

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: P895445

Luminaire Tested: 8TMB-SC3-LVRA-UNV-CC83-MID-3500K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895445
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-CC83-MID-3500K
Description: Selectable 8FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 80CRI, 3500K CCT, MI lumen setting
Light Source: -
Ballast/Driver: -

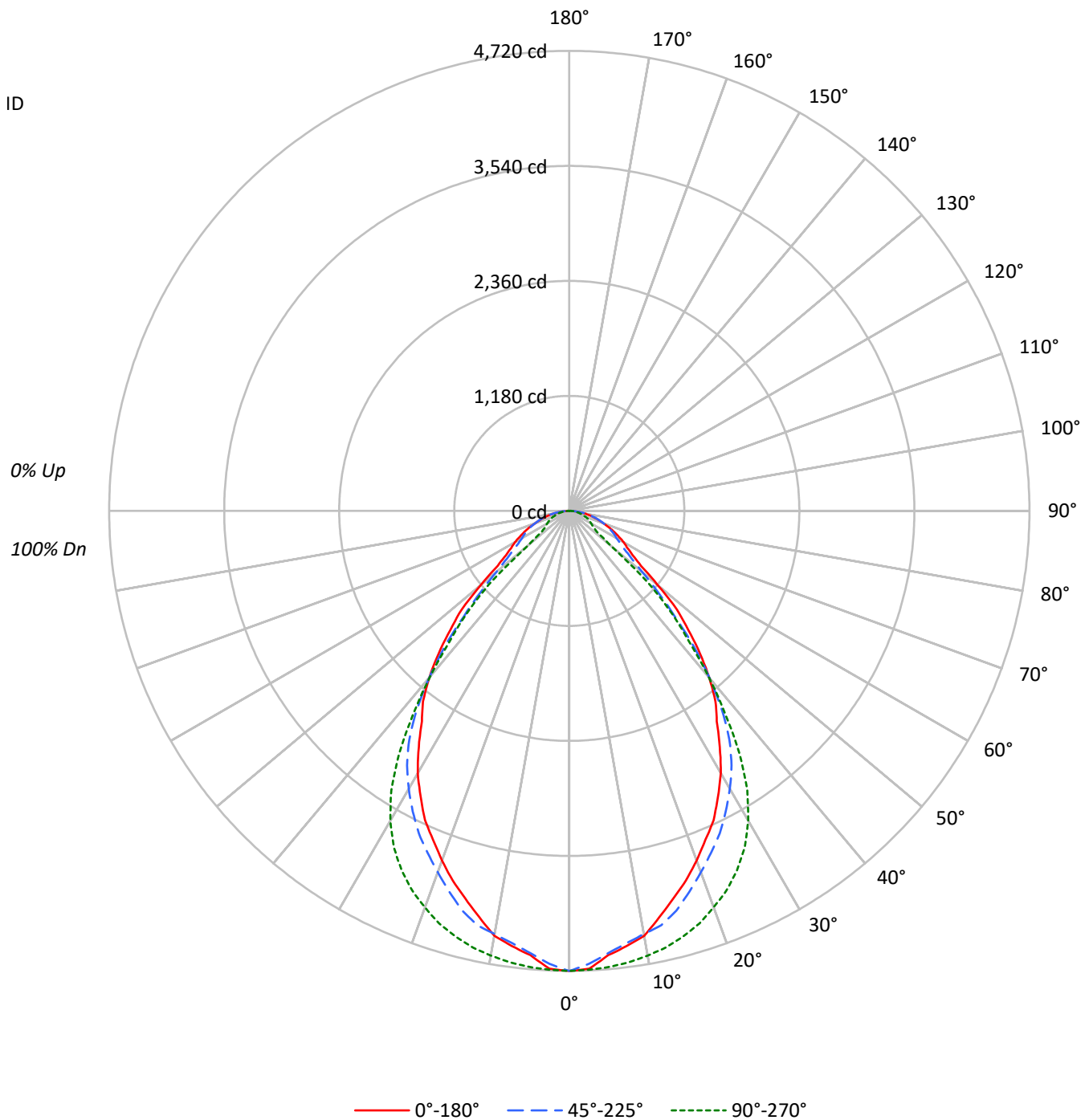
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7661.0 lumens
Efficiency: N/A
Efficacy: 114.5 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

TEST NUMBER: P895445
CATALOG NUMBER: 8TMB-SC3-LVRA-UNV-CC83-MID-3500K

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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°	16749	16749	16749
5°	16297	16223	16730
10°	15951	15880	16691
15°	15127	15592	16597
20°	14411	14897	16344
25°	13708	14293	15927
30°	12735	13493	15038
35°	11419	12399	13190
40°	10346	10368	10312
45°	8650	7661	7472
50°	6534	5392	3056
55°	4914	4312	1926
60°	4567	3971	1856
65°	4249	3963	1859
70°	3887	3887	1830
75°	3686	3786	1768
80°	3406	3580	1814
85°	2972	3118	1983

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 8852 cd/sqm



TEST NUMBER: P895445

CATALOG NUMBER: 8TMB-SC3-LVRA-UNV-CC83-MID-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	436.0	5.7
10°-20°	1201.4	15.7
20°-30°	1703.7	22.2
30°-40°	1755.2	22.9
40°-50°	1225.9	16.0
50°-60°	588.2	7.7
60°-70°	412.7	5.4
70°-80°	258.0	3.4
80°-90°	79.8	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°	3341.2	43.6
0°-40°	5096.3	66.5
0°-60°	6910.5	90.2
0°-90°	7661.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7661.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4720	4720	4720	4720	4720	
5°	4576	4570	4555	4674	4697	433
15°	4118	4149	4245	4366	4518	1160
25°	3501	3537	3651	3898	4068	1601
35°	2636	2708	2863	2922	3045	1661
45°	1724	1764	1527	1449	1489	1328
55°	794	756	697	446	311	744
65°	506	473	472	359	221	501
75°	269	265	276	238	129	283
85°	73	73	77	75	49	82
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4720.4	4720.4	4720.4	4720.4	4720.4
2.5°	4702.1	4687.5	4652.3	4716.7	4711.9
5°	4575.6	4569.5	4554.9	4674.2	4697.3
7.5°	4503.8	4491.7	4474.6	4606.0	4670.5
10°	4427.2	4441.8	4407.7	4528.2	4632.8
12.5°	4269.0	4308.0	4354.2	4447.9	4586.6
15°	4118.2	4148.6	4244.7	4366.4	4518.4
17.5°	3977.0	4012.3	4095.1	4277.5	4439.3
20°	3816.5	3865.1	3945.4	4179.0	4328.6
22.5°	3651.0	3696.0	3797.0	4047.6	4214.3
25°	3501.4	3536.6	3651.0	3898.0	4068.3
27.5°	3303.1	3368.7	3477.0	3715.5	3894.3
30°	3108.4	3164.4	3293.3	3494.1	3670.5
32.5°	2873.6	2955.1	3097.4	3250.7	3397.9
35°	2636.4	2708.1	2862.6	2922.3	3045.1
37.5°	2463.6	2483.1	2570.7	2563.4	2632.7
40°	2233.7	2272.6	2238.5	2147.3	2226.4
42.5°	1985.5	2031.7	1894.2	1788.4	1816.4
45°	1723.9	1764.1	1526.8	1449.0	1489.1
47.5°	1497.6	1494.0	1231.2	1178.9	1122.9
50°	1183.7	1222.7	976.9	879.6	553.6
52.5°	924.6	939.2	805.4	562.1	363.8
55°	794.4	755.5	697.1	446.5	311.4
57.5°	705.6	657.0	618.0	414.9	284.7
60°	643.6	588.8	559.6	394.2	261.6
62.5°	573.0	530.4	519.5	375.9	240.9
65°	506.1	473.3	472.0	358.9	221.4
67.5°	439.2	420.9	425.8	338.2	199.5
70°	374.7	371.1	374.7	311.4	176.4
72.5°	320.0	316.3	326.0	277.4	150.9
75°	268.9	265.2	276.2	238.5	129.0
77.5°	214.1	216.6	223.9	198.3	108.3
80°	166.7	166.7	175.2	155.7	88.8
82.5°	119.2	120.4	125.3	114.4	69.3
85°	73.0	73.0	76.6	75.4	48.7
87.5°	24.3	28.0	32.8	35.3	24.3
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	15.44	16.79	15.80	17.11	17.42	11.77	13.12	12.14	13.44	13.75
	3H	17.18	18.38	17.56	18.71	19.08	13.75	14.95	14.13	15.28	15.65
	4H	17.85	18.98	18.25	19.33	19.71	14.45	15.58	14.85	15.93	16.31
	6H	18.36	19.39	18.77	19.76	20.16	14.97	16.01	15.39	16.38	16.78
	8H	18.53	19.51	18.96	19.90	20.31	15.16	16.15	15.59	16.54	16.94
	12H	18.64	19.58	19.07	19.96	20.39	15.30	16.24	15.73	16.62	17.05
4H	2H	15.97	17.10	16.37	17.45	17.83	13.39	14.52	13.80	14.87	15.25
	3H	17.95	18.88	18.36	19.28	19.68	15.57	16.50	15.98	16.90	17.31
	4H	18.75	19.58	19.18	20.00	20.44	16.45	17.29	16.89	17.70	18.15
	6H	19.39	20.12	19.85	20.56	21.03	17.09	17.82	17.56	18.26	18.73
	8H	19.61	20.29	20.08	20.73	21.20	17.30	17.98	17.77	18.43	18.90
	12H	19.77	20.37	20.25	20.85	21.32	17.46	18.06	17.95	18.54	19.02
8H	4H	19.03	19.71	19.50	20.16	20.63	17.10	17.78	17.57	18.22	18.69
	6H	19.82	20.37	20.32	20.87	21.35	17.96	18.52	18.46	19.01	19.49
	8H	20.12	20.62	20.64	21.13	21.62	18.29	18.79	18.81	19.30	19.79
	12H	20.35	20.79	20.87	21.29	21.86	18.55	18.99	19.07	19.49	20.06
12H	4H	19.05	19.65	19.53	20.13	20.60	17.17	17.77	17.66	18.25	18.73
	6H	19.87	20.37	20.39	20.88	21.37	18.10	18.60	18.62	19.11	19.60
	8H	20.23	20.67	20.75	21.17	21.74	18.51	18.95	19.03	19.45	20.02