

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: P894405

Luminaire Tested: 8TMB-10SL-LVRA-UNV-L830

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894405
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-10SL-LVRA-UNV-L830
Description: 10000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 80CRI, 3000K CCT
Light Source: -
Ballast/Driver: -

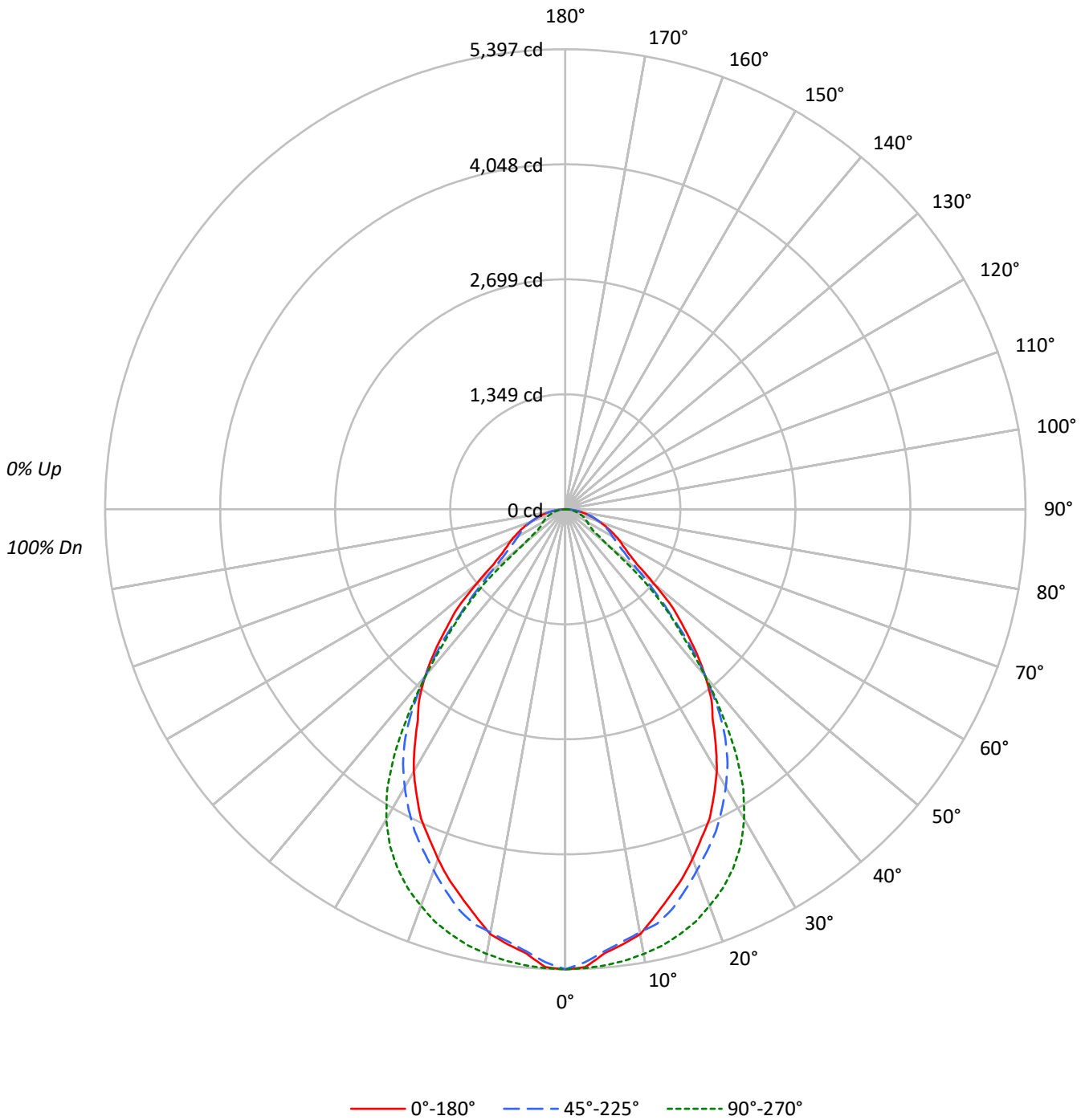
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8759.0 lumens
Efficiency: N/A
Efficacy: 125.1 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): 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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	93	92	90	88
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	85	82	80	78
3	96	87	80	75	94	86	80	75	83	78	73	80	76	72	78	74	71	78	74	71	69
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	71	67	63	62
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	66	61	57	55
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	61	56	52	50
7	73	61	54	48	71	60	53	48	59	52	48	58	52	47	56	51	47	56	51	47	45
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	52	47	43	41
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	49	44	40	38
10	61	49	42	37	60	48	42	37	47	41	37	47	41	37	46	40	37	46	40	37	35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19149	19149	19149
5°	18633	18549	19128
10°	18237	18156	19084
15°	17295	17827	18976
20°	16476	17032	18687
25°	15672	16342	18210
30°	14560	15427	17193
35°	13056	14176	15080
40°	11829	11855	11790
45°	9890	8760	8543
50°	7471	6165	3494
55°	5619	4930	2203
60°	5221	4540	2122
65°	4858	4531	2126
70°	4444	4444	2092
75°	4214	4328	2021
80°	3895	4093	2074
85°	3399	3566	2263

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 10120 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	498.5	5.7
10°-20°	1373.6	15.7
20°-30°	1947.8	22.2
30°-40°	2006.7	22.9
40°-50°	1401.6	16.0
50°-60°	672.5	7.7
60°-70°	471.8	5.4
70°-80°	295.0	3.4
80°-90°	91.2	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°	3820.0	43.6
0°-40°	5826.7	66.5
0°-60°	7900.9	90.2
0°-90°	8759.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8759.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5397	5397	5397	5397	5397	
5°	5231	5224	5208	5344	5370	495
15°	4708	4743	4853	4992	5166	1326
25°	4003	4044	4174	4457	4651	1830
35°	3014	3096	3273	3341	3482	1899
45°	1971	2017	1746	1657	1702	1519
55°	908	864	797	510	356	851
65°	579	541	540	410	253	573
75°	307	303	316	273	147	324
85°	84	84	88	86	56	93
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5396.9	5396.9	5396.9	5396.9	5396.9
2.5°	5376.1	5359.4	5319.0	5392.8	5387.2
5°	5231.4	5224.4	5207.8	5344.1	5370.5
7.5°	5149.3	5135.4	5115.9	5266.2	5339.9
10°	5061.7	5078.4	5039.4	5177.2	5296.8
12.5°	4880.9	4925.4	4978.2	5085.3	5243.9
15°	4708.4	4743.2	4853.1	4992.2	5166.0
17.5°	4547.0	4587.4	4682.0	4890.6	5075.6
20°	4363.4	4419.1	4510.9	4777.9	4949.0
22.5°	4174.3	4225.7	4341.2	4627.7	4818.3
25°	4003.2	4043.5	4174.3	4456.6	4651.4
27.5°	3776.5	3851.6	3975.4	4248.0	4452.5
30°	3553.9	3617.9	3765.3	3994.8	4196.5
32.5°	3285.4	3378.6	3541.4	3716.6	3885.0
35°	3014.2	3096.3	3272.9	3341.1	3481.6
37.5°	2816.7	2838.9	2939.1	2930.8	3010.0
40°	2553.8	2598.3	2559.4	2455.0	2545.5
42.5°	2270.0	2322.9	2165.7	2044.7	2076.7
45°	1971.0	2016.9	1745.7	1656.6	1702.5
47.5°	1712.3	1708.1	1407.7	1347.8	1283.9
50°	1353.4	1397.9	1116.9	1005.7	632.9
52.5°	1057.1	1073.8	920.8	642.6	415.9
55°	908.3	863.8	797.0	510.5	356.1
57.5°	806.8	751.1	706.6	474.3	325.5
60°	735.8	673.2	639.8	450.7	299.1
62.5°	655.1	606.5	593.9	429.8	275.4
65°	578.6	541.1	539.7	410.3	253.2
67.5°	502.1	481.3	486.8	386.7	228.1
70°	428.4	424.2	428.4	356.1	201.7
72.5°	365.8	361.6	372.8	317.1	172.5
75°	307.4	303.2	315.7	272.6	147.4
77.5°	244.8	247.6	255.9	226.7	123.8
80°	190.6	190.6	200.3	178.0	101.5
82.5°	136.3	137.7	143.3	130.8	79.3
85°	83.5	83.5	87.6	86.2	55.6
87.5°	27.8	32.0	37.6	40.3	27.8
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	15.90	17.26	16.27	17.57	17.89	12.24	13.59	12.60	13.90	14.22
	3H	17.64	18.85	18.02	19.18	19.54	14.21	15.42	14.59	15.75	16.11
	4H	18.31	19.44	18.72	19.79	20.17	14.92	16.04	15.32	16.39	16.78
	6H	18.82	19.86	19.23	20.23	20.62	15.44	16.48	15.85	16.85	17.24
	8H	18.99	19.98	19.42	20.37	20.77	15.62	16.61	16.05	17.00	17.40
	12H	19.10	20.04	19.53	20.43	20.86	15.76	16.71	16.20	17.09	17.52
4H	2H	16.43	17.56	16.84	17.91	18.29	13.86	14.99	14.26	15.34	15.72
	3H	18.41	19.34	18.82	19.74	20.15	16.04	16.97	16.45	17.37	17.77
	4H	19.21	20.05	19.65	20.47	20.91	16.92	17.75	17.35	18.17	18.61
	6H	19.86	20.58	20.32	21.03	21.49	17.56	18.28	18.02	18.73	19.19
	8H	20.08	20.75	20.54	21.20	21.67	17.77	18.44	18.24	18.89	19.36
	12H	20.23	20.83	20.72	21.31	21.79	17.93	18.53	18.41	19.01	19.48
8H	4H	19.50	20.17	19.97	20.62	21.09	17.56	18.24	18.03	18.69	19.16
	6H	20.28	20.84	20.78	21.33	21.81	18.43	18.98	18.93	19.48	19.96
	8H	20.58	21.08	21.10	21.60	22.09	18.75	19.25	19.27	19.77	20.26
	12H	20.82	21.26	21.33	21.75	22.32	19.02	19.46	19.53	19.95	20.52
12H	4H	19.51	20.11	20.00	20.60	21.07	17.64	18.24	18.12	18.72	19.19
	6H	20.33	20.83	20.85	21.35	21.84	18.56	19.06	19.08	19.58	20.07
	8H	20.70	21.14	21.21	21.63	22.20	18.98	19.42	19.49	19.91	20.48