

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: P893938

Luminaire Tested: 4MB-8HL-LVR-UNV-L835

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893938
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-6)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4MB-8HL-LVR-UNV-L835
Description: 8000 Lumen 4FT MICROBAY LINEAR BAY with LOUVER, 80CRI, 3500K CCT
Light Source: -
Ballast/Driver: -

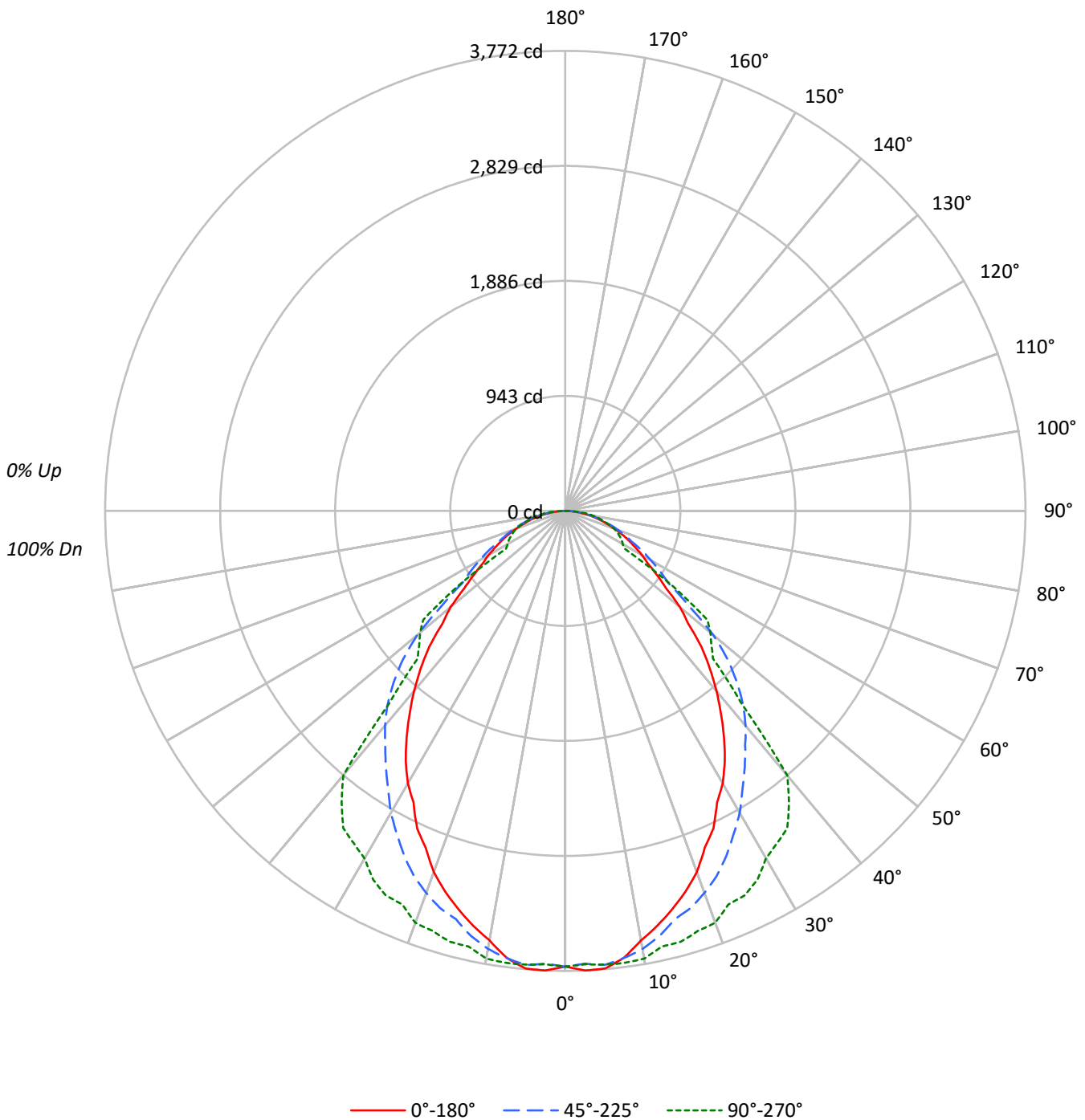
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7820.0 lumens
Efficiency: N/A
Efficacy: 135.1 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.32 / 1.26
Luminous Opening: Rectangular (W 0.38' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 57.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.999
Total Harmonic Distortion (THDi): 4.23
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	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	89	87	
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77	77	75	
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	75	70	67	67	65	
4	86	76	68	62	84	74	67	61	72	66	60	70	64	60	68	63	59	59	57	
5	80	68	60	54	78	67	60	54	65	59	53	63	57	53	62	56	52	52	50	
6	74	62	54	48	73	61	54	48	60	53	48	58	52	47	56	51	47	47	45	
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	42	40	
8	65	52	44	39	63	52	44	39	50	43	39	49	43	38	48	42	38	38	36	
9	61	48	41	35	59	48	40	35	47	40	35	46	39	35	45	39	35	35	33	
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	32	30	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	26581	26581	26581
5°	26902	26690	26675
10°	25842	26349	26927
15°	24916	25531	26945
20°	23867	25246	27215
25°	22550	24505	27313
30°	21192	23481	27033
35°	19707	22271	27560
40°	17904	21349	26281
45°	15864	20038	17233
50°	13577	17512	17197
55°	11378	12779	13378
60°	10351	11538	7744
65°	9697	10214	8275
70°	8924	9677	8856
75°	8385	9077	9020
80°	7822	8588	9666
85°	6719	7168	10302

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 20038 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	355.0	4.5
10°-20°	993.3	12.7
20°-30°	1447.6	18.5
30°-40°	1656.1	21.2
40°-50°	1416.7	18.1
50°-60°	934.2	11.9
60°-70°	564.8	7.2
70°-80°	345.5	4.4
80°-90°	106.7	1.4
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°	2795.9	35.8
0°-40°	4452.0	56.9
0°-60°	6802.9	87.0
0°-90°	7820.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7820.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3736	3736	3736	3736	3736	
5°	3767	3763	3737	3729	3735	353
15°	3383	3422	3466	3688	3658	951
25°	2872	2916	3122	3388	3479	1314
35°	2269	2383	2564	2967	3173	1413
45°	1577	1698	1991	1861	1713	1207
55°	917	969	1030	1221	1078	834
65°	576	590	607	542	492	569
75°	305	313	330	346	328	322
85°	82	81	88	104	126	93
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3735.9	3735.9	3735.9	3735.9	3735.9
2.5°	3772.1	3761.1	3716.1	3758.9	3720.5
5°	3766.6	3763.3	3737.0	3729.3	3734.8
7.5°	3694.2	3701.9	3697.5	3779.8	3738.1
10°	3576.8	3592.1	3647.0	3762.2	3727.1
12.5°	3484.6	3496.7	3570.2	3741.4	3659.1
15°	3382.6	3422.1	3466.0	3687.6	3658.0
17.5°	3272.9	3310.2	3414.4	3615.2	3611.9
20°	3152.2	3221.3	3334.3	3520.8	3594.3
22.5°	2988.7	3082.0	3241.0	3478.0	3492.3
25°	2872.4	2916.3	3121.5	3388.1	3479.1
27.5°	2695.7	2779.1	2988.7	3258.6	3408.9
30°	2579.4	2648.6	2858.1	3182.9	3290.4
32.5°	2433.5	2515.8	2703.4	3100.6	3230.1
35°	2268.9	2383.1	2564.1	2966.7	3173.0
37.5°	2095.6	2208.6	2422.6	2855.9	3011.7
40°	1927.7	2024.3	2298.6	2723.2	2829.6
42.5°	1755.5	1859.7	2157.0	2461.0	2128.5
45°	1576.6	1698.4	1991.4	1860.8	1712.7
47.5°	1364.9	1514.1	1808.1	1495.4	1622.7
50°	1226.6	1307.8	1582.1	1409.9	1553.6
52.5°	1043.4	1153.1	1270.5	1316.6	1468.0
55°	917.2	968.8	1030.2	1221.2	1078.5
57.5°	800.9	847.0	918.3	861.3	574.9
60°	727.4	748.3	810.8	615.5	544.2
62.5°	644.0	664.9	711.0	574.9	522.3
65°	576.0	590.3	606.7	542.0	491.5
67.5°	503.6	511.3	528.8	500.3	461.9
70°	429.0	440.0	465.2	457.5	425.7
72.5°	363.2	373.0	395.0	406.0	376.3
75°	305.0	312.7	330.2	345.6	328.1
77.5°	242.5	250.2	273.2	289.7	282.0
80°	190.9	192.0	209.6	226.0	235.9
82.5°	133.9	136.0	149.2	166.8	186.5
85°	82.3	81.2	87.8	104.2	126.2
87.5°	31.8	30.7	36.2	43.9	64.7
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	19.22	20.70	19.59	21.02	21.33	18.90	20.38	19.26	20.69	21.01
	3H	20.78	22.11	21.16	22.44	22.80	20.52	21.84	20.90	22.17	22.53
	4H	21.38	22.62	21.78	22.97	23.35	21.27	22.51	21.67	22.86	23.24
	6H	21.84	22.98	22.25	23.35	23.74	21.93	23.08	22.35	23.45	23.84
	8H	21.99	23.08	22.42	23.47	23.87	22.21	23.30	22.64	23.69	24.09
	12H	22.09	23.13	22.52	23.52	23.95	22.43	23.48	22.86	23.86	24.29
4H	2H	19.82	21.06	20.22	21.41	21.78	19.56	20.80	19.96	21.15	21.53
	3H	21.60	22.63	22.02	23.03	23.43	21.45	22.47	21.86	22.87	23.28
	4H	22.33	23.26	22.76	23.67	24.11	22.34	23.27	22.77	23.68	24.12
	6H	22.91	23.72	23.37	24.16	24.62	23.15	23.95	23.61	24.40	24.86
	8H	23.11	23.86	23.58	24.31	24.78	23.48	24.23	23.94	24.67	25.14
	12H	23.25	23.92	23.73	24.40	24.87	23.75	24.42	24.23	24.90	25.37
8H	4H	22.65	23.41	23.12	23.85	24.32	22.66	23.42	23.13	23.86	24.33
	6H	23.36	23.99	23.86	24.48	24.96	23.61	24.24	24.11	24.73	25.21
	8H	23.63	24.19	24.15	24.70	25.19	24.03	24.59	24.54	25.10	25.59
	12H	23.84	24.34	24.35	24.83	25.40	24.40	24.89	24.91	25.39	25.95
12H	4H	22.69	23.36	23.18	23.84	24.32	22.69	23.36	23.17	23.84	24.31
	6H	23.43	24.00	23.95	24.51	24.99	23.66	24.23	24.18	24.74	25.23
	8H	23.76	24.26	24.27	24.75	25.32	24.14	24.64	24.65	25.13	25.70