

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: P895421

Luminaire Tested: 8TMB-SC3-LVR-UNV-CC83-HI-3500K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895421
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-SC3-LVR-UNV-CC83-HI-3500K
Description: Selectable 8FT MICROBAY LINEAR BAY with LOUVER, 80CRI, 3500K CCT, HI lumen setting
Light Source: -
Ballast/Driver: -

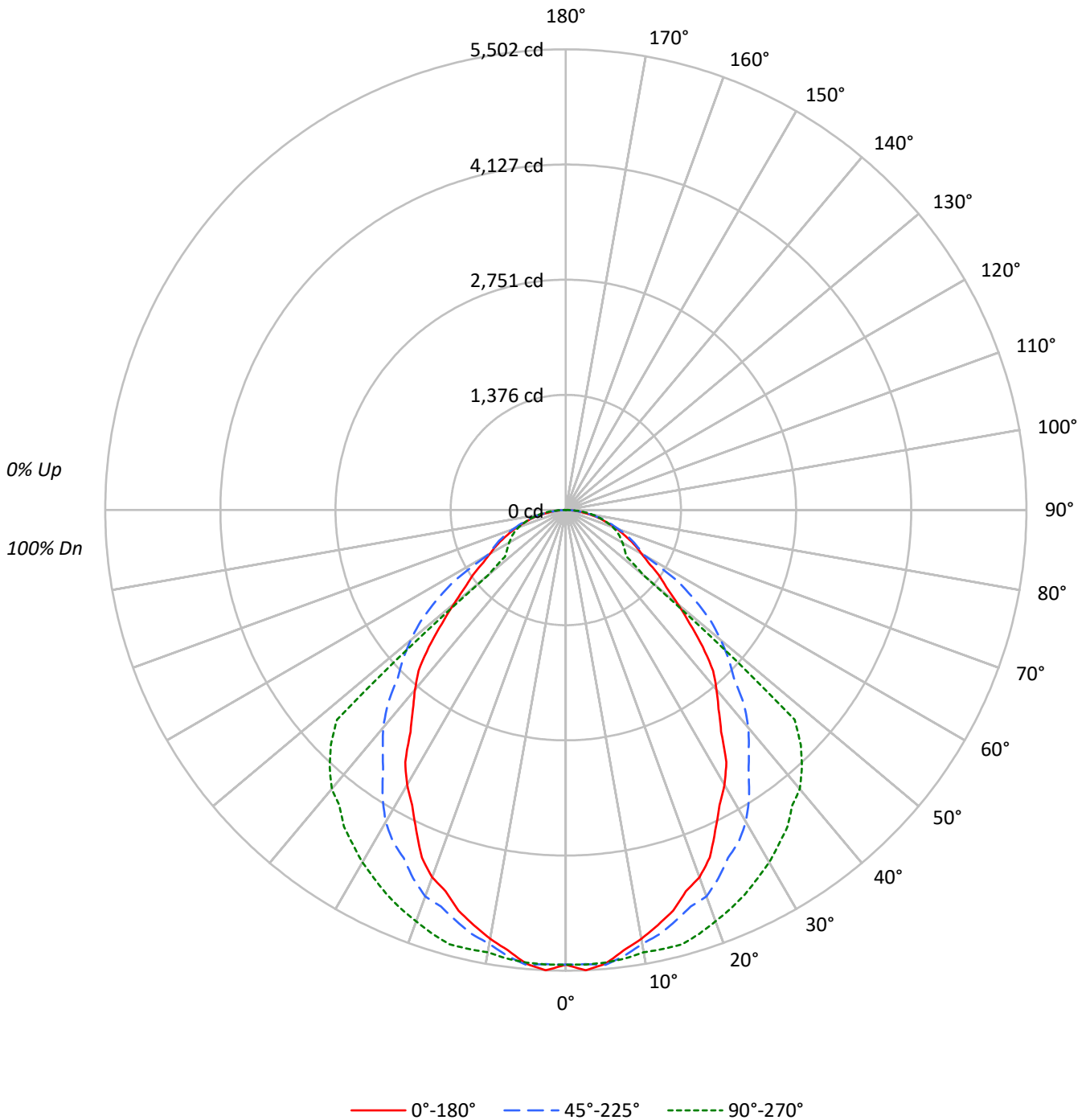
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11588.0 lumens
Efficiency: N/A
Efficacy: 114.3 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): 101.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.996
Total Harmonic Distortion (THDi): 5.39961257980444
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°	19267	19267	19267
5°	19370	19419	19321
10°	18735	18955	19324
15°	18194	18653	19722
20°	17624	18545	19739
25°	16536	17947	19826
30°	15532	17623	19907
35°	14007	16481	20001
40°	12974	15723	20142
45°	11606	14250	19914
50°	9629	13349	6690
55°	8389	11717	5353
60°	7419	7636	5550
65°	7055	7428	5890
70°	6618	7020	6214
75°	6159	6616	6387
80°	5611	6234	6688
85°	4967	5305	7226

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 19914 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	515.0	4.4
10°-20°	1448.9	12.5
20°-30°	2131.4	18.4
30°-40°	2437.5	21.0
40°-50°	2308.1	19.9
50°-60°	1271.6	11.0
60°-70°	816.4	7.0
70°-80°	503.9	4.3
80°-90°	155.1	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°	4095.4	35.3
0°-40°	6532.9	56.4
0°-60°	10112.6	87.3
0°-90°	11588.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11588.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5430	5430	5430	5430	5430	
5°	5438	5483	5452	5452	5425	510
15°	4953	5014	5078	5344	5369	1391
25°	4224	4412	4584	4884	5064	1945
35°	3234	3511	3805	4357	4618	2044
45°	2313	2532	2840	3644	3969	1769
55°	1356	1423	1894	976	865	1213
65°	840	868	885	788	702	832
75°	449	458	483	508	466	478
85°	122	122	130	150	178	136
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5430.2	5430.2	5430.2	5430.2	5430.2
2.5°	5502.3	5516.1	5427.4	5424.6	5432.9
5°	5438.5	5482.8	5452.3	5452.3	5424.6
7.5°	5302.6	5377.5	5369.1	5432.9	5402.4
10°	5200.0	5261.0	5261.0	5427.4	5363.6
12.5°	5077.9	5147.3	5186.1	5360.8	5369.1
15°	4953.1	5014.2	5077.9	5344.2	5369.1
17.5°	4772.9	4883.8	4964.2	5224.9	5305.4
20°	4667.5	4734.1	4911.5	5122.3	5227.7
22.5°	4492.8	4589.8	4761.8	4997.5	5152.8
25°	4223.8	4412.3	4584.3	4883.8	5064.1
27.5°	3974.2	4115.6	4470.6	4786.7	4958.7
30°	3791.1	3902.1	4301.4	4645.3	4858.9
32.5°	3569.3	3749.5	4074.0	4506.6	4734.1
35°	3233.7	3511.0	3805.0	4356.9	4617.6
37.5°	2998.0	3189.3	3588.7	4201.6	4442.9
40°	2801.1	2975.8	3394.5	4007.4	4348.6
42.5°	2604.1	2745.6	3150.5	3863.2	4173.8
45°	2312.9	2532.0	2839.9	3644.1	3968.6
47.5°	2007.9	2240.8	2637.4	3458.3	3707.9
50°	1744.4	1930.2	2418.3	3089.5	1211.9
52.5°	1514.2	1686.2	2185.4	1117.6	915.2
55°	1356.2	1422.7	1894.2	976.2	865.3
57.5°	1167.6	1275.7	1589.1	929.1	820.9
60°	1045.5	1092.7	1076.0	881.9	782.1
62.5°	948.5	981.8	976.2	834.8	737.7
65°	840.3	868.0	884.7	787.6	701.6
67.5°	732.2	757.1	782.1	729.4	651.7
70°	637.9	654.5	676.7	660.0	599.0
72.5°	540.8	560.2	574.1	587.9	529.7
75°	449.3	457.6	482.6	507.5	465.9
77.5°	366.1	374.4	391.0	418.8	396.6
80°	274.6	282.9	305.1	327.3	327.3
82.5°	194.1	199.7	213.5	244.1	257.9
85°	122.0	122.0	130.3	149.8	177.5
87.5°	47.1	47.1	55.5	66.6	88.7
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	18.23	19.71	18.59	20.02	20.34	16.03	17.51	16.40	17.83	18.14
	3H	19.75	21.08	20.13	21.41	21.77	18.36	19.69	18.74	20.02	20.38
	4H	20.35	21.59	20.75	21.94	22.32	19.31	20.55	19.71	20.90	21.28
	6H	20.80	21.95	21.22	22.32	22.71	20.10	21.24	20.51	21.61	22.00
	8H	20.95	22.04	21.38	22.43	22.83	20.41	21.50	20.83	21.89	22.29
	12H	21.04	22.09	21.48	22.47	22.90	20.66	21.70	21.09	22.08	22.51
4H	2H	18.78	20.02	19.18	20.37	20.75	17.14	18.38	17.54	18.73	19.11
	3H	20.55	21.58	20.96	21.98	22.38	19.58	20.61	19.99	21.01	21.41
	4H	21.27	22.20	21.70	22.61	23.05	20.65	21.57	21.08	21.99	22.43
	6H	21.86	22.66	22.31	23.11	23.57	21.54	22.34	21.99	22.78	23.24
	8H	22.05	22.80	22.51	23.24	23.71	21.89	22.64	22.35	23.08	23.55
	12H	22.18	22.86	22.67	23.33	23.81	22.18	22.85	22.66	23.33	23.80
8H	4H	21.58	22.33	22.04	22.78	23.24	21.03	21.79	21.50	22.23	22.70
	6H	22.29	22.91	22.79	23.41	23.88	22.07	22.69	22.57	23.19	23.66
	8H	22.55	23.11	23.07	23.62	24.11	22.51	23.08	23.03	23.59	24.08
	12H	22.76	23.26	23.27	23.75	24.32	22.90	23.40	23.41	23.89	24.46
12H	4H	21.61	22.29	22.10	22.77	23.24	21.07	21.74	21.55	22.22	22.69
	6H	22.35	22.92	22.87	23.43	23.92	22.13	22.70	22.65	23.21	23.70
	8H	22.67	23.17	23.18	23.67	24.23	22.64	23.14	23.15	23.63	24.20