

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: P894734

Luminaire Tested: 8TMB-16HL-RND-UNV-L835

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894734
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2403-334-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-16HL-RND-UNV-L835
Description: 16000 Lumen 8FT MICROBAY LINEAR BAY with ROUND FROSTED LENS, 80CRI, 3500K CCT
Light Source: -
Ballast/Driver: -

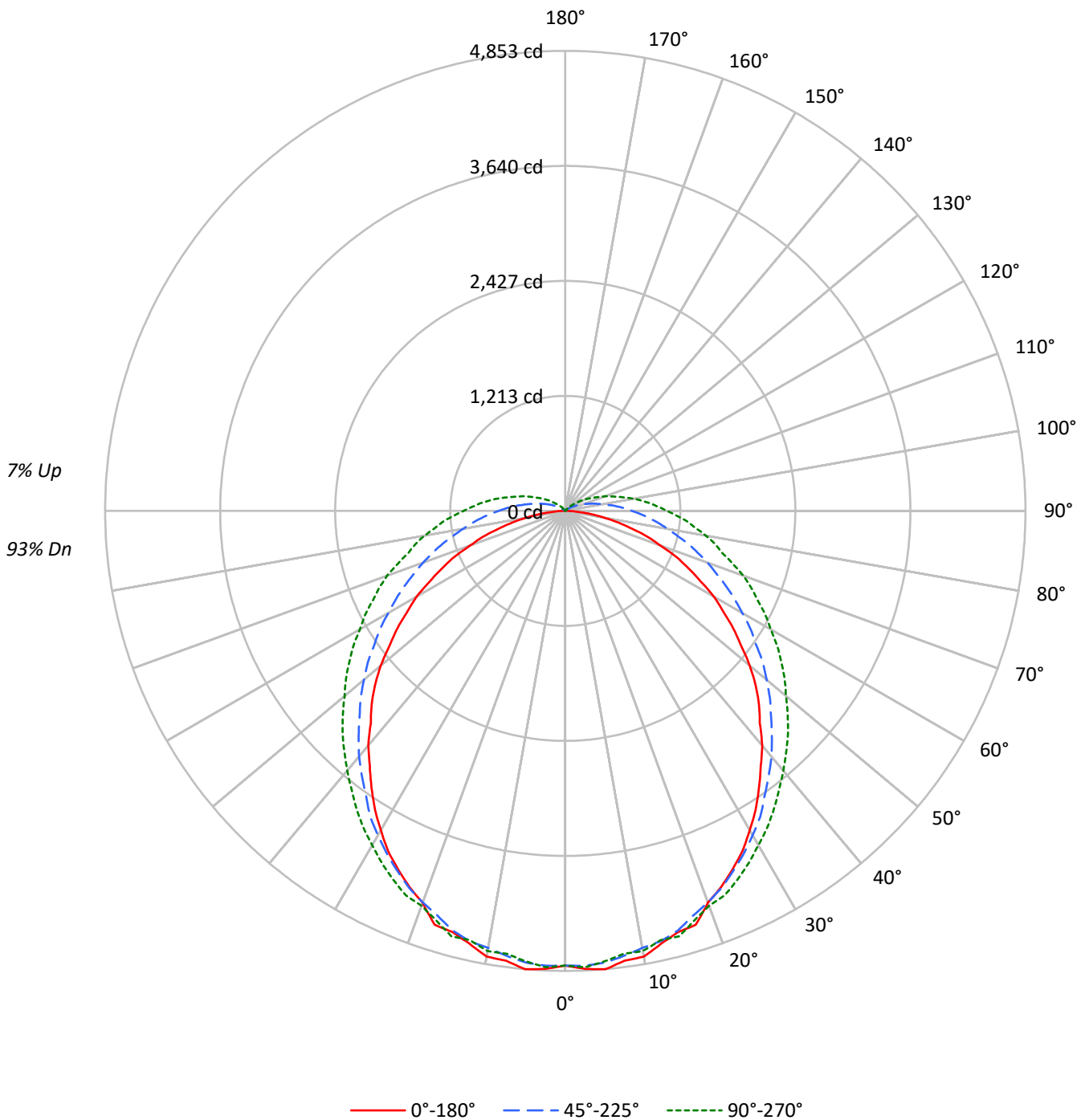
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15798.0 lumens
Efficiency: N/A
Efficacy: 136.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.35
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 (A_{in}): 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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CATALOG NUMBER: 8TMB-16HL-RND-UNV-L835

Luminous Intensity Polar Plot





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	454.7	2.9
10°-20°	1294.5	8.2
20°-30°	1939.8	12.3
30°-40°	2305.2	14.6
40°-50°	2386.5	15.1
50°-60°	2211.6	14.0
60°-70°	1841.3	11.7
70°-80°	1366.6	8.7
80°-90°	903.9	5.7
90°-100°	550.0	3.5
100°-110°	308.3	2.0
110°-120°	151.8	1.0
120°-130°	61.8	0.4
130°-140°	17.9	0.1
140°-150°	2.6	0.0
150°-160°	0.7	0.0
160°-170°	0.5	0.0
170°-180°	0.2	0.0
0°-30°	3689.0	23.4
0°-40°	5994.2	37.9
0°-60°	10592.4	67.0
0°-90°	14704.1	93.1
90°-120°	1010.2	6.4
90°-150°	1092.5	6.9
90°-180°	1094.0	6.9
0°-180°	15798.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4796	4796	4796	4796	4796	
5°	4853	4800	4783	4807	4770	459
15°	4599	4581	4583	4590	4645	1302
25°	4173	4169	4191	4272	4294	1921
35°	3563	3589	3666	3782	3837	2229
45°	2890	2931	3067	3258	3322	2226
55°	2163	2256	2455	2701	2782	1935
65°	1430	1564	1869	2144	2242	1421
75°	731	952	1338	1626	1714	782
85°	171	480	891	1207	1294	192
90°	9	312	704	985	1073	13
95°	2	193	546	814	904	2
105°	2	64	296	502	573	2
115°	2	15	138	276	331	2
125°	2	4	50	127	162	2
135°	4	2	13	42	57	3
145°	4	2	0	4	7	3
155°	4	4	0	0	0	2
165°	7	4	0	0	0	2
175°	7	4	0	0	0	1
180°	2	2	2	2	2	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4796.1	4796.1	4796.1	4796.1	4796.1
2.5°	4835.6	4811.5	4802.7	4791.8	4818.1
5°	4853.2	4800.5	4783.0	4807.1	4769.8
7.5°	4785.2	4772.0	4734.7	4747.9	4712.8
10°	4774.2	4701.8	4682.1	4725.9	4715.0
12.5°	4675.5	4614.0	4649.1	4679.9	4638.2
15°	4598.7	4581.1	4583.3	4589.9	4644.8
17.5°	4578.9	4499.9	4478.0	4532.9	4528.5
20°	4399.0	4383.7	4394.6	4467.0	4431.9
22.5°	4293.7	4245.4	4304.7	4374.9	4390.2
25°	4173.0	4168.6	4190.6	4271.8	4293.7
27.5°	4045.8	4017.3	4076.5	4170.8	4188.4
30°	3890.0	3879.0	3951.4	4032.6	4072.1
32.5°	3736.4	3743.0	3826.4	3894.4	3962.4
35°	3563.1	3589.4	3666.2	3782.5	3837.4
37.5°	3387.6	3420.5	3523.6	3657.4	3703.5
40°	3231.8	3238.4	3383.2	3519.2	3576.3
42.5°	3036.5	3102.4	3225.2	3405.1	3449.0
45°	2889.5	2931.2	3067.2	3258.1	3321.8
47.5°	2722.8	2771.1	2926.8	3113.3	3181.3
50°	2540.7	2584.6	2771.1	2983.9	3038.7
52.5°	2338.8	2428.8	2624.1	2843.5	2915.9
55°	2163.3	2255.5	2455.1	2700.8	2782.0
57.5°	1974.6	2066.8	2316.9	2545.1	2650.4
60°	1812.3	1900.0	2154.5	2437.6	2501.2
62.5°	1610.4	1735.5	2011.9	2290.6	2380.5
65°	1430.5	1564.3	1869.3	2143.6	2242.3
67.5°	1266.0	1404.2	1722.3	2016.3	2123.8
70°	1064.1	1246.2	1597.3	1886.9	1998.8
72.5°	914.9	1097.0	1463.4	1750.8	1851.8
75°	730.6	952.2	1338.4	1625.8	1713.5
77.5°	577.0	816.2	1208.9	1531.4	1619.2
80°	421.3	693.3	1097.0	1406.4	1507.3
82.5°	287.4	579.2	993.9	1290.1	1386.6
85°	171.1	480.5	890.8	1206.7	1294.5
87.5°	74.6	392.7	796.4	1086.0	1176.0
90°	8.8	311.6	704.3	985.1	1072.9
92.5°	2.2	250.1	623.1	895.2	980.7
95°	2.2	193.1	546.3	814.0	903.9
97.5°	2.2	149.2	469.5	730.6	816.2
100°	2.2	114.1	405.9	642.8	735.0
102.5°	2.2	85.6	344.5	570.4	649.4
105°	2.2	63.6	296.2	502.4	572.6
107.5°	2.2	46.1	247.9	438.8	509.0
110°	2.2	32.9	208.4	379.6	449.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.2	24.1	168.9	326.9	386.1
115°	2.2	15.4	138.2	276.4	331.3
117.5°	2.2	11.0	109.7	232.6	285.2
120°	2.2	8.8	87.8	193.1	239.1
122.5°	2.2	6.6	68.0	158.0	201.9
125°	2.2	4.4	50.5	127.3	162.4
127.5°	2.2	4.4	37.3	100.9	131.6
130°	2.2	2.2	26.3	76.8	103.1
132.5°	2.2	2.2	17.6	57.0	76.8
135°	4.4	2.2	13.2	41.7	57.0
137.5°	4.4	2.2	8.8	28.5	39.5
140°	4.4	2.2	4.4	17.6	24.1
142.5°	4.4	2.2	2.2	8.8	13.2
145°	4.4	2.2	0.0	4.4	6.6
147.5°	4.4	2.2	0.0	2.2	2.2
150°	4.4	2.2	0.0	0.0	0.0
152.5°	4.4	2.2	0.0	0.0	0.0
155°	4.4	4.4	0.0	0.0	0.0
157.5°	4.4	4.4	0.0	0.0	0.0
160°	4.4	4.4	0.0	0.0	0.0
162.5°	4.4	4.4	0.0	0.0	0.0
165°	6.6	4.4	0.0	0.0	0.0
167.5°	6.6	4.4	0.0	0.0	0.0
170°	6.6	4.4	0.0	0.0	0.0
172.5°	6.6	4.4	0.0	0.0	0.0
175°	6.6	4.4	0.0	0.0	0.0
177.5°	6.6	4.4	0.0	0.0	0.0
180°	2.2	2.2	2.2	2.2	2.2



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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	20.08	21.61	20.54	22.07	22.55	21.65	23.19	22.12	23.64	24.13
	3H	21.84	23.24	22.32	23.71	24.23	24.24	25.64	24.72	26.10	26.63
	4H	22.50	23.83	23.00	24.31	24.85	25.49	26.82	26.00	27.31	27.84
	6H	22.97	24.22	23.49	24.71	25.26	26.88	28.12	27.39	28.61	29.16
	8H	23.12	24.31	23.65	24.83	25.39	27.61	28.79	28.13	29.31	29.87
	12H	23.22	24.36	23.76	24.88	25.47	28.45	29.59	28.98	30.10	30.69
4H	2H	21.03	22.36	21.53	22.84	23.38	22.22	23.55	22.72	24.03	24.57
	3H	23.07	24.21	23.59	24.73	25.29	25.09	26.23	25.60	26.75	27.31
	4H	23.89	24.93	24.42	25.46	26.05	26.57	27.61	27.10	28.14	28.74
	6H	24.54	25.46	25.09	26.02	26.62	28.19	29.11	28.74	29.67	30.28
	8H	24.76	25.63	25.32	26.19	26.81	29.04	29.91	29.60	30.47	31.09
	12H	24.93	25.72	25.51	26.31	26.93	30.04	30.82	30.62	31.41	32.04
8H	4H	24.73	25.60	25.29	26.16	26.78	26.94	27.81	27.50	28.37	28.99
	6H	25.66	26.39	26.25	27.00	27.62	28.82	29.55	29.41	30.16	30.78
	8H	26.04	26.70	26.64	27.32	27.96	29.88	30.54	30.48	31.16	31.79
	12H	26.36	26.96	26.97	27.56	28.26	31.13	31.73	31.74	32.33	33.03
12H	4H	25.00	25.78	25.58	26.37	27.00	26.98	27.77	27.56	28.36	28.98
	6H	26.08	26.75	26.69	27.36	28.00	28.93	29.59	29.53	30.21	30.84
	8H	26.62	27.22	27.23	27.82	28.52	30.10	30.70	30.71	31.30	32.00