

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: P895128

Luminaire Tested: 8TMB-6SL-LVRA-UNV-L850

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895128
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-6SL-LVRA-UNV-L850
Description: 6000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 80CRI, 5000K CCT
Light Source: -
Ballast/Driver: -

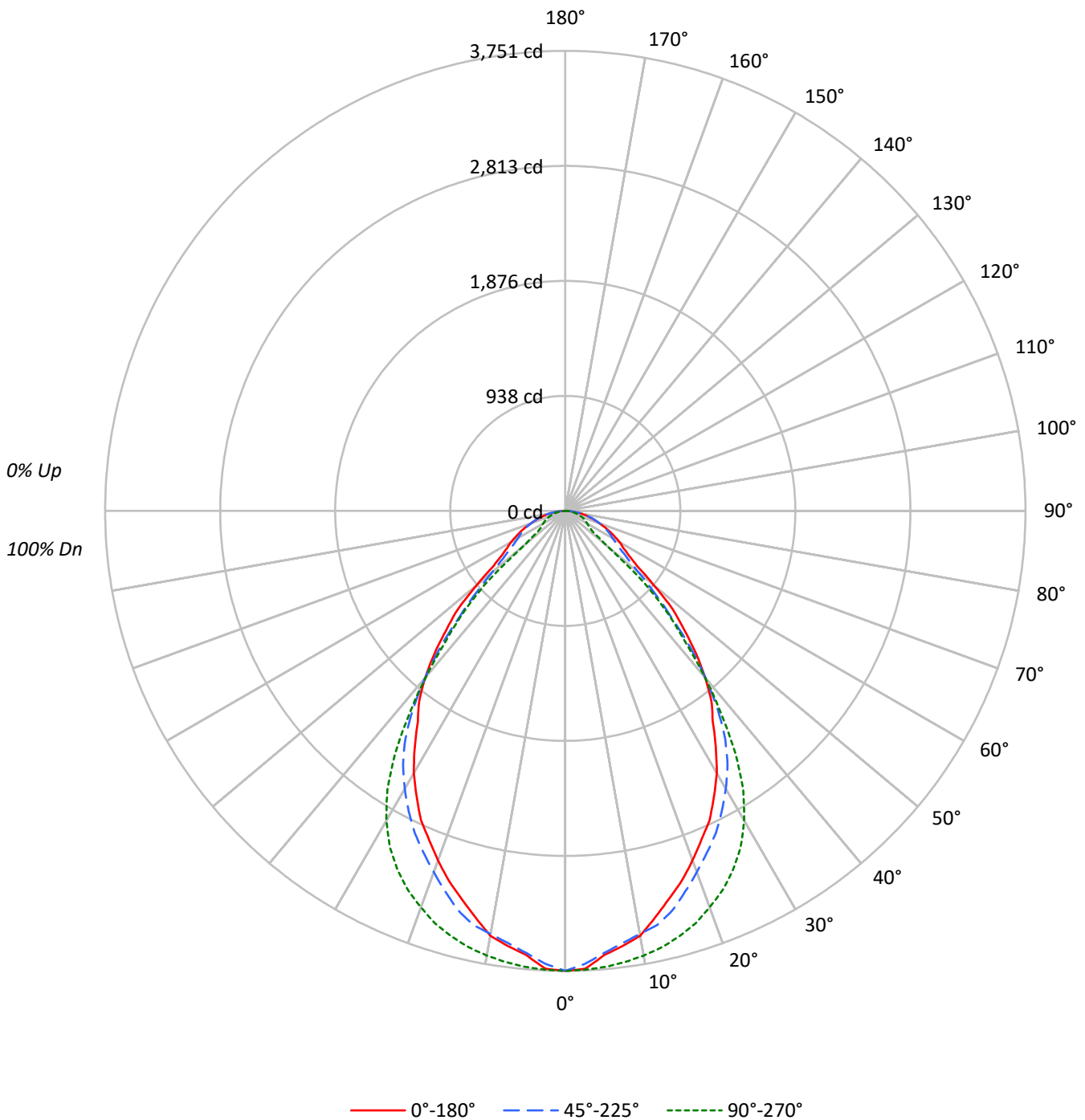
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6087.0 lumens
Efficiency: N/A
Efficacy: 144.2 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): 42.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.996
Total Harmonic Distortion (THDi): 5.51
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°	13308	13308	13308
5°	12949	12890	13293
10°	12673	12618	13262
15°	12019	12389	13188
20°	11449	11837	12986
25°	10891	11357	12655
30°	10119	10721	11948
35°	9073	9852	10480
40°	8220	8238	8193
45°	6873	6087	5937
50°	5191	4285	2428
55°	3905	3426	1531
60°	3629	3156	1475
65°	3376	3149	1477
70°	3088	3088	1454
75°	2928	3008	1405
80°	2705	2844	1443
85°	2361	2479	1575

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 7033 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	346.4	5.7
10°-20°	954.6	15.7
20°-30°	1353.6	22.2
30°-40°	1394.5	22.9
40°-50°	974.0	16.0
50°-60°	467.4	7.7
60°-70°	327.9	5.4
70°-80°	205.0	3.4
80°-90°	63.4	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°	2654.7	43.6
0°-40°	4049.2	66.5
0°-60°	5490.7	90.2
0°-90°	6087.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6087.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3751	3751	3751	3751	3751	
5°	3636	3631	3619	3714	3732	344
15°	3272	3296	3373	3469	3590	921
25°	2782	2810	2901	3097	3232	1272
35°	2095	2152	2274	2322	2420	1320
45°	1370	1402	1213	1151	1183	1055
55°	631	600	554	355	248	591
65°	402	376	375	285	176	398
75°	214	211	219	190	102	225
85°	58	58	61	60	39	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3750.6	3750.6	3750.6	3750.6	3750.6
2.5°	3736.1	3724.5	3696.4	3747.7	3743.8
5°	3635.5	3630.7	3619.1	3713.8	3732.2
7.5°	3578.5	3568.8	3555.3	3659.7	3710.9
10°	3517.6	3529.2	3502.1	3597.8	3681.0
12.5°	3391.9	3422.9	3459.6	3534.0	3644.2
15°	3272.1	3296.2	3372.6	3469.3	3590.1
17.5°	3159.9	3188.0	3253.7	3398.7	3527.3
20°	3032.3	3071.0	3134.8	3320.4	3439.3
22.5°	2900.9	2936.6	3016.9	3216.0	3348.4
25°	2782.0	2810.0	2900.9	3097.1	3232.4
27.5°	2624.4	2676.6	2762.6	2952.1	3094.2
30°	2469.8	2514.2	2616.7	2776.2	2916.3
32.5°	2283.2	2348.0	2461.1	2582.9	2699.8
35°	2094.7	2151.7	2274.5	2321.9	2419.5
37.5°	1957.4	1972.9	2042.5	2036.7	2091.8
40°	1774.7	1805.7	1778.6	1706.1	1768.9
42.5°	1577.6	1614.3	1505.1	1421.0	1443.2
45°	1369.7	1401.6	1213.1	1151.3	1183.2
47.5°	1189.9	1187.0	978.2	936.7	892.2
50°	940.5	971.5	776.2	698.9	439.8
52.5°	734.6	746.2	639.9	446.6	289.0
55°	631.2	600.3	553.9	354.8	247.5
57.5°	560.6	522.0	491.1	329.6	226.2
60°	511.4	467.9	444.7	313.2	207.8
62.5°	455.3	421.5	412.8	298.7	191.4
65°	402.1	376.0	375.1	285.2	175.9
67.5°	349.0	334.5	338.3	268.7	158.5
70°	297.7	294.8	297.7	247.5	140.2
72.5°	254.2	251.3	259.1	220.4	119.9
75°	213.6	210.7	219.4	189.5	102.5
77.5°	170.1	172.1	177.9	157.6	86.0
80°	132.4	132.4	139.2	123.7	70.6
82.5°	94.7	95.7	99.6	90.9	55.1
85°	58.0	58.0	60.9	59.9	38.7
87.5°	19.3	22.2	26.1	28.0	19.3
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	14.64	15.99	15.00	16.31	16.62	10.97	12.32	11.34	12.64	12.95
	3H	16.38	17.59	16.76	17.91	18.28	12.95	14.15	13.33	14.48	14.85
	4H	17.05	18.18	17.45	18.53	18.91	13.65	14.78	14.05	15.13	15.51
	6H	17.56	18.59	17.97	18.96	19.36	14.18	15.21	14.59	15.58	15.98
	8H	17.73	18.71	18.16	19.10	19.51	14.36	15.35	14.79	15.74	16.14
	12H	17.84	18.78	18.27	19.16	19.59	14.50	15.44	14.93	15.83	16.26
4H	2H	15.17	16.30	15.57	16.65	17.03	12.59	13.72	13.00	14.07	14.45
	3H	17.15	18.08	17.56	18.48	18.88	14.77	15.70	15.18	16.11	16.51
	4H	17.95	18.78	18.38	19.20	19.65	15.65	16.49	16.09	16.91	17.35
	6H	18.59	19.32	19.05	19.76	20.23	16.30	17.02	16.76	17.46	17.93
	8H	18.81	19.49	19.28	19.94	20.41	16.50	17.18	16.97	17.63	18.10
	12H	18.97	19.57	19.45	20.05	20.52	16.66	17.26	17.15	17.74	18.22
8H	4H	18.23	18.91	18.70	19.36	19.83	16.30	16.98	16.77	17.42	17.89
	6H	19.02	19.57	19.52	20.07	20.55	17.16	17.72	17.66	18.21	18.69
	8H	19.32	19.82	19.84	20.33	20.82	17.49	17.99	18.01	18.50	18.99
	12H	19.55	19.99	20.07	20.49	21.06	17.75	18.19	18.27	18.69	19.26
12H	4H	18.25	18.85	18.74	19.33	19.81	16.37	16.97	16.86	17.46	17.93
	6H	19.07	19.57	19.59	20.08	20.57	17.30	17.80	17.82	18.31	18.80
	8H	19.43	19.87	19.95	20.37	20.94	17.71	18.15	18.23	18.65	19.22