

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: P894706

Luminaire Tested: 8TMB-16HL-LVR-UNV-L935

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894706
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: 8TMB-16HL-LVR-UNV-L935
Description: 16000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER, 90CRI, 3500K CCT
Light Source: -
Ballast/Driver: -

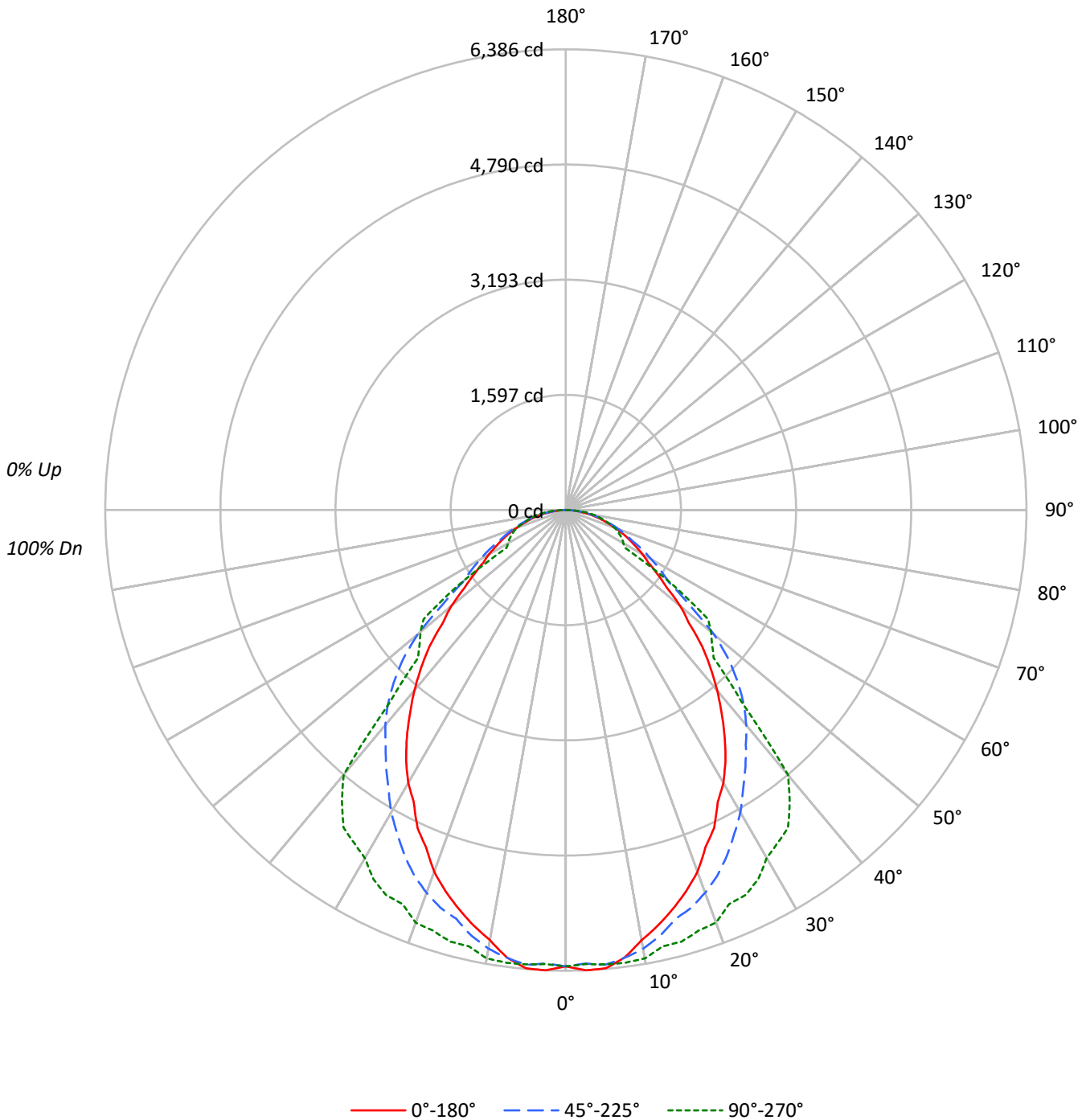
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13240.0 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.32 / 1.26
Luminous Opening: Rectangular (W 0.38' x L: 7.98' x H: 0')
CIE Type: Direct

Input Watts (W): 115.8
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	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	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77	77	77	77	75
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	75	70	67	67	67	67	65
4	86	76	68	62	84	74	67	61	72	66	60	70	64	60	68	63	59	59	59	59	57
5	80	68	60	54	78	67	60	54	65	59	53	63	57	53	62	56	52	52	52	52	50
6	74	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	41	35	59	48	40	35	47	40	35	46	39	35	45	39	35	35	35	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	32	32	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	22443	22443	22443
5°	22714	22535	22522
10°	21818	22247	22735
15°	21037	21556	22750
20°	20151	21316	22978
25°	19039	20690	23061
30°	17893	19826	22825
35°	16639	18804	23270
40°	15117	18025	22190
45°	13395	16918	14550
50°	11464	14786	14520
55°	9607	10790	11296
60°	8740	9742	6539
65°	8187	8625	6987
70°	7535	8171	7478
75°	7079	7665	7614
80°	6604	7250	8161
85°	5671	6050	8696

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 16918 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	601.1	4.5
10°-20°	1681.7	12.7
20°-30°	2451.0	18.5
30°-40°	2803.9	21.2
40°-50°	2398.6	18.1
50°-60°	1581.8	11.9
60°-70°	956.3	7.2
70°-80°	585.0	4.4
80°-90°	180.7	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°	4733.7	35.8
0°-40°	7537.7	56.9
0°-60°	11518.0	87.0
0°-90°	13240.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13240.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6325	6325	6325	6325	6325	
5°	6377	6372	6327	6314	6323	598
15°	5727	5794	5868	6243	6193	1610
25°	4863	4938	5285	5736	5890	2225
35°	3842	4035	4341	5023	5372	2393
45°	2669	2876	3372	3150	2900	2044
55°	1553	1640	1744	2068	1826	1413
65°	975	999	1027	918	832	964
75°	516	529	559	585	555	545
85°	139	138	149	176	214	158
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6325.2	6325.2	6325.2	6325.2	6325.2
2.5°	6386.5	6367.9	6291.7	6364.2	6299.2
5°	6377.2	6371.6	6327.0	6314.0	6323.3
7.5°	6254.6	6267.6	6260.2	6399.5	6328.9
10°	6055.8	6081.8	6174.7	6369.8	6310.3
12.5°	5899.8	5920.2	6044.7	6334.5	6195.1
15°	5727.0	5793.9	5868.2	6243.4	6193.3
17.5°	5541.3	5604.4	5780.9	6120.8	6115.3
20°	5336.9	5454.0	5645.3	5961.1	6085.5
22.5°	5060.1	5218.0	5487.4	5888.6	5912.8
25°	4863.2	4937.5	5284.9	5736.3	5890.5
27.5°	4564.2	4705.3	5060.1	5517.1	5771.6
30°	4367.3	4484.3	4839.1	5388.9	5571.0
32.5°	4120.2	4259.5	4577.2	5249.6	5468.8
35°	3841.5	4034.7	4341.2	5023.0	5372.2
37.5°	3548.0	3739.4	4101.6	4835.4	5099.2
40°	3263.8	3427.3	3891.7	4610.6	4790.8
42.5°	2972.2	3148.7	3652.1	4166.6	3603.8
45°	2669.4	2875.6	3371.6	3150.5	2899.7
47.5°	2310.9	2563.5	3061.3	2531.9	2747.4
50°	2076.8	2214.3	2678.7	2387.0	2630.4
52.5°	1766.6	1952.4	2151.1	2229.1	2485.5
55°	1553.0	1640.3	1744.3	2067.5	1826.0
57.5°	1356.1	1434.1	1554.8	1458.2	973.4
60°	1231.6	1266.9	1372.8	1042.1	921.4
62.5°	1090.4	1125.7	1203.7	973.4	884.2
65°	975.2	999.4	1027.3	917.7	832.2
67.5°	852.6	865.6	895.4	847.1	782.1
70°	726.3	744.9	787.6	774.6	720.8
72.5°	614.9	631.6	668.7	687.3	637.2
75°	516.4	529.4	559.1	585.1	555.4
77.5°	410.5	423.5	462.5	490.4	477.4
80°	323.2	325.1	354.8	382.7	399.4
82.5°	226.6	230.3	252.6	282.4	315.8
85°	139.3	137.5	148.6	176.5	213.6
87.5°	53.9	52.0	61.3	74.3	109.6
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	18.64	20.11	19.00	20.43	20.74	18.31	19.79	18.68	20.10	20.42
	3H	20.19	21.52	20.57	21.85	22.21	19.93	21.25	20.31	21.58	21.94
	4H	20.79	22.04	21.19	22.38	22.76	20.68	21.92	21.08	22.27	22.65
	6H	21.25	22.40	21.66	22.76	23.16	21.35	22.49	21.76	22.86	23.25
	8H	21.40	22.49	21.83	22.88	23.29	21.62	22.71	22.05	23.10	23.51
	12H	21.50	22.55	21.93	22.93	23.36	21.84	22.89	22.28	23.27	23.70
4H	2H	19.23	20.47	19.63	20.82	21.20	18.97	20.21	19.37	20.56	20.94
	3H	21.02	22.04	21.43	22.45	22.85	20.86	21.89	21.27	22.29	22.69
	4H	21.74	22.67	22.18	23.09	23.52	21.75	22.68	22.19	23.09	23.53
	6H	22.33	23.13	22.78	23.57	24.04	22.56	23.36	23.02	23.81	24.27
	8H	22.52	23.28	22.99	23.72	24.19	22.89	23.64	23.35	24.09	24.55
	12H	22.66	23.33	23.15	23.81	24.29	23.16	23.83	23.64	24.31	24.78
8H	4H	22.06	22.82	22.53	23.26	23.73	22.07	22.83	22.54	23.27	23.74
	6H	22.78	23.40	23.27	23.89	24.37	23.02	23.65	23.52	24.14	24.62
	8H	23.04	23.61	23.56	24.12	24.60	23.44	24.00	23.96	24.51	25.00
	12H	23.25	23.75	23.76	24.24	24.81	23.81	24.31	24.32	24.80	25.36
12H	4H	22.10	22.78	22.59	23.26	23.73	22.10	22.77	22.58	23.25	23.72
	6H	22.85	23.41	23.36	23.92	24.41	23.08	23.64	23.59	24.15	24.64
	8H	23.17	23.67	23.68	24.16	24.73	23.55	24.05	24.07	24.55	25.11