

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: P895014

Luminaire Tested: 8TMB-4SL-LVRA-UNV-L835

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895014
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-4SL-LVRA-UNV-L835
Description: 4000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 80CRI, 3500K CCT
Light Source: -
Ballast/Driver: -

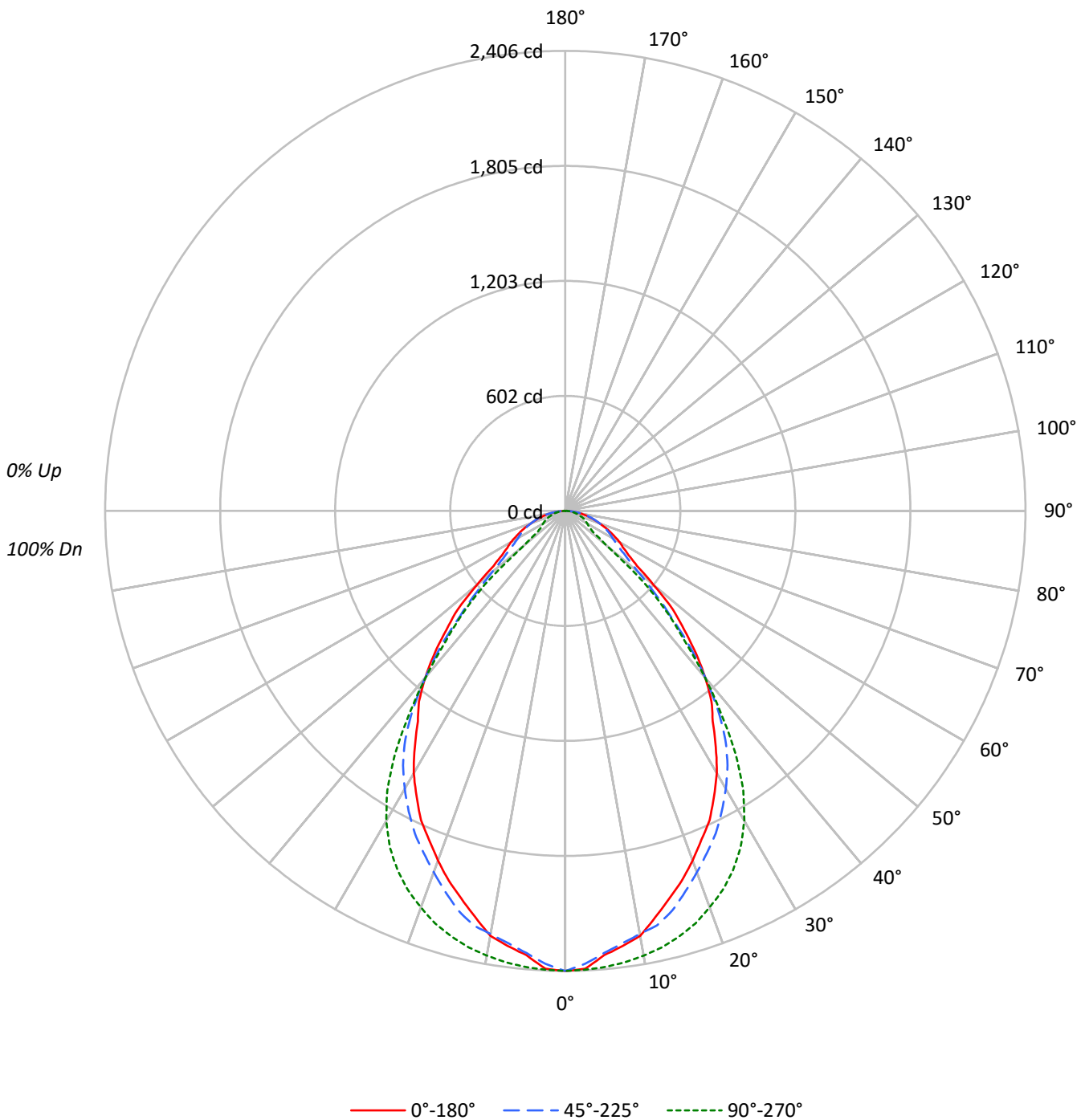
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3905.0 lumens
Efficiency: N/A
Efficacy: 141.5 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): 27.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 4.5
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	102	100	
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	90	88	
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	80	78	
3	96	87	80	75	94	86	80	75	83	78	73	80	76	72	78	74	71	71	69	
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	63	62	
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	57	55	
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	52	50	
7	73	61	54	48	71	60	53	48	59	52	48	58	52	47	56	51	47	47	45	
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	43	41	
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	40	38	
10	61	49	42	37	60	48	42	37	47	41	37	47	41	37	46	40	37	37	35	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8537	8537	8537
5°	8307	8270	8528
10°	8130	8095	8508
15°	7711	7948	8460
20°	7345	7594	8331
25°	6987	7286	8118
30°	6491	6878	7665
35°	5821	6320	6723
40°	5274	5285	5256
45°	4409	3905	3809
50°	3331	2749	1558
55°	2505	2198	982
60°	2328	2025	946
65°	2166	2020	948
70°	1981	1981	933
75°	1878	1930	901
80°	1737	1825	926
85°	1514	1592	1010

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 4512 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.3	5.7
10°-20°	612.4	15.7
20°-30°	868.4	22.2
30°-40°	894.6	22.9
40°-50°	624.9	16.0
50°-60°	299.8	7.7
60°-70°	210.4	5.4
70°-80°	131.5	3.4
80°-90°	40.7	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°	1703.1	43.6
0°-40°	2597.7	66.5
0°-60°	3522.4	90.2
0°-90°	3905.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3905.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2406	2406	2406	2406	2406	
5°	2332	2329	2322	2382	2394	221
15°	2099	2115	2164	2226	2303	591
25°	1785	1803	1861	1987	2074	816
35°	1344	1380	1459	1490	1552	847
45°	879	899	778	739	759	677
55°	405	385	355	228	159	379
65°	258	241	241	183	113	256
75°	137	135	141	122	66	144
85°	37	37	39	38	25	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2406.1	2406.1	2406.1	2406.1	2406.1
2.5°	2396.8	2389.4	2371.4	2404.2	2401.8
5°	2332.3	2329.2	2321.8	2382.5	2394.3
7.5°	2295.7	2289.5	2280.8	2347.8	2380.7
10°	2256.6	2264.1	2246.7	2308.1	2361.4
12.5°	2176.0	2195.9	2219.4	2267.2	2337.9
15°	2099.1	2114.6	2163.6	2225.6	2303.2
17.5°	2027.2	2045.2	2087.3	2180.4	2262.8
20°	1945.3	1970.1	2011.1	2130.1	2206.4
22.5°	1861.0	1883.9	1935.4	2063.2	2148.1
25°	1784.7	1802.7	1861.0	1986.9	2073.7
27.5°	1683.6	1717.1	1772.3	1893.9	1985.0
30°	1584.4	1613.0	1678.7	1781.0	1870.9
32.5°	1464.7	1506.3	1578.8	1657.0	1732.0
35°	1343.8	1380.4	1459.2	1489.5	1552.2
37.5°	1255.8	1265.7	1310.3	1306.6	1342.0
40°	1138.6	1158.4	1141.0	1094.5	1134.8
42.5°	1012.0	1035.6	965.5	911.6	925.9
45°	878.7	899.2	778.3	738.6	759.0
47.5°	763.4	761.5	627.6	600.9	572.4
50°	603.4	623.2	498.0	448.4	282.2
52.5°	471.3	478.7	410.5	286.5	185.4
55°	404.9	385.1	355.3	227.6	158.8
57.5°	359.7	334.9	315.0	211.5	145.1
60°	328.0	300.1	285.3	200.9	133.3
62.5°	292.1	270.4	264.8	191.6	122.8
65°	258.0	241.2	240.6	182.9	112.9
67.5°	223.9	214.6	217.0	172.4	101.7
70°	191.0	189.1	191.0	158.8	89.9
72.5°	163.1	161.2	166.2	141.4	76.9
75°	137.0	135.2	140.8	121.5	65.7
77.5°	109.1	110.4	114.1	101.1	55.2
80°	85.0	85.0	89.3	79.4	45.3
82.5°	60.8	61.4	63.9	58.3	35.3
85°	37.2	37.2	39.1	38.4	24.8
87.5°	12.4	14.3	16.7	18.0	12.4
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	13.10	14.45	13.46	14.76	15.08	9.43	10.78	9.80	11.10	11.41
	3H	14.84	16.04	15.22	16.37	16.74	11.41	12.61	11.79	12.94	13.31
	4H	15.51	16.63	15.91	16.99	17.37	12.11	13.24	12.51	13.59	13.97
	6H	16.01	17.05	16.43	17.42	17.82	12.63	13.67	13.05	14.04	14.43
	8H	16.19	17.17	16.62	17.56	17.97	12.82	13.80	13.25	14.19	14.60
	12H	16.30	17.24	16.73	17.62	18.05	12.96	13.90	13.39	14.28	14.71
4H	2H	13.63	14.76	14.03	15.11	15.49	11.05	12.18	11.45	12.53	12.91
	3H	15.60	16.54	16.02	16.94	17.34	13.23	14.16	13.64	14.56	14.97
	4H	16.41	17.24	16.84	17.66	18.10	14.11	14.94	14.54	15.36	15.81
	6H	17.05	17.77	17.51	18.22	18.68	14.75	15.48	15.21	15.92	16.39
	8H	17.27	17.95	17.74	18.39	18.86	14.96	15.64	15.43	16.08	16.55
	12H	17.42	18.02	17.91	18.51	18.98	15.12	15.72	15.60	16.20	16.67
8H	4H	16.69	17.37	17.16	17.81	18.28	14.76	15.43	15.23	15.88	16.35
	6H	17.47	18.03	17.98	18.53	19.01	15.62	16.18	16.12	16.67	17.15
	8H	17.78	18.28	18.30	18.79	19.28	15.95	16.45	16.47	16.96	17.45
	12H	18.01	18.45	18.53	18.95	19.52	16.21	16.65	16.72	17.15	17.71
12H	4H	16.71	17.31	17.19	17.79	18.26	14.83	15.43	15.32	15.91	16.39
	6H	17.53	18.03	18.05	18.54	19.03	15.76	16.26	16.28	16.77	17.26
	8H	17.89	18.33	18.41	18.83	19.40	16.17	16.61	16.68	17.11	17.67