

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: P895239

Luminaire Tested: 8TMB-8SL-LVRA-UNV-L840

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895239
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-8SL-LVRA-UNV-L840
Description: 8000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 80CRI, 4000K CCT
Light Source: -
Ballast/Driver: -

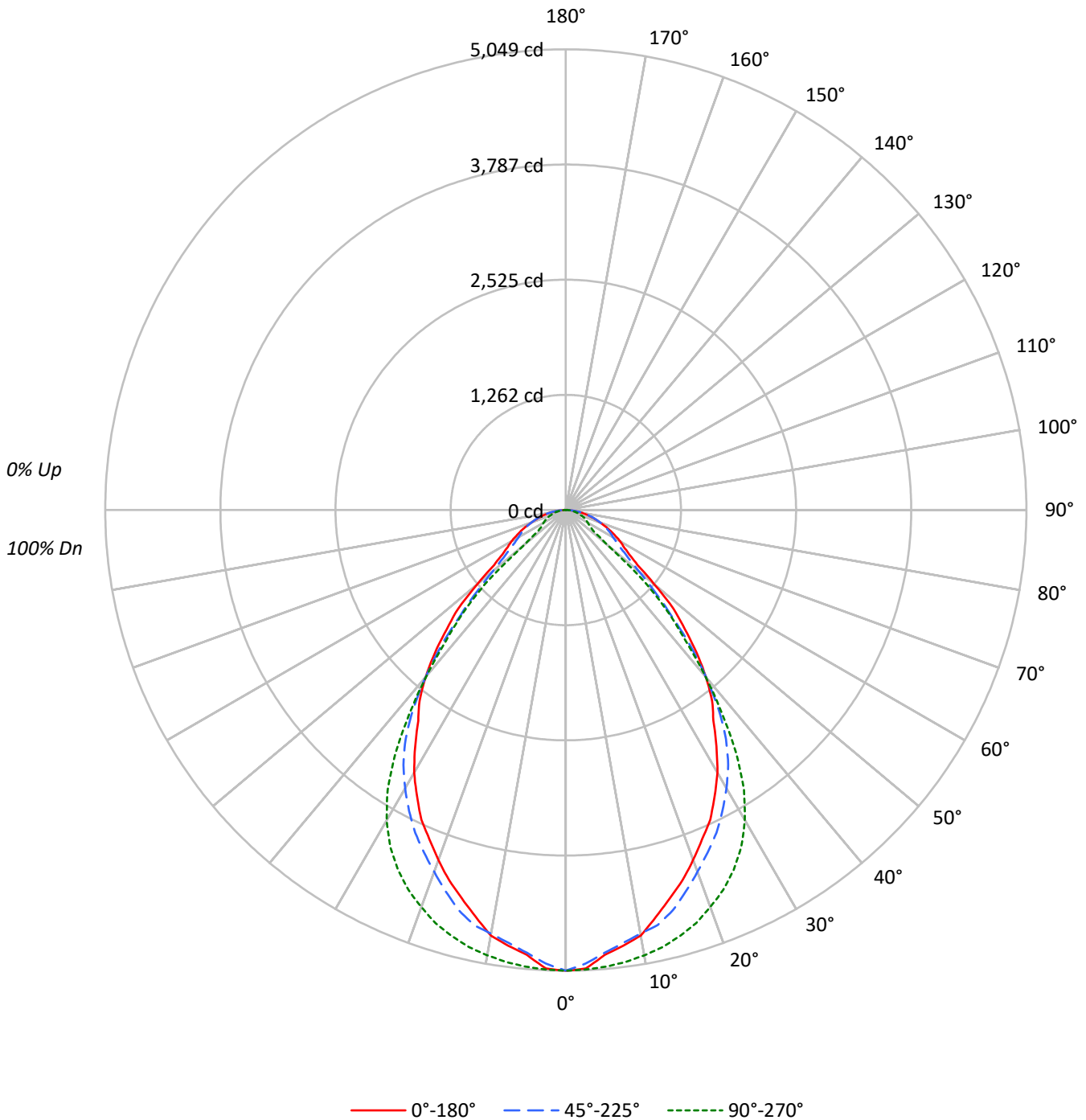
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8194.0 lumens
Efficiency: N/A
Efficacy: 137.5 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): 59.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 3.8
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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88		
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78		
3	96	87	80	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69		
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	62		
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	55		
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	50		
7	73	61	54	48	71	60	53	48	59	52	48	58	52	47	56	51	47	45		
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	41		
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	38		
10	61	49	42	37	60	48	42	37	47	41	37	47	41	37	46	40	37	35		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17914	17914	17914
5°	17431	17352	17894
10°	17060	16985	17853
15°	16180	16677	17752
20°	15413	15934	17481
25°	14661	15288	17035
30°	13621	14431	16084
35°	12214	13262	14108
40°	11066	11090	11030
45°	9252	8195	7992
50°	6989	5768	3268
55°	5256	4612	2061
60°	4885	4248	1986
65°	4545	4239	1988
70°	4158	4158	1958
75°	3943	4050	1890
80°	3643	3829	1941
85°	3179	3338	2117

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 9468 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	466.4	5.7
10°-20°	1285.0	15.7
20°-30°	1822.2	22.2
30°-40°	1877.3	22.9
40°-50°	1311.2	16.0
50°-60°	629.2	7.7
60°-70°	441.4	5.4
70°-80°	276.0	3.4
80°-90°	85.4	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°	3573.6	43.6
0°-40°	5450.9	66.5
0°-60°	7391.3	90.2
0°-90°	8194.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8194.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5049	5049	5049	5049	5049	
5°	4894	4887	4872	4999	5024	463
15°	4405	4437	4540	4670	4833	1240
25°	3745	3783	3905	4169	4351	1712
35°	2820	2897	3062	3126	3257	1777
45°	1844	1887	1633	1550	1593	1421
55°	850	808	746	478	333	796
65°	541	506	505	384	237	536
75°	288	284	295	255	138	303
85°	78	78	82	81	52	87
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5048.8	5048.8	5048.8	5048.8	5048.8
2.5°	5029.3	5013.7	4975.9	5044.9	5039.7
5°	4893.9	4887.4	4871.8	4999.3	5024.1
7.5°	4817.2	4804.2	4785.9	4926.5	4995.4
10°	4735.2	4750.8	4714.4	4843.2	4955.1
12.5°	4566.0	4607.7	4657.1	4757.3	4905.7
15°	4404.7	4437.2	4540.0	4670.1	4832.8
17.5°	4253.7	4291.5	4380.0	4575.1	4748.2
20°	4082.0	4134.0	4219.9	4469.7	4629.8
22.5°	3905.0	3953.2	4061.2	4329.2	4507.5
25°	3745.0	3782.7	3905.0	4169.2	4351.3
27.5°	3532.9	3603.1	3718.9	3974.0	4165.3
30°	3324.7	3384.5	3522.4	3737.1	3925.8
32.5°	3073.5	3160.7	3312.9	3476.9	3634.4
35°	2819.8	2896.6	3061.8	3125.6	3257.0
37.5°	2635.0	2655.8	2749.5	2741.7	2815.9
40°	2389.1	2430.7	2394.3	2296.7	2381.3
42.5°	2123.6	2173.1	2026.0	1912.8	1942.7
45°	1843.9	1886.8	1633.1	1549.8	1592.7
47.5°	1601.8	1597.9	1316.9	1260.9	1201.0
50°	1266.1	1307.7	1044.9	940.8	592.1
52.5°	988.9	1004.6	861.4	601.2	389.1
55°	849.7	808.1	745.6	477.6	333.1
57.5°	754.7	702.7	661.0	443.7	304.5
60°	688.4	629.8	598.6	421.6	279.8
62.5°	612.9	567.3	555.6	402.1	257.6
65°	541.3	506.2	504.9	383.9	236.8
67.5°	469.7	450.2	455.4	361.7	213.4
70°	400.8	396.9	400.8	333.1	188.7
72.5°	342.2	338.3	348.7	296.7	161.4
75°	287.6	283.7	295.4	255.0	137.9
77.5°	229.0	231.6	239.4	212.1	115.8
80°	178.3	178.3	187.4	166.6	95.0
82.5°	127.5	128.8	134.0	122.3	74.2
85°	78.1	78.1	82.0	80.7	52.0
87.5°	26.0	29.9	35.1	37.7	26.0
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	15.67	17.03	16.04	17.34	17.65	12.00	13.36	12.37	13.67	13.99
	3H	17.41	18.62	17.79	18.95	19.31	13.98	15.19	14.36	15.52	15.88
	4H	18.08	19.21	18.48	19.56	19.94	14.68	15.81	15.09	16.16	16.54
	6H	18.59	19.63	19.00	20.00	20.39	15.21	16.25	15.62	16.62	17.01
	8H	18.76	19.75	19.19	20.14	20.54	15.39	16.38	15.82	16.77	17.17
	12H	18.87	19.81	19.30	20.20	20.63	15.53	16.47	15.96	16.86	17.29
4H	2H	16.20	17.33	16.60	17.68	18.06	13.63	14.75	14.03	15.10	15.49
	3H	18.18	19.11	18.59	19.51	19.92	15.80	16.73	16.22	17.14	17.54
	4H	18.98	19.82	19.42	20.24	20.68	16.68	17.52	17.12	17.94	18.38
	6H	19.63	20.35	20.09	20.79	21.26	17.33	18.05	17.79	18.50	18.96
	8H	19.85	20.52	20.31	20.97	21.44	17.54	18.21	18.00	18.66	19.13
	12H	20.00	20.60	20.48	21.08	21.55	17.69	18.29	18.18	18.78	19.25
8H	4H	19.27	19.94	19.73	20.39	20.86	17.33	18.01	17.80	18.46	18.93
	6H	20.05	20.61	20.55	21.10	21.58	18.19	18.75	18.70	19.25	19.73
	8H	20.35	20.85	20.87	21.36	21.86	18.52	19.02	19.04	19.54	20.03
	12H	20.59	21.03	21.10	21.52	22.09	18.79	19.23	19.30	19.72	20.29
12H	4H	19.28	19.88	19.77	20.37	20.84	17.41	18.01	17.89	18.49	18.96
	6H	20.10	20.60	20.62	21.12	21.61	18.33	18.83	18.85	19.35	19.84
	8H	20.47	20.91	20.98	21.40	21.97	18.75	19.19	19.26	19.68	20.25