

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: P895458

Luminaire Tested: 8TMB-SC3-LVRF-UNV-CC83-HI-4000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895458
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-7)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-SC3-LVRF-UNV-CC83-HI-4000K
Description: Selectable 8FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 80CRI, 4000K CCT
lumen setting
Light Source: -
Ballast/Driver: -

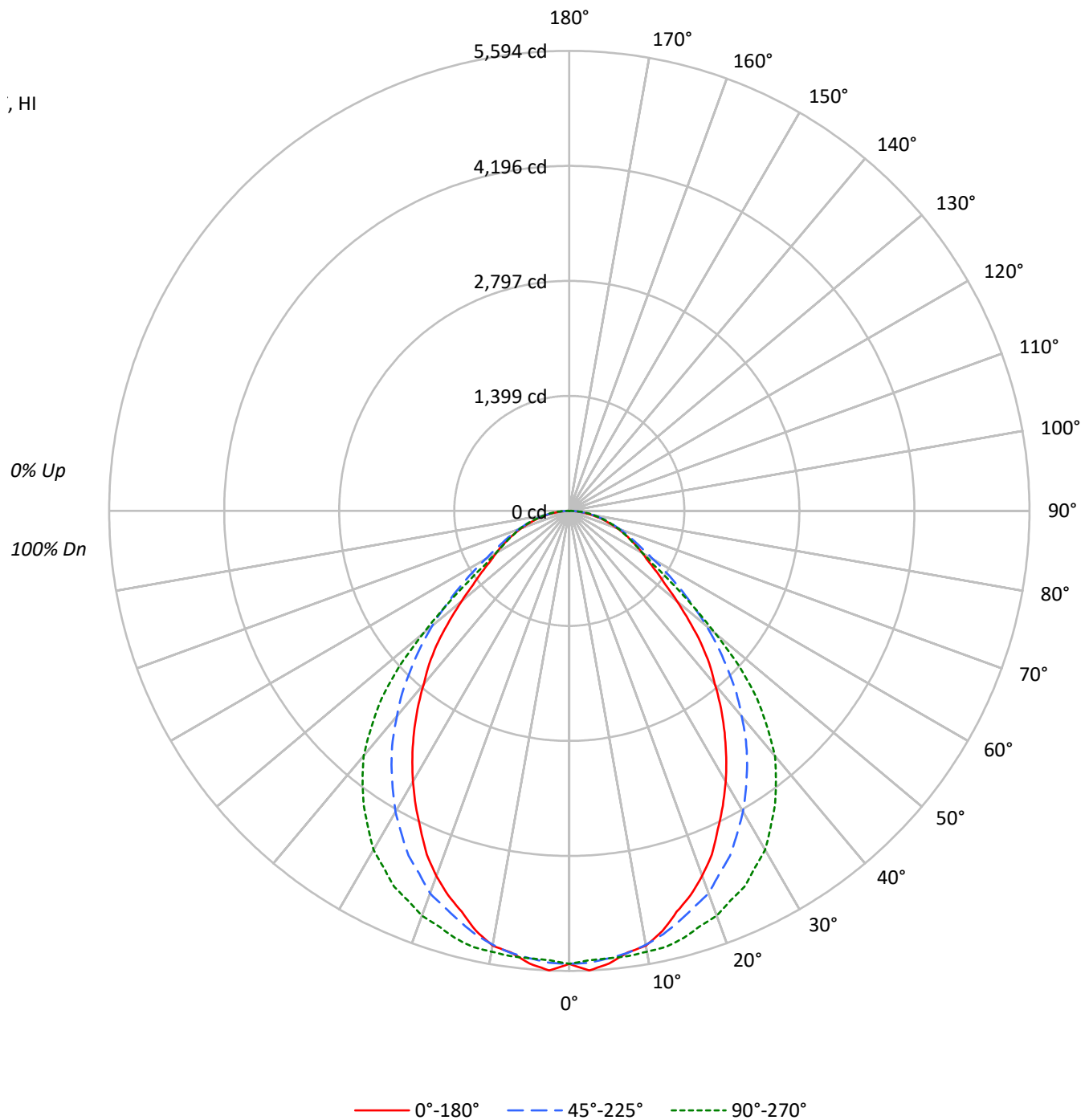
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11447.0 lumens
Efficiency: N/A
Efficacy: 112.9 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.27 / 1.23
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	70	80	74	69	77	72	68	75	71	67	67	67	67	65
4	87	76	68	62	84	74	67	61	72	66	60	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	56	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	44	39	49	43	38	48	42	38	38	38	38	36
9	61	48	41	35	60	48	40	35	47	40	35	46	39	35	45	39	35	35	35	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	32	32	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19542	19542	19542
5°	19678	19454	19454
10°	19338	19307	19606
15°	18538	18969	19748
20°	17833	18688	19780
25°	16730	18109	19735
30°	15572	17308	19503
35°	14254	16326	18882
40°	12762	15097	18015
45°	11325	13668	16197
50°	9423	12031	12774
55°	8026	10134	9284
60°	7277	8374	7338
65°	6853	7334	6829
70°	6447	6804	6656
75°	6007	6479	6361
80°	5501	5968	6144
85°	4779	5248	6880

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 16197 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	521.5	4.6
10°-20°	1467.3	12.8
20°-30°	2130.9	18.6
30°-40°	2372.8	20.7
40°-50°	2096.3	18.3
50°-60°	1375.6	12.0
60°-70°	842.3	7.4
70°-80°	490.1	4.3
80°-90°	150.1	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°	4119.7	36.0
0°-40°	6492.5	56.7
0°-60°	9964.4	87.0
0°-90°	11447.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11447.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5508	5508	5508	5508	5508	
5°	5525	5528	5462	5516	5462	521
15°	5047	5104	5164	5367	5376	1424
25°	4273	4376	4626	4921	5041	1966
35°	3291	3468	3769	4167	4359	2053
45°	2257	2394	2724	3090	3228	1727
55°	1298	1389	1638	1624	1501	1177
65°	816	831	874	848	813	812
75°	438	444	473	481	464	465
85°	117	123	129	146	169	132
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5507.8	5507.8	5507.8	5507.8	5507.8
2.5°	5593.7	5525.0	5499.2	5525.0	5467.7
5°	5525.0	5527.8	5461.9	5516.4	5461.9
7.5°	5416.1	5453.4	5421.8	5504.9	5461.9
10°	5367.4	5370.3	5358.8	5444.8	5441.9
12.5°	5232.8	5241.4	5272.9	5401.8	5430.4
15°	5046.6	5103.9	5164.1	5367.4	5376.0
17.5°	4900.6	4969.3	5049.5	5267.2	5293.0
20°	4723.0	4751.6	4949.3	5141.2	5238.5
22.5°	4525.4	4579.8	4771.7	5029.5	5126.8
25°	4273.3	4376.4	4625.6	4920.6	5040.9
27.5°	4041.3	4161.6	4419.4	4748.8	4889.1
30°	3800.7	3938.2	4224.6	4548.3	4760.2
32.5°	3551.6	3723.4	3995.5	4367.8	4554.0
35°	3290.9	3468.5	3769.2	4167.3	4359.2
37.5°	3030.3	3202.1	3528.6	3955.4	4127.2
40°	2755.3	2924.3	3259.4	3691.9	3889.5
42.5°	2517.6	2663.7	3007.4	3376.8	3560.1
45°	2257.0	2394.4	2723.8	3090.4	3227.9
47.5°	1970.5	2130.9	2451.7	2752.5	2806.9
50°	1707.0	1873.2	2179.6	2354.3	2314.2
52.5°	1475.0	1615.4	1896.1	1970.5	1876.0
55°	1297.5	1389.1	1638.3	1624.0	1500.8
57.5°	1134.2	1191.5	1403.4	1323.2	1205.8
60°	1025.4	1051.1	1180.0	1105.6	1034.0
62.5°	922.3	933.7	1002.5	962.4	907.9
65°	816.3	830.6	873.6	847.8	813.4
67.5°	718.9	724.6	764.7	759.0	716.0
70°	621.5	630.1	655.9	667.3	641.6
72.5°	527.0	535.6	561.4	572.8	549.9
75°	438.2	443.9	472.6	481.2	464.0
77.5°	352.3	363.7	380.9	395.3	375.2
80°	269.2	275.0	292.1	309.3	300.7
82.5°	189.0	197.6	209.1	232.0	237.7
85°	117.4	123.2	128.9	146.1	169.0
87.5°	45.8	48.7	57.3	63.0	83.1
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	17.86	19.34	18.22	19.65	19.97	18.51	19.99	18.87	20.30	20.62
	3H	19.46	20.78	19.84	21.11	21.47	19.94	21.27	20.32	21.60	21.96
	4H	20.08	21.32	20.48	21.67	22.05	20.55	21.79	20.95	22.14	22.52
	6H	20.55	21.69	20.96	22.06	22.45	21.04	22.18	21.45	22.55	22.94
	8H	20.70	21.79	21.13	22.18	22.58	21.23	22.32	21.66	22.71	23.12
	12H	20.80	21.84	21.23	22.22	22.65	21.40	22.45	21.83	22.83	23.26
4H	2H	18.48	19.72	18.88	20.07	20.45	19.00	20.25	19.40	20.59	20.97
	3H	20.30	21.33	20.71	21.73	22.13	20.70	21.73	21.11	22.13	22.53
	4H	21.04	21.96	21.47	22.38	22.82	21.45	22.38	21.89	22.80	23.23
	6H	21.64	22.44	22.09	22.88	23.34	22.09	22.89	22.55	23.34	23.80
	8H	21.83	22.59	22.30	23.03	23.50	22.34	23.10	22.81	23.54	24.01
	12H	21.97	22.65	22.46	23.13	23.60	22.57	23.24	23.05	23.72	24.19
8H	4H	21.36	22.11	21.82	22.55	23.02	21.72	22.48	22.19	22.92	23.39
	6H	22.08	22.70	22.58	23.20	23.67	22.50	23.12	23.00	23.61	24.09
	8H	22.35	22.91	22.87	23.42	23.91	22.84	23.40	23.36	23.91	24.40
	12H	22.57	23.07	23.08	23.56	24.13	23.16	23.66	23.67	24.15	24.72
12H	4H	21.39	22.06	21.87	22.54	23.01	21.74	22.42	22.23	22.89	23.37
	6H	22.14	22.71	22.66	23.22	23.71	22.54	23.11	23.06	23.62	24.10
	8H	22.48	22.97	22.99	23.47	24.03	22.95	23.45	23.46	23.94	24.50