

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: P894403

Luminaire Tested: 8TMB-10SL-LVR-UNV-L940

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894403
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-8)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-10SL-LVR-UNV-L940
Description: 10000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER, 90CRI, 4000K CCT
Light Source: -
Ballast/Driver: -

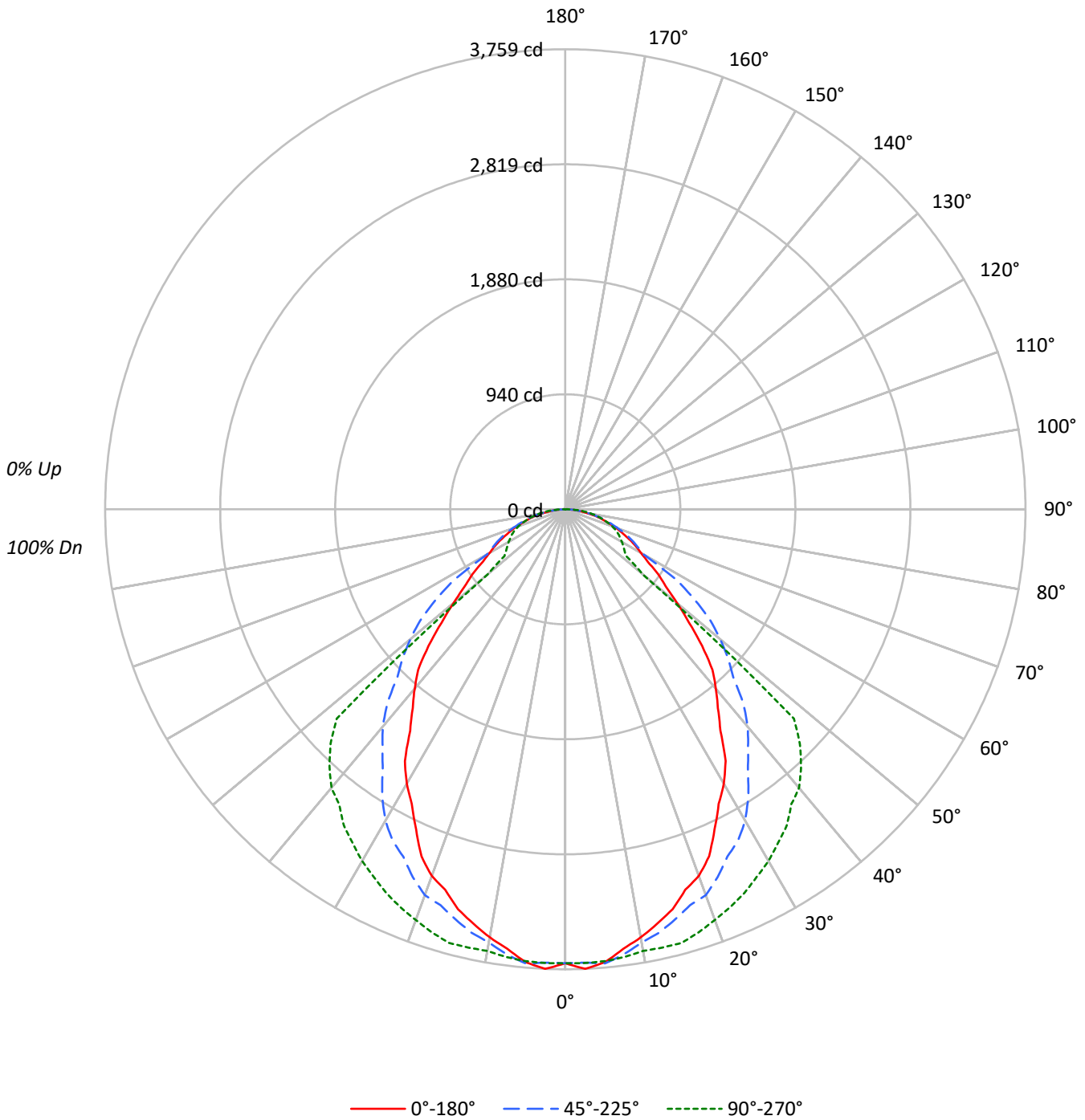
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7916.1 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.32 / 1.27
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	102	100	
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87	87	
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	75	75	
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	65	65	
4	87	76	68	62	84	74	67	61	72	66	61	70	64	60	68	63	59	57	57	
5	80	68	60	54	78	67	60	54	65	59	53	63	58	53	62	57	52	50	50	
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	56	51	47	45	45	
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	40	40	
8	65	52	44	39	63	52	44	39	50	43	39	49	43	38	48	42	38	36	36	
9	61	48	40	35	59	48	40	35	47	40	35	45	39	35	44	39	35	33	33	
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30	30	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13162	13162	13162
5°	13232	13266	13199
10°	12798	12948	13201
15°	12429	12742	13473
20°	12039	12669	13484
25°	11296	12260	13543
30°	10610	12039	13599
35°	9568	11259	13663
40°	8863	10741	13759
45°	7928	9735	13603
50°	6578	9119	4570
55°	5731	8005	3657
60°	5068	5216	3792
65°	4819	5073	4024
70°	4520	4796	4245
75°	4207	4518	4364
80°	3833	4258	4569
85°	3395	3623	4934

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 13603 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	351.8	4.4
10°-20°	989.8	12.5
20°-30°	1456.0	18.4
30°-40°	1665.1	21.0
40°-50°	1576.7	19.9
50°-60°	868.7	11.0
60°-70°	557.7	7.0
70°-80°	344.2	4.3
80°-90°	105.9	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°	2797.6	35.3
0°-40°	4462.7	56.4
0°-60°	6908.1	87.3
0°-90°	7916.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7916.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3710	3710	3710	3710	3710	
5°	3715	3745	3725	3725	3706	348
15°	3384	3425	3469	3651	3668	950
25°	2885	3014	3132	3336	3459	1329
35°	2209	2398	2599	2976	3154	1396
45°	1580	1730	1940	2489	2711	1208
55°	926	972	1294	667	591	828
65°	574	593	604	538	479	568
75°	307	313	330	347	318	326
85°	83	83	89	102	121	93
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3709.5	3709.5	3709.5	3709.5	3709.5
2.5°	3758.7	3768.2	3707.6	3705.7	3711.3
5°	3715.1	3745.4	3724.6	3724.6	3705.7
7.5°	3622.3	3673.5	3667.8	3711.3	3690.5
10°	3552.2	3593.9	3593.9	3707.6	3664.0
12.5°	3468.8	3516.2	3542.7	3662.1	3667.8
15°	3383.6	3425.3	3468.8	3650.7	3667.8
17.5°	3260.5	3336.2	3391.2	3569.3	3624.2
20°	3188.5	3233.9	3355.2	3499.2	3571.2
22.5°	3069.1	3135.4	3252.9	3413.9	3520.0
25°	2885.3	3014.2	3131.6	3336.2	3459.4
27.5°	2714.8	2811.5	3054.0	3269.9	3387.4
30°	2589.8	2665.6	2938.4	3173.3	3319.2
32.5°	2438.2	2561.4	2783.0	3078.6	3233.9
35°	2209.0	2398.4	2599.3	2976.3	3154.4
37.5°	2048.0	2178.7	2451.5	2870.2	3035.0
40°	1913.5	2032.8	2318.9	2737.6	2970.6
42.5°	1778.9	1875.6	2152.2	2639.1	2851.2
45°	1580.0	1729.7	1940.0	2489.4	2711.0
47.5°	1371.6	1530.8	1801.7	2362.5	2533.0
50°	1191.6	1318.6	1652.0	2110.5	827.9
52.5°	1034.4	1151.9	1492.9	763.5	625.2
55°	926.4	971.9	1294.0	666.9	591.1
57.5°	797.6	871.5	1085.6	634.7	560.8
60°	714.2	746.4	735.1	602.5	534.3
62.5°	647.9	670.7	666.9	570.2	503.9
65°	574.0	593.0	604.3	538.0	479.3
67.5°	500.2	517.2	534.3	498.3	445.2
70°	435.7	447.1	462.3	450.9	409.2
72.5°	369.4	382.7	392.2	401.6	361.9
75°	306.9	312.6	329.6	346.7	318.3
77.5°	250.1	255.8	267.1	286.1	270.9
80°	187.6	193.2	208.4	223.6	223.6
82.5°	132.6	136.4	145.9	166.7	176.2
85°	83.4	83.4	89.0	102.3	121.2
87.5°	32.2	32.2	37.9	45.5	60.6
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	16.90	18.39	17.27	18.70	19.02	14.71	16.19	15.07	16.50	16.82
	3H	18.43	19.76	18.81	20.09	20.45	17.04	18.36	17.42	18.69	19.05
	4H	19.02	20.27	19.42	20.62	20.99	17.99	19.23	18.39	19.58	19.96
	6H	19.48	20.63	19.89	20.99	21.39	18.77	19.92	19.18	20.29	20.68
	8H	19.62	20.72	20.05	21.11	21.51	19.08	20.18	19.51	20.57	20.97
	12H	19.72	20.77	20.15	21.15	21.58	19.33	20.38	19.76	20.76	21.19
4H	2H	17.46	18.70	17.86	19.05	19.43	15.81	17.05	16.21	17.40	17.78
	3H	19.23	20.26	19.64	20.66	21.06	18.26	19.29	18.67	19.69	20.09
	4H	19.95	20.87	20.38	21.29	21.73	19.32	20.25	19.76	20.66	21.10
	6H	20.53	21.34	20.99	21.78	22.24	20.21	21.02	20.67	21.46	21.92
	8H	20.72	21.47	21.19	21.92	22.39	20.56	21.32	21.03	21.76	22.23
	12H	20.86	21.53	21.34	22.01	22.48	20.85	21.52	21.33	22.00	22.47
8H	4H	20.25	21.01	20.72	21.45	21.92	19.71	20.46	20.17	20.91	21.38
	6H	20.97	21.59	21.46	22.08	22.56	20.75	21.37	21.24	21.86	22.34
	8H	21.23	21.79	21.74	22.30	22.79	21.19	21.75	21.71	22.26	22.75
	12H	21.44	21.93	21.95	22.43	22.99	21.57	22.07	22.08	22.57	23.13
12H	4H	20.29	20.96	20.77	21.44	21.91	19.74	20.42	20.23	20.90	21.37
	6H	21.03	21.59	21.55	22.10	22.59	20.81	21.37	21.32	21.88	22.37
	8H	21.35	21.85	21.86	22.34	22.91	21.32	21.82	21.83	22.31	22.87