

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: P894724

Luminaire Tested: 8TMB-16HL-LVRF-UNV-L950

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894724
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-L950
Description: 16000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 90CRI, 5000K (C)
Light Source: -
Ballast/Driver: -

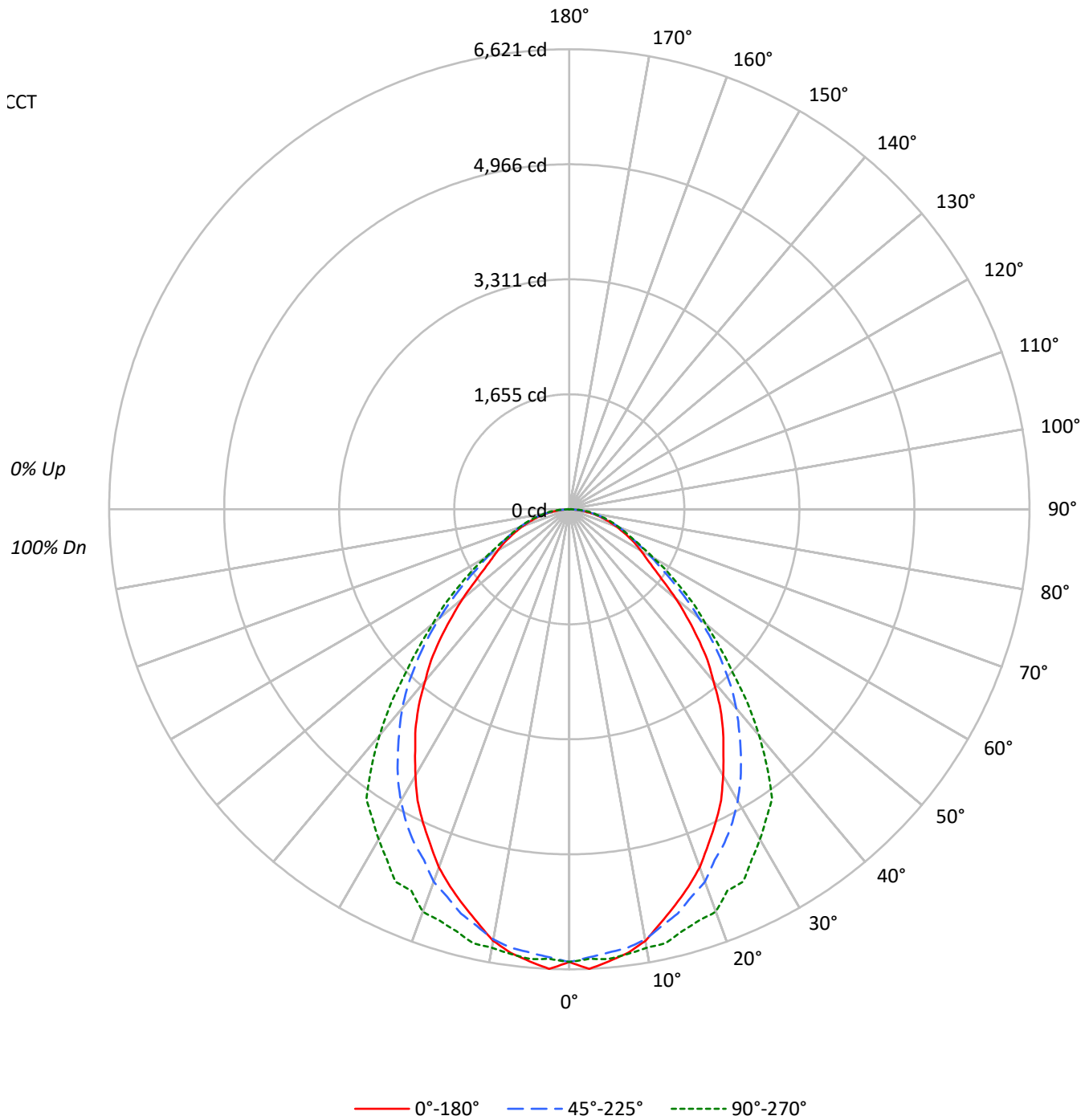
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13208.0 lumens
Efficiency: N/A
Efficacy: 114.1 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

TEST NUMBER: P894724
CATALOG NUMBER: 8TMB-16HL-LVRF-UNV-L950

Luminous Intensity Polar Plot





TEST NUMBER: P894724
 CATALOG NUMBER: 8TMB-16HL-LVRF-UNV-L950

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°	23113	23113	23113
5°	23264	22813	23139
10°	22719	22649	23084
15°	21646	22126	23084
20°	20707	21537	23273
25°	19495	20715	23154
30°	18136	19851	22476
35°	16702	18634	22041
40°	14937	17319	19682
45°	13095	15576	16690
50°	11051	13459	14125
55°	9168	11263	12047
60°	8430	9577	9936
65°	7897	8420	8485
70°	7354	7980	7920
75°	6861	7448	7715
80°	6406	6925	7401
85°	5390	5866	8166

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 16690 cd/sqm



TEST NUMBER: P894724
 CATALOG NUMBER: 8TMB-16HL-LVRF-UNV-L950

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	614.9	4.7
10°-20°	1715.1	13.0
20°-30°	2470.0	18.7
30°-40°	2726.9	20.6
40°-50°	2339.9	17.7
50°-60°	1594.0	12.1
60°-70°	1002.8	7.6
70°-80°	570.9	4.3
80°-90°	173.5	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°	4800.0	36.3
0°-40°	7526.9	57.0
0°-60°	11460.8	86.8
0°-90°	13208.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13208.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6514	6514	6514	6514	6514	
5°	6532	6506	6405	6540	6497	617
15°	5893	5955	6023	6296	6284	1659
25°	4980	5079	5291	5718	5914	2287
35°	3856	4006	4302	4771	5089	2399
45°	2610	2783	3104	3291	3326	2011
55°	1482	1574	1821	1908	1947	1362
65°	941	956	1003	1052	1011	934
75°	500	504	543	567	563	533
85°	132	136	144	171	201	152
90°	0	0	0	0	0	



TEST NUMBER: P894724

CATALOG NUMBER: 8TMB-16HL-LVRF-UNV-L950

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6514.1	6514.1	6514.1	6514.1	6514.1
2.5°	6621.3	6553.1	6455.7	6549.2	6477.1
5°	6531.7	6506.4	6405.1	6539.5	6496.6
7.5°	6440.1	6385.6	6368.1	6512.2	6455.7
10°	6305.8	6274.6	6286.3	6471.3	6407.0
12.5°	6093.5	6114.9	6142.2	6377.8	6397.3
15°	5892.9	5955.2	6023.4	6296.0	6284.3
17.5°	5696.2	5781.9	5846.2	6196.7	6206.5
20°	5484.0	5532.6	5704.0	6042.9	6163.6
22.5°	5221.1	5316.5	5464.5	5887.1	5941.6
25°	4979.6	5078.9	5291.2	5717.6	5914.3
27.5°	4726.4	4817.9	5080.8	5517.1	5684.5
30°	4426.5	4549.2	4845.2	5289.2	5485.9
32.5°	4126.6	4305.8	4590.1	5045.8	5273.6
35°	3855.9	4005.9	4301.9	4771.2	5088.6
37.5°	3556.0	3713.7	4013.6	4471.3	4673.8
40°	3224.9	3394.4	3739.1	4109.1	4249.3
42.5°	2940.6	3086.7	3433.3	3694.3	3805.3
45°	2609.6	2782.9	3104.2	3291.2	3326.2
47.5°	2290.2	2488.8	2777.0	2864.7	2932.8
50°	2002.0	2157.7	2438.2	2492.7	2558.9
52.5°	1707.9	1873.4	2118.8	2173.3	2270.7
55°	1482.0	1573.5	1820.8	1908.5	1947.4
57.5°	1316.5	1374.9	1550.2	1661.2	1672.8
60°	1187.9	1217.1	1349.6	1433.3	1400.2
62.5°	1069.1	1092.5	1158.7	1223.0	1180.1
65°	940.6	956.2	1002.9	1051.6	1010.7
67.5°	819.9	837.4	880.2	915.3	880.2
70°	708.9	722.5	769.2	784.8	763.4
72.5°	605.6	611.5	650.4	677.7	664.1
75°	500.5	504.4	543.3	566.7	562.8
77.5°	405.1	410.9	444.0	465.4	453.8
80°	313.5	317.4	338.9	370.0	362.2
82.5°	220.1	227.8	241.5	268.7	290.2
85°	132.4	136.3	144.1	171.4	200.6
87.5°	50.6	54.5	58.4	72.1	95.4
90°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P894724
 CATALOG NUMBER: 8TMB-16HL-LVRF-UNV-L950

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	18.37	19.84	18.73	20.16	20.47	19.73	21.21	20.09	21.52	21.83
	3H	19.94	21.27	20.32	21.60	21.96	21.01	22.34	21.39	22.66	23.03
	4H	20.55	21.79	20.95	22.14	22.52	21.57	22.81	21.97	23.16	23.54
	6H	21.02	22.17	21.43	22.53	22.93	22.02	23.16	22.43	23.53	23.92
	8H	21.18	22.27	21.60	22.66	23.06	22.20	23.29	22.63	23.68	24.09
	12H	21.28	22.32	21.71	22.70	23.13	22.36	23.40	22.79	23.79	24.22
4H	2H	18.98	20.22	19.38	20.57	20.95	20.09	21.33	20.49	21.68	22.06
	3H	20.78	21.81	21.19	22.21	22.61	21.65	22.68	22.06	23.08	23.48
	4H	21.51	22.43	21.94	22.85	23.29	22.35	23.28	22.79	23.70	24.13
	6H	22.10	22.91	22.56	23.35	23.81	22.96	23.77	23.42	24.21	24.67
	8H	22.31	23.06	22.77	23.50	23.97	23.21	23.96	23.67	24.41	24.87
	12H	22.44	23.12	22.93	23.60	24.07	23.42	24.09	23.91	24.57	25.05
8H	4H	21.83	22.59	22.30	23.03	23.50	22.59	23.34	23.05	23.78	24.25
	6H	22.56	23.18	23.05	23.67	24.15	23.33	23.95	23.83	24.45	24.92
	8H	22.83	23.39	23.35	23.90	24.39	23.66	24.22	24.18	24.73	25.22
	12H	23.05	23.54	23.56	24.03	24.60	23.97	24.46	24.48	24.96	25.52
12H	4H	21.87	22.54	22.35	23.02	23.49	22.60	23.27	23.08	23.75	24.22
	6H	22.62	23.18	23.14	23.70	24.18	23.37	23.93	23.88	24.44	24.93
	8H	22.96	23.46	23.47	23.95	24.51	23.76	24.25	24.27	24.75	25.31