

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: P894722

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894722
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-5)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-16HL-LVRF-UNV-L935
Description: 16000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 90CRI, 3500K (C)
Light Source: -
Ballast/Driver: -

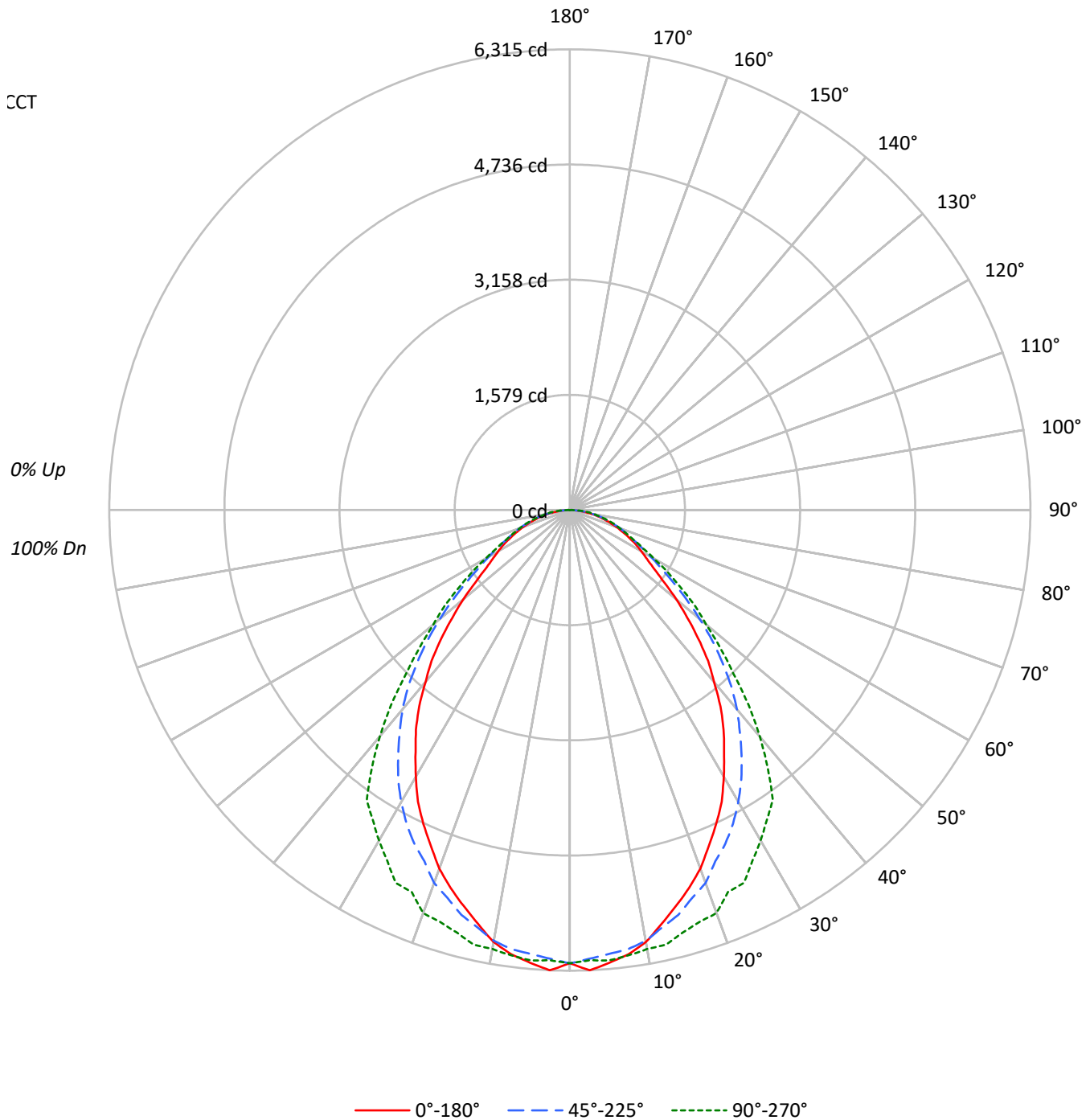
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12597.0 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.25 / 1.21
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
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	87	87	
2	102	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77	75	75	
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	75	70	67	65	65	
4	87	76	68	62	84	74	67	61	72	66	61	70	64	60	68	63	59	57	57	
5	80	68	60	54	78	67	60	54	65	59	53	63	58	53	62	57	52	50	50	
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	57	51	47	45	45	
7	70	57	49	43	68	56	49	43	55	48	43	53	47	42	52	46	42	40	40	
8	65	52	44	39	64	52	44	39	50	44	39	49	43	39	48	43	38	37	37	
9	61	48	41	36	60	48	40	35	47	40	35	46	40	35	45	39	35	33	33	
10	57	45	37	33	56	44	37	32	43	37	32	43	36	32	42	36	32	30	30	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	22044	22044	22044
5°	22188	21758	22069
10°	21668	21601	22016
15°	20645	21102	22016
20°	19749	20541	22196
25°	18593	19756	22083
30°	17296	18933	21436
35°	15929	17772	21022
40°	14246	16517	18771
45°	12488	14856	15918
50°	10539	12836	13471
55°	8743	10743	11489
60°	8040	9134	9476
65°	7532	8030	8093
70°	7014	7610	7553
75°	6543	7104	7359
80°	6109	6604	7060
85°	5142	5594	7788

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 15918 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	586.4	4.7
10°-20°	1635.7	13.0
20°-30°	2355.7	18.7
30°-40°	2600.8	20.6
40°-50°	2231.6	17.7
50°-60°	1520.3	12.1
60°-70°	956.4	7.6
70°-80°	544.5	4.3
80°-90°	165.5	1.3
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°	4577.9	36.3
0°-40°	7178.7	57.0
0°-60°	10930.6	86.8
0°-90°	12597.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12597.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6213	6213	6213	6213	6213	
5°	6230	6205	6109	6237	6196	588
15°	5620	5680	5745	6005	5994	1582
25°	4749	4844	5046	5453	5641	2181
35°	3678	3820	4103	4550	4853	2288
45°	2489	2654	2961	3139	3172	1918
55°	1413	1501	1737	1820	1857	1299
65°	897	912	956	1003	964	891
75°	477	481	518	540	537	509
85°	126	130	137	163	191	145
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6212.8	6212.8	6212.8	6212.8	6212.8
2.5°	6315.0	6249.9	6157.1	6246.2	6177.5
5°	6229.5	6205.4	6108.8	6236.9	6196.1
7.5°	6142.2	6090.2	6073.5	6210.9	6157.1
10°	6014.1	5984.3	5995.5	6171.9	6110.6
12.5°	5811.6	5832.0	5858.0	6082.8	6101.4
15°	5620.3	5679.7	5744.8	6004.8	5993.6
17.5°	5432.7	5514.4	5575.7	5910.1	5919.3
20°	5230.3	5276.7	5440.1	5763.3	5878.5
22.5°	4979.5	5070.5	5211.7	5614.7	5666.7
25°	4749.2	4843.9	5046.4	5453.1	5640.7
27.5°	4507.8	4595.1	4845.8	5261.8	5421.6
30°	4221.7	4338.7	4621.1	5044.5	5232.1
32.5°	3935.7	4106.6	4377.7	4812.4	5029.7
35°	3677.5	3820.5	4102.9	4550.5	4853.2
37.5°	3391.5	3541.9	3828.0	4264.5	4457.6
40°	3075.8	3237.3	3566.1	3919.0	4052.7
42.5°	2804.6	2943.9	3274.5	3523.4	3629.2
45°	2488.8	2654.1	2960.6	3138.9	3172.3
47.5°	2184.2	2373.7	2648.6	2732.1	2797.2
50°	1909.3	2057.9	2325.4	2377.4	2440.5
52.5°	1628.9	1786.8	2020.8	2072.8	2165.7
55°	1413.4	1500.7	1736.6	1820.2	1857.3
57.5°	1255.6	1311.3	1478.4	1584.3	1595.5
60°	1133.0	1160.8	1287.1	1367.0	1335.4
62.5°	1019.7	1042.0	1105.1	1166.4	1125.5
65°	897.1	912.0	956.5	1003.0	964.0
67.5°	781.9	798.7	839.5	872.9	839.5
70°	676.1	689.1	733.6	748.5	728.1
72.5°	577.6	583.2	620.4	646.4	633.4
75°	477.3	481.1	518.2	540.5	536.8
77.5°	386.3	391.9	423.5	443.9	432.8
80°	299.0	302.7	323.2	352.9	345.5
82.5°	209.9	217.3	230.3	256.3	276.7
85°	126.3	130.0	137.4	163.4	191.3
87.5°	48.3	52.0	55.7	68.7	91.0
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	18.20	19.68	18.57	19.99	20.31	19.56	21.04	19.93	21.35	21.67
	3H	19.78	21.10	20.16	21.43	21.80	20.85	22.17	21.23	22.50	22.86
	4H	20.39	21.63	20.79	21.98	22.36	21.40	22.64	21.80	22.99	23.37
	6H	20.86	22.00	21.27	22.37	22.76	21.85	23.00	22.27	23.37	23.76
	8H	21.01	22.10	21.44	22.49	22.89	22.04	23.13	22.47	23.52	23.92
	12H	21.11	22.15	21.54	22.54	22.97	22.20	23.24	22.63	23.62	24.05
4H	2H	18.81	20.06	19.21	20.40	20.78	19.93	21.17	20.33	21.52	21.90
	3H	20.62	21.65	21.03	22.05	22.45	21.48	22.51	21.90	22.91	23.32
	4H	21.34	22.27	21.78	22.68	23.12	22.19	23.11	22.62	23.53	23.97
	6H	21.94	22.74	22.40	23.19	23.65	22.80	23.60	23.26	24.05	24.51
	8H	22.14	22.89	22.61	23.34	23.81	23.04	23.80	23.51	24.24	24.71
	12H	22.28	22.95	22.76	23.43	23.90	23.26	23.93	23.74	24.41	24.88
8H	4H	21.67	22.42	22.13	22.87	23.33	22.42	23.17	22.89	23.62	24.09
	6H	22.39	23.01	22.89	23.51	23.98	23.17	23.79	23.66	24.28	24.76
	8H	22.67	23.23	23.18	23.74	24.23	23.50	24.06	24.01	24.57	25.06
	12H	22.88	23.38	23.39	23.87	24.43	23.80	24.30	24.31	24.79	25.36
12H	4H	21.71	22.38	22.19	22.86	23.33	22.44	23.11	22.92	23.59	24.06
	6H	22.46	23.02	22.98	23.53	24.02	23.20	23.76	23.72	24.27	24.76
	8H	22.80	23.29	23.31	23.78	24.35	23.59	24.09	24.10	24.58	25.15