

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: P895430

Luminaire Tested: 8TMB-SC3-LVR-UNV-CC93-HI-3500K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895430
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-CC93-HI-3500K
Description: Selectable 8FT MICROBAY LINEAR BAY with LOUVER, 90CRI, 3500K CCT, HI lumen setting
Light Source: -
Ballast/Driver: -

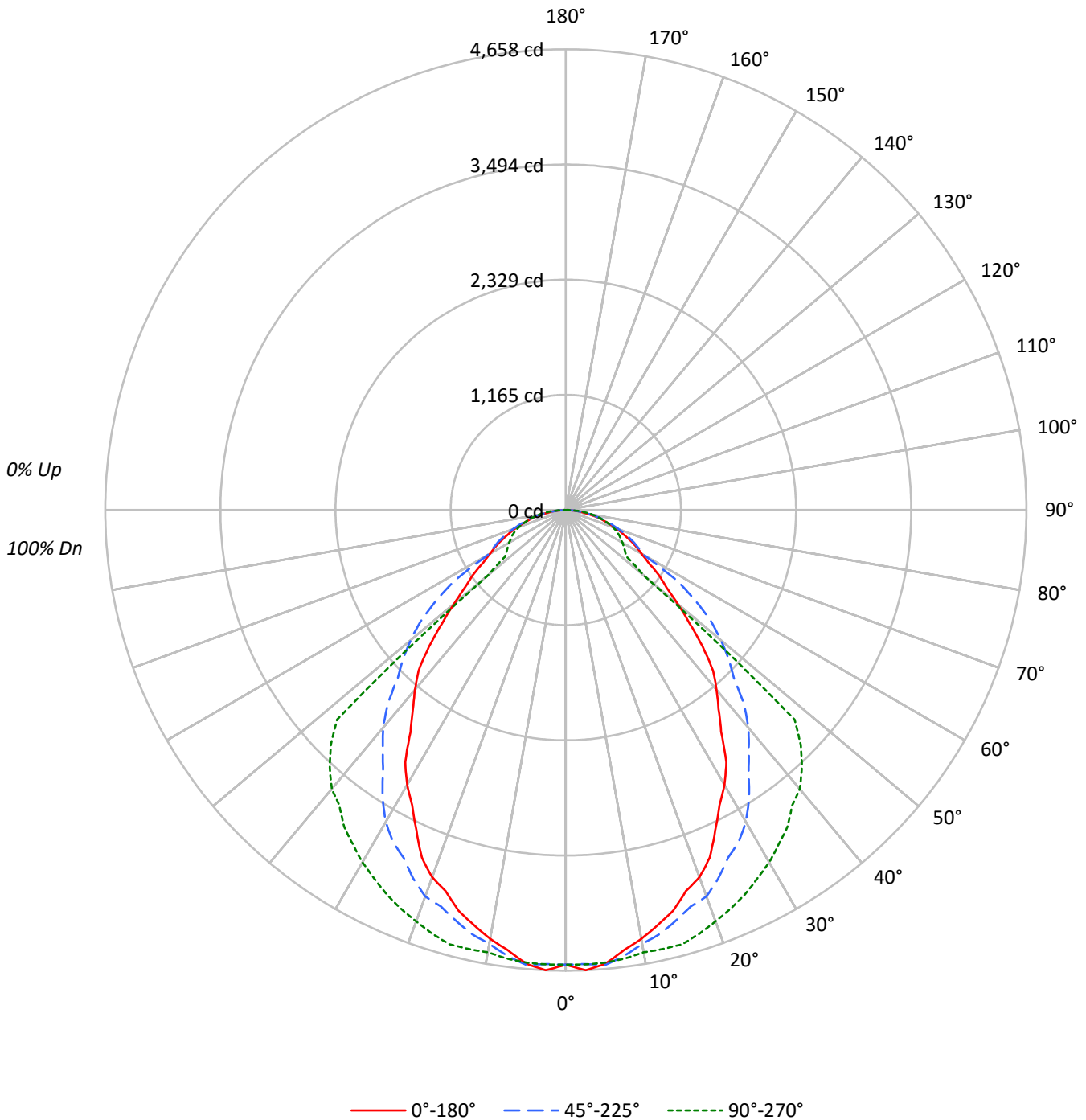
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9810.0 lumens
Efficiency: N/A
Efficacy: 96.7 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 (A_{in}): 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°	16311	16311	16311
5°	16398	16440	16356
10°	15860	16046	16359
15°	15403	15791	16696
20°	14920	15700	16710
25°	13999	15193	16784
30°	13149	14919	16852
35°	11857	13953	16932
40°	10983	13310	17051
45°	9825	12063	16858
50°	8152	11301	5663
55°	7102	9919	4531
60°	6281	6464	4698
65°	5973	6287	4987
70°	5602	5943	5261
75°	5214	5600	5407
80°	4749	5278	5660
85°	4205	4490	6119

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 16858 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	436.0	4.4
10°-20°	1226.6	12.5
20°-30°	1804.4	18.4
30°-40°	2063.5	21.0
40°-50°	1953.9	19.9
50°-60°	1076.5	11.0
60°-70°	691.2	7.0
70°-80°	426.6	4.3
80°-90°	131.3	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°	3467.0	35.3
0°-40°	5530.5	56.4
0°-60°	8561.0	87.3
0°-90°	9810.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9810.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4597	4597	4597	4597	4597	
5°	4604	4642	4616	4616	4592	432
15°	4193	4245	4299	4524	4545	1177
25°	3576	3735	3881	4134	4287	1647
35°	2738	2972	3221	3688	3909	1730
45°	1958	2144	2404	3085	3360	1498
55°	1148	1204	1604	826	732	1027
65°	711	735	749	667	594	704
75°	380	387	408	430	394	405
85°	103	103	110	127	150	115
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4597.0	4597.0	4597.0	4597.0	4597.0
2.5°	4658.0	4669.8	4594.6	4592.3	4599.3
5°	4604.0	4641.6	4615.8	4615.8	4592.3
7.5°	4489.0	4552.4	4545.3	4599.3	4573.5
10°	4402.1	4453.8	4453.8	4594.6	4540.6
12.5°	4298.8	4357.5	4390.4	4538.3	4545.3
15°	4193.2	4244.8	4298.8	4524.2	4545.3
17.5°	4040.6	4134.5	4202.6	4423.2	4491.3
20°	3951.3	4007.7	4157.9	4336.4	4425.6
22.5°	3803.4	3885.6	4031.2	4230.7	4362.2
25°	3575.7	3735.3	3880.9	4134.5	4287.1
27.5°	3364.4	3484.1	3784.6	4052.3	4197.9
30°	3209.4	3303.3	3641.4	3932.6	4113.3
32.5°	3021.6	3174.2	3448.9	3815.2	4007.7
35°	2737.5	2972.3	3221.2	3688.4	3909.1
37.5°	2538.0	2700.0	3038.0	3556.9	3761.2
40°	2371.3	2519.2	2873.7	3392.6	3681.3
42.5°	2204.6	2324.3	2667.1	3270.5	3533.4
45°	1958.1	2143.5	2404.1	3085.0	3359.7
47.5°	1699.8	1897.0	2232.8	2927.7	3139.0
50°	1476.8	1634.1	2047.3	2615.4	1026.0
52.5°	1281.9	1427.5	1850.1	946.2	774.8
55°	1148.1	1204.4	1603.5	826.4	732.5
57.5°	988.4	1080.0	1345.3	786.5	694.9
60°	885.1	925.0	910.9	746.6	662.1
62.5°	802.9	831.1	826.4	706.7	624.5
65°	711.4	734.9	748.9	666.8	594.0
67.5°	619.8	640.9	662.1	617.5	551.7
70°	540.0	554.1	572.9	558.8	507.1
72.5°	457.8	474.3	486.0	497.7	448.4
75°	380.3	387.4	408.5	429.6	394.4
77.5°	309.9	317.0	331.0	354.5	335.7
80°	232.4	239.5	258.3	277.0	277.0
82.5°	164.3	169.0	180.8	206.6	218.3
85°	103.3	103.3	110.3	126.8	150.3
87.5°	39.9	39.9	47.0	56.3	75.1
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	17.65	19.13	18.02	19.45	19.76	15.45	16.93	15.82	17.25	17.56
	3H	19.18	20.50	19.55	20.83	21.19	17.78	19.11	18.16	19.44	19.80
	4H	19.77	21.01	20.17	21.36	21.74	18.73	19.98	19.13	20.32	20.70
	6H	20.23	21.37	20.64	21.74	22.13	19.52	20.66	19.93	21.03	21.42
	8H	20.37	21.46	20.80	21.85	22.25	19.83	20.92	20.26	21.31	21.71
	12H	20.47	21.51	20.90	21.89	22.32	20.08	21.12	20.51	21.50	21.93
4H	2H	18.20	19.44	18.60	19.79	20.17	16.56	17.80	16.96	18.15	18.53
	3H	19.97	21.00	20.38	21.40	21.80	19.00	20.03	19.41	20.43	20.83
	4H	20.69	21.62	21.13	22.03	22.47	20.07	20.99	20.50	21.41	21.85
	6H	21.28	22.08	21.74	22.53	22.99	20.96	21.76	21.41	22.20	22.67
	8H	21.47	22.22	21.93	22.66	23.13	21.31	22.06	21.77	22.50	22.97
	12H	21.60	22.28	22.09	22.76	23.23	21.60	22.27	22.08	22.75	23.22
8H	4H	21.00	21.75	21.46	22.20	22.67	20.45	21.21	20.92	21.65	22.12
	6H	21.71	22.34	22.21	22.83	23.31	21.49	22.11	21.99	22.61	23.08
	8H	21.97	22.53	22.49	23.04	23.53	21.93	22.50	22.45	23.01	23.50
	12H	22.18	22.68	22.69	23.17	23.74	22.32	22.82	22.83	23.31	23.88
12H	4H	21.04	21.71	21.52	22.19	22.66	20.49	21.16	20.97	21.64	22.11
	6H	21.78	22.34	22.29	22.85	23.34	21.55	22.12	22.07	22.63	23.12
	8H	22.10	22.59	22.61	23.09	23.65	22.06	22.56	22.57	23.05	23.62