

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: P894690

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894690
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2403-334-4)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-16HL-FLT-UNV-L935
Description: 16000 Lumen 8FT MICROBAY LINEAR BAY with FLAT FROSTED LENS, 90CRI, 3500K CCT
Light Source: -
Ballast/Driver: -

Summary

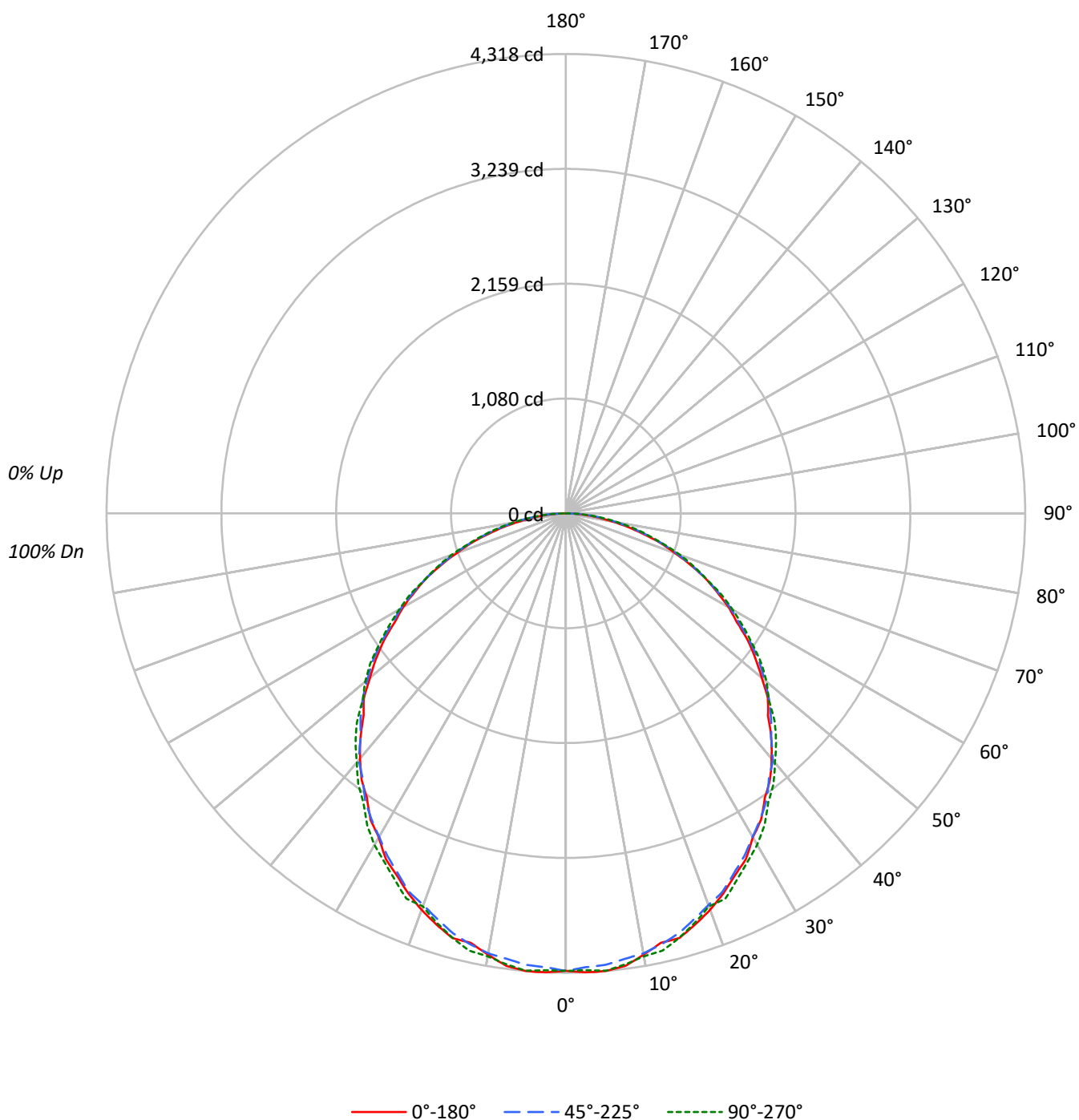
Lumens per Lamp: N/A
Luminaire Lumens: 11914.0 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.24 / 1.34
Luminous Opening: Rectangular (W 0.38' x L: 7.98' x H: 0')
CIE Type: Direct

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: P894690

CATALOG NUMBER: 8TMB-16HL-FLT-UNV-L935

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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	104	99	96	106	102	98	94	97	94	91		93	91	88		90
2	99	90	84	78	96	89	82	77	85	80	75		82	77	73		79
3	90	79	71	65	88	78	70	64	75	68	63		72	67	62		69
4	82	70	62	55	80	69	61	54	67	59	54		64	58	53		62
5	76	63	54	47	74	62	53	47	60	52	46		58	51	46		56
6	70	57	48	41	68	56	47	41	54	46	41		52	45	40		51
7	65	51	43	36	63	51	42	36	49	41	36		48	41	36		46
8	60	47	38	33	59	46	38	32	45	37	32		44	37	32		42
9	57	43	35	29	55	42	35	29	41	34	29		40	34	29		39
10	53	40	32	27	52	39	32	26	38	31	26		37	31	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15256	15256	15256
5°	15381	15176	15368
10°	15171	15130	15231
15°	15174	15017	15160
20°	14973	14791	14847
25°	14703	14623	14885
30°	14405	14382	14740
35°	14127	14248	14369
40°	13937	14023	14160
45°	13486	13691	13943
50°	13267	13461	13595
55°	12937	13098	13236
60°	12535	12719	12838
65°	12163	12210	12210
70°	11311	11581	11869
75°	10415	10822	11051
80°	9185	9981	10323
85°	8244	9225	9905

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 13943 cd/sqm

TEST NUMBER: P894690

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	407.0	3.4
10°-20°	1159.9	9.7
20°-30°	1739.7	14.6
30°-40°	2066.2	17.3
40°-50°	2115.5	17.8
50°-60°	1895.4	15.9
60°-70°	1439.8	12.1
70°-80°	838.6	7.0
80°-90°	251.9	2.1
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°	3306.6	27.8
0°-40°	5372.8	45.1
0°-60°	9383.7	78.8
0°-90°	11914.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11914.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4300	4300	4300	4300	4300	
5°	4318	4302	4261	4287	4315	409
15°	4131	4159	4088	4105	4127	1159
25°	3756	3789	3735	3784	3802	1733
35°	3262	3334	3289	3302	3317	2050
45°	2688	2754	2728	2751	2779	2090
55°	2091	2123	2117	2142	2140	1863
65°	1449	1449	1454	1473	1454	1423
75°	760	773	789	814	806	809
85°	202	206	227	242	243	227
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4299.8	4299.8	4299.8	4299.8	4299.8
2.5°	4318.4	4298.0	4270.1	4279.4	4298.0
5°	4318.4	4301.7	4260.8	4286.8	4314.7
7.5°	4290.5	4312.8	4223.7	4223.7	4275.7
10°	4210.7	4253.4	4199.5	4193.9	4227.4
12.5°	4134.5	4212.5	4149.4	4167.9	4208.8
15°	4130.8	4158.7	4088.1	4104.8	4127.1
17.5°	4050.9	4078.8	4002.6	4034.2	4034.2
20°	3965.5	3971.1	3917.2	3985.9	3932.1
22.5°	3867.0	3924.6	3850.3	3872.6	3919.0
25°	3755.6	3789.0	3735.2	3783.5	3802.0
27.5°	3664.6	3705.5	3631.2	3688.7	3694.3
30°	3516.0	3560.6	3510.4	3547.6	3597.7
32.5°	3415.7	3430.6	3404.6	3460.3	3475.1
35°	3261.5	3334.0	3289.4	3302.4	3317.3
37.5°	3153.8	3176.1	3137.1	3181.7	3205.8
40°	3008.9	3042.4	3027.5	3034.9	3057.2
42.5°	2858.5	2893.8	2854.8	2908.6	2925.4
45°	2687.6	2754.5	2728.5	2750.8	2778.6
47.5°	2576.2	2598.5	2591.0	2604.0	2585.5
50°	2403.4	2425.7	2438.7	2455.4	2462.9
52.5°	2249.3	2266.0	2290.1	2299.4	2316.1
55°	2091.4	2123.0	2117.4	2141.5	2139.7
57.5°	1907.5	1954.0	1939.1	1974.4	1974.4
60°	1766.4	1773.8	1792.4	1809.1	1809.1
62.5°	1602.9	1612.2	1621.5	1636.3	1647.5
65°	1448.7	1448.7	1454.3	1472.9	1454.3
67.5°	1270.4	1263.0	1281.6	1303.9	1302.0
70°	1090.3	1099.6	1116.3	1144.1	1144.1
72.5°	936.1	936.1	954.7	969.5	967.7
75°	759.7	772.7	789.4	813.5	806.1
77.5°	601.8	611.1	638.9	661.2	663.1
80°	449.5	458.8	488.5	510.8	505.2
82.5°	313.9	326.9	354.8	371.5	369.6
85°	202.5	206.2	226.6	241.5	243.3
87.5°	92.9	100.3	115.2	120.7	120.7
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	21.00	22.64	21.36	22.95	23.26	21.10	22.74	21.47	23.05	23.37
	3H	22.78	24.26	23.15	24.59	24.95	22.94	24.42	23.32	24.75	25.11
	4H	23.44	24.84	23.84	25.19	25.56	23.64	25.03	24.03	25.38	25.76
	6H	23.92	25.21	24.33	25.58	25.97	24.19	25.48	24.60	25.85	26.24
	8H	24.06	25.30	24.49	25.69	26.09	24.38	25.61	24.80	26.00	26.40
	12H	24.17	25.36	24.60	25.74	26.17	24.52	25.71	24.95	26.09	26.52
4H	2H	21.64	23.04	22.04	23.39	23.76	21.72	23.12	22.12	23.47	23.84
	3H	23.64	24.82	24.05	25.21	25.61	23.79	24.96	24.20	25.36	25.76
	4H	24.44	25.50	24.87	25.91	26.35	24.63	25.69	25.06	26.10	26.54
	6H	25.04	25.97	25.49	26.41	26.86	25.31	26.24	25.77	26.68	27.14
	8H	25.23	26.10	25.69	26.54	27.01	25.56	26.43	26.02	26.87	27.34
	12H	25.38	26.17	25.86	26.64	27.11	25.76	26.54	26.24	27.02	27.48
8H	4H	24.77	25.64	25.23	26.08	26.55	24.94	25.81	25.40	26.25	26.72
	6H	25.50	26.22	25.99	26.71	27.18	25.76	26.49	26.26	26.97	27.45
	8H	25.77	26.42	26.28	26.92	27.41	26.09	26.75	26.60	27.25	27.74
	12H	25.99	26.57	26.50	27.06	27.62	26.38	26.96	26.89	27.45	28.01
12H	4H	24.81	25.60	25.29	26.07	26.54	24.97	25.76	25.45	26.23	26.70
	6H	25.57	26.22	26.08	26.73	27.21	25.82	26.47	26.33	26.98	27.46
	8H	25.90	26.48	26.41	26.97	27.53	26.22	26.79	26.72	27.28	27.84