43	19.62	20.00
	3H	19.33	20.36	19.74	20.76	21.16	19.73	20.76	20.14	21.16	21.56
	4H	20.07	20.99	20.50	21.41	21.85	20.48	21.41	20.92	21.82	22.26
	6H	20.67	21.47	21.12	21.91	22.37	21.12	21.92	21.58	22.37	22.83
	8H	20.86	21.61	21.33	22.06	22.53	21.37	22.13	21.84	22.57	23.04
	12H	21.00	21.68	21.49	22.16	22.63	21.60	22.27	22.08	22.75	23.22
8H	4H	20.39	21.14	20.85	21.58	22.05	20.75	21.51	21.22	21.95	22.42
	6H	21.11	21.73	21.61	22.22	22.70	21.53	22.15	22.03	22.64	23.12
	8H	21.38	21.94	21.90	22.45	22.94	21.87	22.43	22.39	22.94	23.43
	12H	21.60	22.10	22.11	22.59	23.16	22.19	22.69	22.70	23.18	23.75
12H	4H	20.42	21.09	20.90	21.57	22.04	20.77	21.44	21.26	21.92	22.40
	6H	21.17	21.74	21.69	22.25	22.73	21.57	22.13	22.09	22.65	23.13
	8H	21.51	22.00	22.02	22.50	23.06	21.98	22.48	22.49	22.97	23.53