

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: P894407

Luminaire Tested: 8TMB-10SL-LVRA-UNV-L840

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894407
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-L840
Description: 10000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 80CRI, 4000K CCT
Light Source: -
Ballast/Driver: -

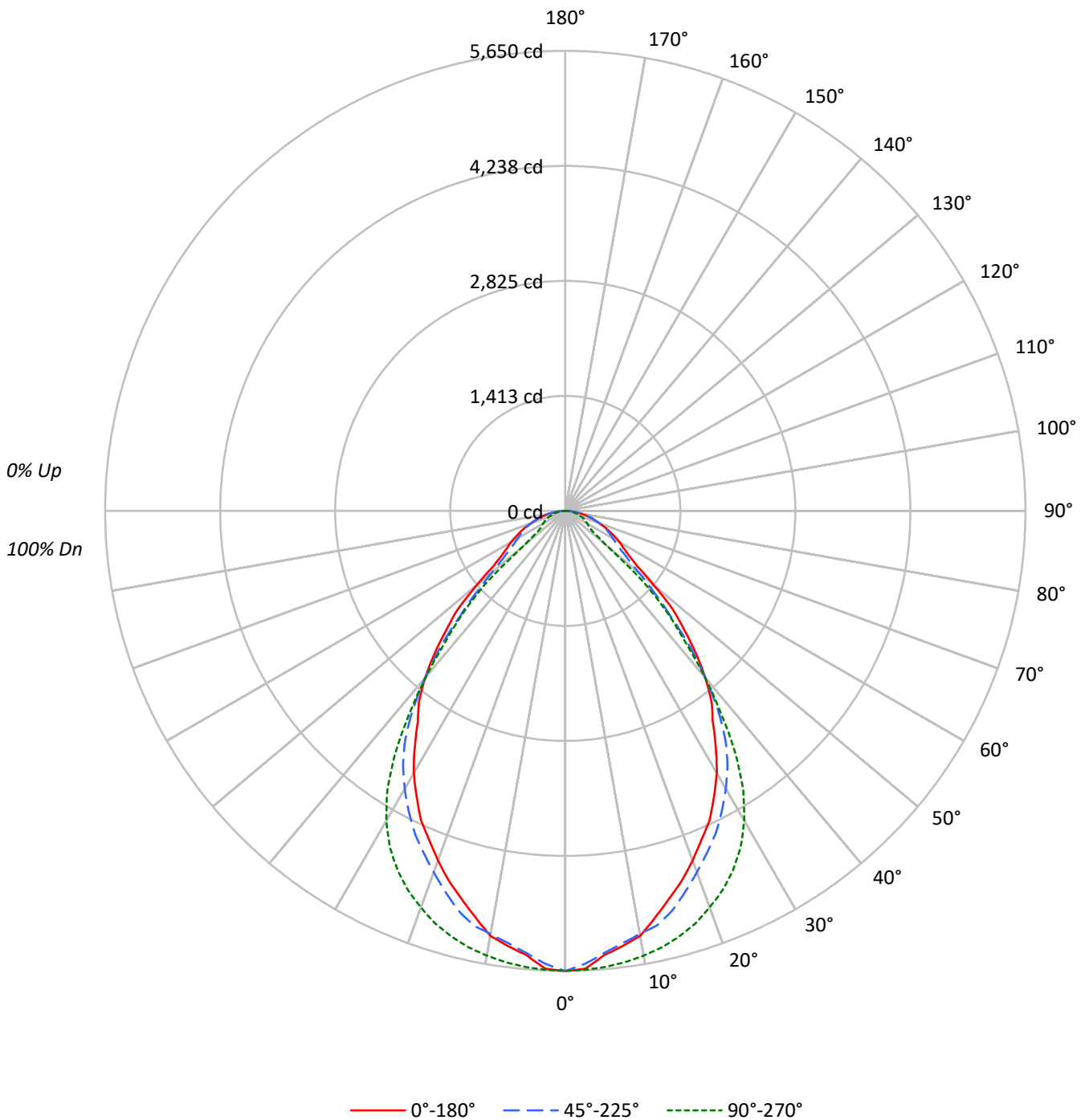
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9170.0 lumens
Efficiency: N/A
Efficacy: 131.0 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 (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

TEST NUMBER: P894407
CATALOG NUMBER: 8TMB-10SL-LVRA-UNV-L840

Luminous Intensity Polar Plot





TEST NUMBER: P894407

CATALOG NUMBER: 8TMB-10SL-LVRA-UNV-L840

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°	20048	20048	20048
5°	19507	19419	20026
10°	19092	19008	19979
15°	18107	18663	19867
20°	17249	17831	19564
25°	16407	17109	19064
30°	15244	16151	18000
35°	13668	14842	15788
40°	12383	12411	12343
45°	10354	9171	8944
50°	7821	6455	3657
55°	5882	5162	2306
60°	5466	4754	2222
65°	5086	4744	2225
70°	4653	4653	2191
75°	4412	4532	2117
80°	4076	4285	2172
85°	3558	3733	2369

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 10595 cd/sqm



TEST NUMBER: P894407
 CATALOG NUMBER: 8TMB-10SL-LVRA-UNV-L840

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	521.9	5.7
10°-20°	1438.1	15.7
20°-30°	2039.2	22.2
30°-40°	2100.9	22.9
40°-50°	1467.4	16.0
50°-60°	704.1	7.7
60°-70°	494.0	5.4
70°-80°	308.9	3.4
80°-90°	95.5	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°	3999.3	43.6
0°-40°	6100.1	66.5
0°-60°	8271.6	90.2
0°-90°	9170.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9170.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5650	5650	5650	5650	5650	
5°	5477	5470	5452	5595	5622	518
15°	4929	4966	5081	5226	5408	1388
25°	4191	4233	4370	4666	4870	1916
35°	3156	3242	3426	3498	3645	1989
45°	2064	2112	1828	1734	1782	1590
55°	951	904	834	534	373	891
65°	606	566	565	430	265	600
75°	322	318	331	285	154	339
85°	87	87	92	90	58	98
90°	0	0	0	0	0	



TEST NUMBER: P894407

CATALOG NUMBER: 8TMB-10SL-LVRA-UNV-L840

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5650.2	5650.2	5650.2	5650.2	5650.2
2.5°	5628.3	5610.8	5568.6	5645.8	5640.0
5°	5476.9	5469.6	5452.1	5594.8	5622.5
7.5°	5391.0	5376.4	5356.0	5513.3	5590.5
10°	5299.2	5316.7	5275.9	5420.1	5545.3
12.5°	5109.9	5156.5	5211.8	5324.0	5490.0
15°	4929.3	4965.7	5080.8	5226.4	5408.4
17.5°	4760.4	4802.6	4901.7	5120.1	5313.8
20°	4568.2	4626.4	4722.5	5002.1	5181.3
22.5°	4370.1	4424.0	4544.9	4844.9	5044.4
25°	4191.0	4233.3	4370.1	4665.8	4869.6
27.5°	3953.7	4032.3	4161.9	4447.3	4661.4
30°	3720.7	3787.6	3942.0	4182.3	4393.4
32.5°	3439.6	3537.2	3707.6	3891.0	4067.2
35°	3155.6	3241.6	3426.5	3497.9	3644.9
37.5°	2948.9	2972.2	3077.0	3068.3	3151.3
40°	2673.6	2720.2	2679.5	2570.2	2664.9
42.5°	2376.6	2431.9	2267.3	2140.7	2174.1
45°	2063.5	2111.5	1827.6	1734.4	1782.4
47.5°	1792.6	1788.2	1473.7	1411.1	1344.1
50°	1416.9	1463.5	1169.4	1052.9	662.6
52.5°	1106.7	1124.2	964.0	672.8	435.4
55°	950.9	904.3	834.4	534.4	372.8
57.5°	844.6	786.4	739.8	496.6	340.8
60°	770.3	704.8	669.9	471.8	313.1
62.5°	685.9	634.9	621.8	450.0	288.3
65°	605.8	566.5	565.0	429.6	265.0
67.5°	525.7	503.9	509.7	404.8	238.8
70°	448.5	444.1	448.5	372.8	211.2
72.5°	383.0	378.6	390.3	332.0	180.6
75°	321.8	317.5	330.6	285.4	154.4
77.5°	256.3	259.2	267.9	237.4	129.6
80°	199.5	199.5	209.7	186.4	106.3
82.5°	142.7	144.2	150.0	136.9	83.0
85°	87.4	87.4	91.7	90.3	58.2
87.5°	29.1	33.5	39.3	42.2	29.1
90°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P894407
 CATALOG NUMBER: 8TMB-10SL-LVRA-UNV-L840

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	16.06	17.42	16.43	17.73	18.04	12.40	13.75	12.76	14.06	14.38
	3H	17.80	19.01	18.18	19.34	19.70	14.37	15.58	14.75	15.91	16.27
	4H	18.47	19.60	18.88	19.95	20.33	15.08	16.20	15.48	16.55	16.94
	6H	18.98	20.02	19.39	20.39	20.78	15.60	16.64	16.01	17.01	17.40
	8H	19.15	20.14	19.58	20.53	20.93	15.78	16.77	16.21	17.16	17.56
	12H	19.26	20.20	19.69	20.59	21.02	15.92	16.87	16.36	17.25	17.68
4H	2H	16.59	17.72	17.00	18.07	18.45	14.02	15.15	14.42	15.50	15.88
	3H	18.57	19.50	18.98	19.90	20.31	16.20	17.13	16.61	17.53	17.93
	4H	19.37	20.21	19.81	20.63	21.07	17.08	17.91	17.51	18.33	18.77
	6H	20.02	20.74	20.48	21.19	21.65	17.72	18.44	18.18	18.89	19.35
	8H	20.24	20.91	20.70	21.36	21.83	17.93	18.60	18.39	19.05	19.52
	12H	20.39	20.99	20.88	21.47	21.95	18.09	18.69	18.57	19.17	19.64
8H	4H	19.66	20.33	20.12	20.78	21.25	17.72	18.40	18.19	18.85	19.32
	6H	20.44	21.00	20.94	21.49	21.97	18.59	19.14	19.09	19.64	20.12
	8H	20.74	21.24	21.26	21.76	22.25	18.91	19.41	19.43	19.93	20.42
	12H	20.98	21.42	21.49	21.91	22.48	19.18	19.62	19.69	20.11	20.68
12H	4H	19.67	20.27	20.16	20.76	21.23	17.80	18.40	18.28	18.88	19.35
	6H	20.49	20.99	21.01	21.51	22.00	18.72	19.22	19.24	19.74	20.23
	8H	20.86	21.30	21.37	21.79	22.36	19.14	19.58	19.65	20.07	20.64