

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: P894400

Luminaire Tested: 8TMB-10SL-LVR-UNV-L850

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894400
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-L850
Description: 10000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER, 80CRI, 5000K CCT
Light Source: -
Ballast/Driver: -

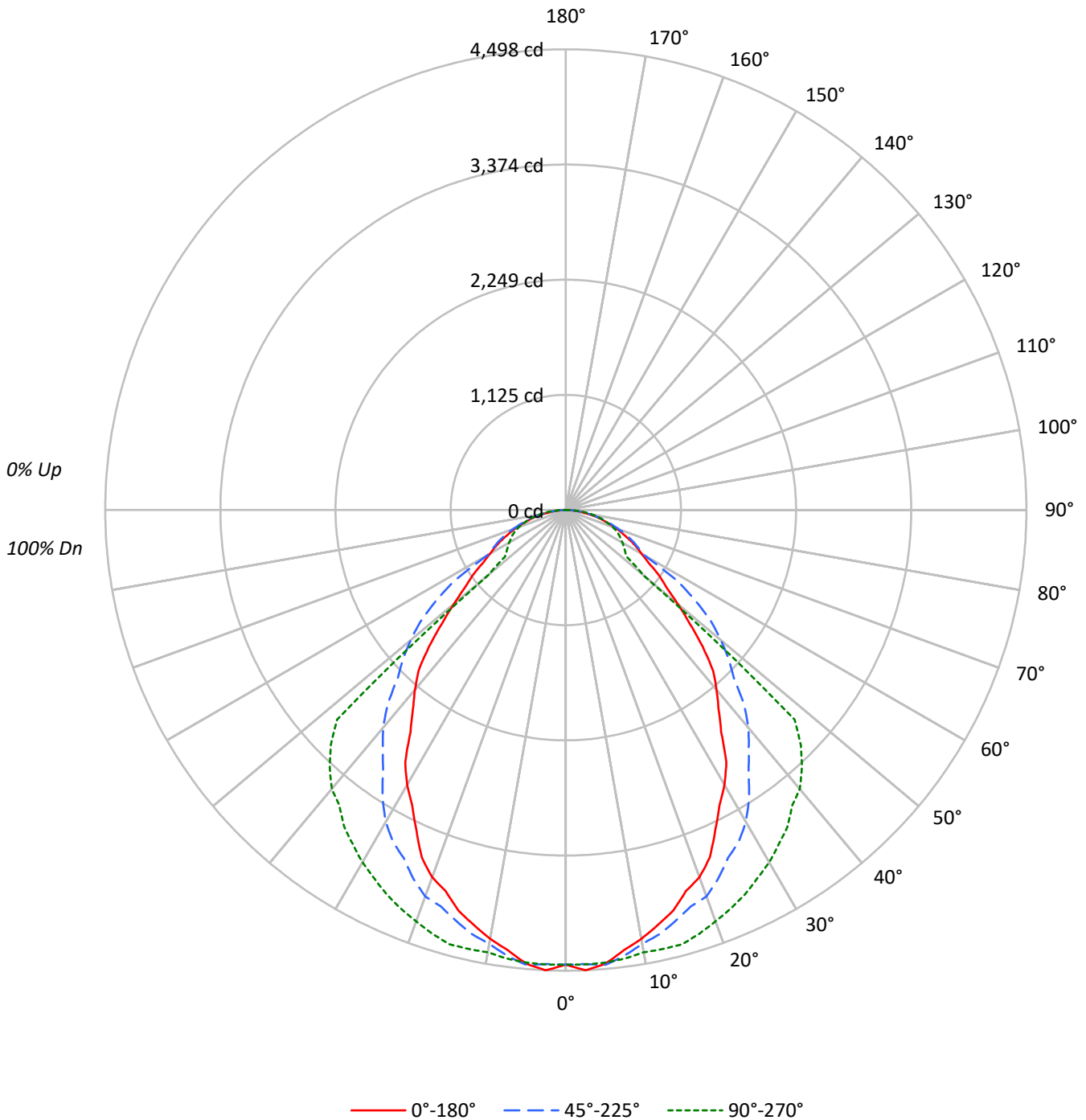
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9473.0 lumens
Efficiency: N/A
Efficacy: 135.3 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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	89	89	89	87
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	77	77	77	75
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	67	67	67	65
4	87	76	68	62	84	74	67	61	72	66	61	70	64	60	68	63	59	59	59	59	57
5	80	68	60	54	78	67	60	54	65	59	53	63	58	53	62	57	52	52	52	52	50
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	56	51	47	47	47	47	45
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	42	42	42	40
8	65	52	44	39	63	52	44	39	50	43	39	49	43	38	48	42	38	38	38	38	36
9	61	48	40	35	59	48	40	35	47	40	35	45	39	35	44	39	35	35	35	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	32	32	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15751	15751	15751
5°	15835	15875	15794
10°	15315	15495	15798
15°	14874	15248	16123
20°	14407	15160	16136
25°	13518	14672	16207
30°	12698	14406	16273
35°	11450	13473	16350
40°	10606	12853	16465
45°	9488	11649	16279
50°	7871	10912	5469
55°	6858	9579	4375
60°	6065	6243	4537
65°	5767	6072	4816
70°	5409	5739	5080
75°	5035	5408	5222
80°	4585	5096	5466
85°	4063	4340	5907

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 16279 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	421.0	4.4
10°-20°	1184.5	12.5
20°-30°	1742.4	18.4
30°-40°	1992.6	21.0
40°-50°	1886.8	19.9
50°-60°	1039.5	11.0
60°-70°	667.4	7.0
70°-80°	411.9	4.3
80°-90°	126.8	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°	3347.9	35.3
0°-40°	5340.5	56.4
0°-60°	8266.9	87.3
0°-90°	9473.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9473.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4439	4439	4439	4439	4439	
5°	4446	4482	4457	4457	4434	417
15°	4049	4099	4151	4369	4389	1137
25°	3453	3607	3748	3992	4140	1590
35°	2644	2870	3110	3562	3775	1671
45°	1891	2070	2322	2979	3244	1446
55°	1109	1163	1548	798	707	991
65°	687	710	723	644	574	680
75°	367	374	394	415	381	391
85°	100	100	107	122	145	111
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4439.1	4439.1	4439.1	4439.1	4439.1
2.5°	4498.0	4509.3	4436.8	4434.5	4441.3
5°	4445.9	4482.1	4457.2	4457.2	4434.5
7.5°	4334.8	4396.0	4389.2	4441.3	4416.4
10°	4250.9	4300.8	4300.8	4436.8	4384.7
12.5°	4151.1	4207.8	4239.6	4382.4	4389.2
15°	4049.1	4099.0	4151.1	4368.8	4389.2
17.5°	3901.8	3992.4	4058.2	4271.3	4337.0
20°	3815.6	3870.0	4015.1	4187.4	4273.6
22.5°	3672.8	3752.1	3892.7	4085.4	4212.3
25°	3452.9	3607.0	3747.6	3992.4	4139.8
27.5°	3248.8	3364.4	3654.6	3913.1	4053.6
30°	3099.2	3189.9	3516.3	3797.5	3972.0
32.5°	2917.8	3065.2	3330.4	3684.1	3870.0
35°	2643.5	2870.2	3110.5	3561.7	3774.8
37.5°	2450.8	2607.2	2933.7	3434.7	3632.0
40°	2289.8	2432.6	2775.0	3276.0	3554.9
42.5°	2128.8	2244.5	2575.5	3158.1	3412.0
45°	1890.8	2069.9	2321.6	2979.0	3244.3
47.5°	1641.4	1831.9	2156.1	2827.1	3031.2
50°	1426.0	1577.9	1976.9	2525.6	990.7
52.5°	1237.9	1378.4	1786.5	913.7	748.2
55°	1108.6	1163.0	1548.5	798.0	707.3
57.5°	954.5	1042.9	1299.1	759.5	671.1
60°	854.7	893.3	879.7	721.0	639.3
62.5°	775.4	802.6	798.0	682.4	603.1
65°	686.9	709.6	723.2	643.9	573.6
67.5°	598.5	618.9	639.3	596.3	532.8
70°	521.4	535.0	553.2	539.6	489.7
72.5°	442.1	458.0	469.3	480.6	433.0
75°	367.3	374.1	394.5	414.9	380.9
77.5°	299.3	306.1	319.7	342.3	324.2
80°	224.4	231.2	249.4	267.5	267.5
82.5°	158.7	163.2	174.6	199.5	210.8
85°	99.8	99.8	106.6	122.4	145.1
87.5°	38.5	38.5	45.3	54.4	72.5
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	17.53	19.01	17.89	19.32	19.64	15.33	16.81	15.70	17.13	17.44
	3H	19.05	20.38	19.43	20.71	21.07	17.66	18.99	18.04	19.32	19.68
	4H	19.65	20.89	20.05	21.24	21.62	18.61	19.85	19.01	20.20	20.58
	6H	20.10	21.25	20.52	21.62	22.01	19.40	20.54	19.81	20.91	21.30
	8H	20.25	21.34	20.68	21.73	22.13	19.71	20.80	20.13	21.19	21.59
	12H	20.34	21.39	20.78	21.77	22.20	19.96	21.00	20.39	21.38	21.81
4H	2H	18.08	19.32	18.48	19.67	20.05	16.44	17.68	16.84	18.03	18.41
	3H	19.85	20.88	20.26	21.28	21.68	18.88	19.91	19.29	20.31	20.71
	4H	20.57	21.50	21.00	21.91	22.35	19.95	20.87	20.38	21.29	21.73
	6H	21.16	21.96	21.61	22.40	22.87	20.84	21.64	21.29	22.08	22.54
	8H	21.35	22.10	21.81	22.54	23.01	21.19	21.94	21.65	22.38	22.85
	12H	21.48	22.16	21.97	22.63	23.11	21.47	22.15	21.96	22.63	23.10
8H	4H	20.88	21.63	21.34	22.08	22.54	20.33	21.09	20.80	21.53	22.00
	6H	21.59	22.21	22.09	22.71	23.18	21.37	21.99	21.87	22.49	22.96
	8H	21.85	22.41	22.37	22.92	23.41	21.81	22.38	22.33	22.89	23.38
	12H	22.06	22.56	22.57	23.05	23.62	22.20	22.70	22.71	23.19	23.75
12H	4H	20.91	21.59	21.40	22.07	22.54	20.37	21.04	20.85	21.52	21.99
	6H	21.65	22.22	22.17	22.73	23.22	21.43	22.00	21.95	22.51	22.99
	8H	21.97	22.47	22.48	22.96	23.53	21.94	22.44	22.45	22.93	23.50