

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: P895454

Luminaire Tested: 8TMB-SC3-LVRA-UNV-CC93-MID-3500K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895454
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-SC3-LVRA-UNV-CC93-MID-3500K
Description: Selectable 8FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 90CRI, 3500K CCT, MI
lumen setting
Light Source: -
Ballast/Driver: -

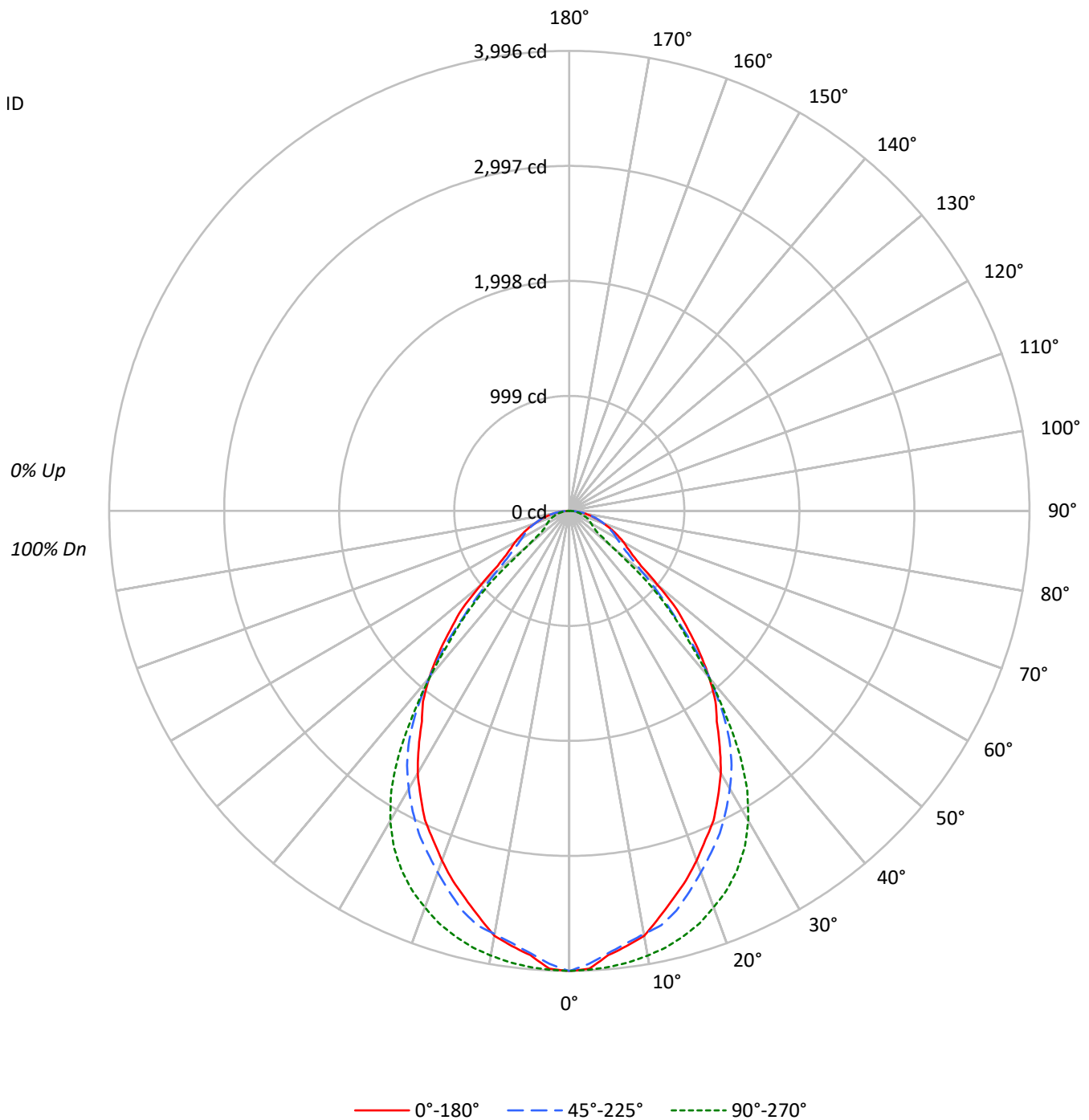
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6486.0 lumens
Efficiency: N/A
Efficacy: 97.0 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): 66.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.9948
Total Harmonic Distortion (THDi): 5.65231997856897
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	90	90	90	88
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	80	80	80	78
3	96	87	80	75	94	86	80	75	83	78	73	80	76	72	78	74	71	71	71	71	69
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	63	63	63	62
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	57	57	57	55
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	52	52	52	50
7	73	61	54	48	71	60	53	48	59	52	48	58	52	47	56	51	47	47	47	47	45
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	43	43	43	41
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	40	40	40	38
10	61	49	42	37	60	48	42	37	47	41	37	47	41	37	46	40	37	37	37	37	35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14180	14180	14180
5°	13797	13735	14164
10°	13504	13445	14131
15°	12807	13201	14052
20°	12200	12612	13837
25°	11605	12101	13484
30°	10782	11423	12732
35°	9668	10498	11167
40°	8759	8778	8730
45°	7324	6486	6326
50°	5532	4566	2587
55°	4161	3651	1631
60°	3867	3362	1571
65°	3598	3355	1574
70°	3291	3291	1549
75°	3120	3205	1497
80°	2883	3030	1537
85°	2516	2642	1677

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 7494 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	369.2	5.7
10°-20°	1017.2	15.7
20°-30°	1442.4	22.2
30°-40°	1486.0	22.9
40°-50°	1037.9	16.0
50°-60°	498.0	7.7
60°-70°	349.4	5.4
70°-80°	218.4	3.4
80°-90°	67.6	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°	2828.7	43.6
0°-40°	4314.7	66.5
0°-60°	5850.6	90.2
0°-90°	6486.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6486.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3996	3996	3996	3996	3996	
5°	3874	3869	3856	3957	3977	367
15°	3486	3512	3594	3697	3825	982
25°	2964	2994	3091	3300	3444	1355
35°	2232	2293	2424	2474	2578	1406
45°	1460	1494	1293	1227	1261	1124
55°	673	640	590	378	264	630
65°	428	401	400	304	188	425
75°	228	224	234	202	109	240
85°	62	62	65	64	41	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3996.4	3996.4	3996.4	3996.4	3996.4
2.5°	3980.9	3968.6	3938.7	3993.3	3989.2
5°	3873.8	3868.7	3856.3	3957.3	3976.8
7.5°	3813.1	3802.8	3788.3	3899.6	3954.2
10°	3748.2	3760.5	3731.7	3833.7	3922.2
12.5°	3614.3	3647.2	3686.4	3765.7	3883.1
15°	3486.5	3512.3	3593.7	3696.7	3825.4
17.5°	3367.1	3396.9	3467.0	3621.5	3758.5
20°	3231.1	3272.3	3340.3	3538.0	3664.7
22.5°	3091.0	3129.1	3214.6	3426.8	3567.9
25°	2964.3	2994.2	3091.0	3300.1	3444.3
27.5°	2796.4	2852.1	2943.7	3145.6	3297.0
30°	2631.6	2679.0	2788.2	2958.2	3107.5
32.5°	2432.9	2501.9	2622.4	2752.2	2876.8
35°	2232.0	2292.8	2423.6	2474.1	2578.1
37.5°	2085.7	2102.2	2176.4	2170.2	2228.9
40°	1891.1	1924.0	1895.2	1817.9	1884.9
42.5°	1681.0	1720.1	1603.7	1514.1	1537.8
45°	1459.5	1493.5	1292.6	1226.7	1260.7
47.5°	1267.9	1264.8	1042.4	998.1	950.7
50°	1002.2	1035.1	827.1	744.7	468.6
52.5°	782.8	795.2	681.9	475.9	308.0
55°	672.6	639.6	590.2	378.0	263.7
57.5°	597.4	556.2	523.2	351.2	241.0
60°	544.9	498.5	473.8	333.7	221.4
62.5°	485.1	449.1	439.8	318.3	203.9
65°	428.5	400.7	399.6	303.8	187.5
67.5°	371.8	356.4	360.5	286.3	168.9
70°	317.2	314.1	317.2	263.7	149.3
72.5°	270.9	267.8	276.0	234.8	127.7
75°	227.6	224.5	233.8	201.9	109.2
77.5°	181.3	183.3	189.5	167.9	91.7
80°	141.1	141.1	148.3	131.8	75.2
82.5°	100.9	102.0	106.1	96.8	58.7
85°	61.8	61.8	64.9	63.9	41.2
87.5°	20.6	23.7	27.8	29.9	20.6
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	14.86	16.21	15.23	16.53	16.84	11.19	12.55	11.56	12.86	13.17
	3H	16.60	17.81	16.98	18.13	18.50	13.17	14.37	13.55	14.70	15.07
	4H	17.27	18.40	17.67	18.75	19.13	13.87	15.00	14.27	15.35	15.73
	6H	17.78	18.81	18.19	19.18	19.58	14.40	15.43	14.81	15.80	16.20
	8H	17.95	18.93	18.38	19.32	19.73	14.58	15.57	15.01	15.96	16.36
	12H	18.06	19.00	18.49	19.38	19.81	14.72	15.66	15.15	16.05	16.48
4H	2H	15.39	16.52	15.79	16.87	17.25	12.81	13.94	13.22	14.29	14.67
	3H	17.37	18.30	17.78	18.70	19.10	14.99	15.92	15.40	16.33	16.73
	4H	18.17	19.00	18.60	19.42	19.87	15.87	16.71	16.31	17.13	17.57
	6H	18.81	19.54	19.27	19.98	20.45	16.52	17.24	16.98	17.68	18.15
	8H	19.03	19.71	19.50	20.16	20.63	16.72	17.40	17.19	17.85	18.32
	12H	19.19	19.79	19.67	20.27	20.74	16.88	17.48	17.37	17.96	18.44
8H	4H	18.45	19.13	18.92	19.58	20.05	16.52	17.20	16.99	17.64	18.11
	6H	19.24	19.79	19.74	20.29	20.77	17.38	17.94	17.88	18.43	18.91
	8H	19.54	20.04	20.06	20.55	21.04	17.71	18.21	18.23	18.72	19.21
	12H	19.77	20.21	20.29	20.71	21.28	17.97	18.41	18.49	18.91	19.48
12H	4H	18.47	19.07	18.96	19.55	20.03	16.59	17.19	17.08	17.68	18.15
	6H	19.29	19.79	19.81	20.30	20.79	17.52	18.02	18.04	18.53	19.02
	8H	19.65	20.09	20.17	20.59	21.16	17.93	18.37	18.45	18.87	19.44