

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: P894633

Luminaire Tested: 8TMB-14HL-RFLW-UNV-L930

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894633
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2408-210-7)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-14HL-RFLW-UNV-L930
Description: 14000 Lumen 8FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 90CRI, 3000K
Light Source: -
Ballast/Driver: -

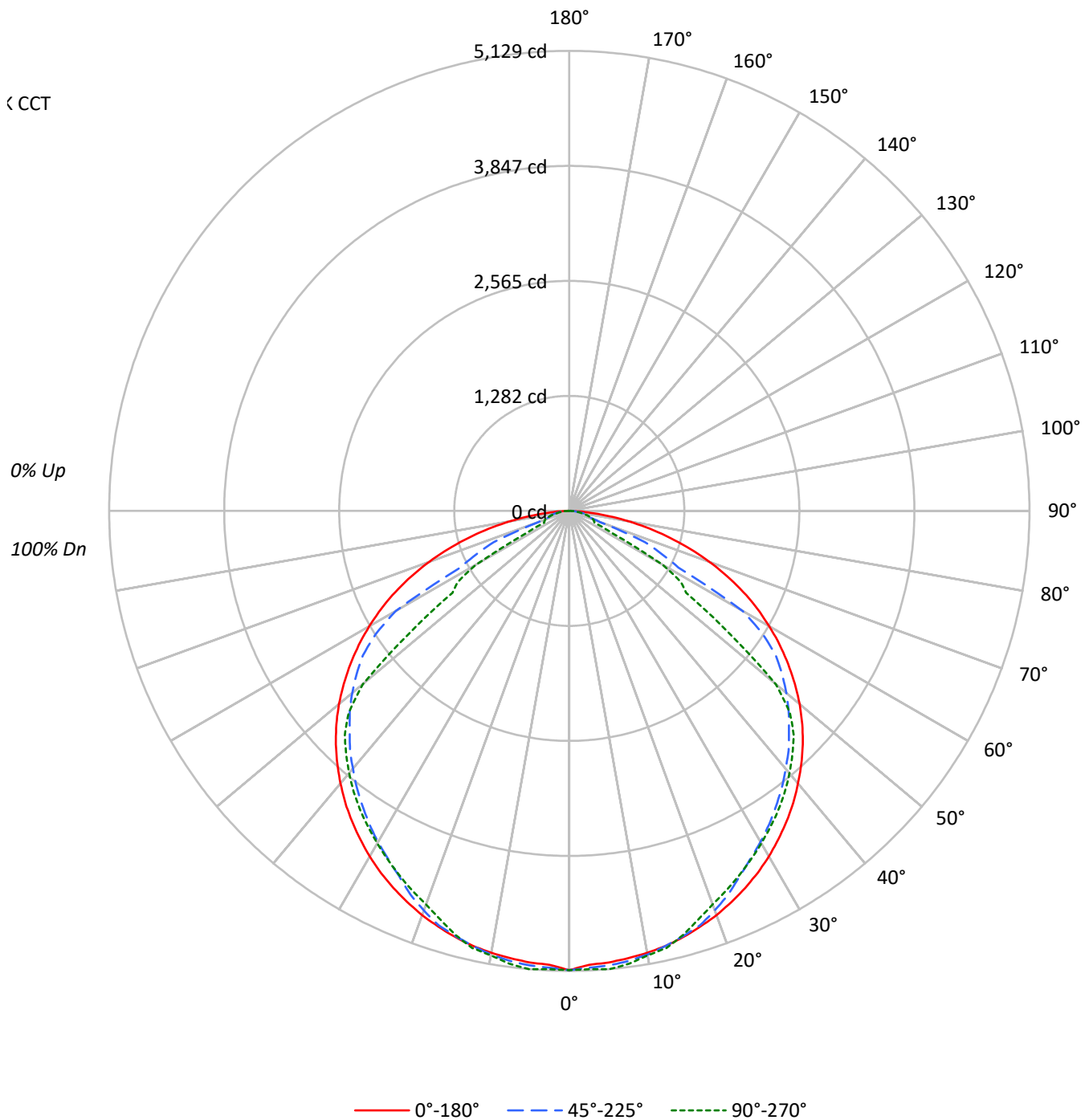
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13347.0 lumens
Efficiency: N/A
Efficacy: 128.8 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.25 / 1.38
Luminous Opening: Rectangular (W 0.21' x L: 7.98' x H: 0')
CIE Type: Direct

Input Watts (W): 103.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 5.03
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	98	107	103	100	97	99	96	94	95	93	91	92	90	88	88	88	88	86
2	101	93	87	82	98	91	85	81	88	83	79	85	81	77	82	78	75	75	75	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	65	65	65	62
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	56	56	56	54
5	78	66	57	51	76	65	56	50	62	55	50	61	54	49	59	53	49	49	49	49	47
6	72	59	51	44	70	58	50	44	56	49	44	55	48	43	53	48	43	43	43	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	39	49	43	38	38	38	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	35	45	39	34	34	34	34	32
9	58	45	37	32	57	44	37	31	43	36	31	42	36	31	41	35	31	31	31	31	29
10	54	42	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	28	28	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	33152	33152	33152
5°	32849	33064	33341
10°	32896	33021	33083
15°	32968	32894	32820
20°	33051	32671	32171
25°	33141	32093	32025
30°	33268	31875	32005
35°	33388	31754	32140
40°	33528	31714	32275
45°	33708	31699	32407
50°	33759	31820	30278
55°	33611	31723	17954
60°	33327	28913	15570
65°	32780	17478	4715
70°	31484	6929	5407
75°	29170	5684	5527
80°	25238	6000	5176
85°	17935	5624	4926

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 33759 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	485.0	3.6
10°-20°	1388.8	10.4
20°-30°	2098.7	15.7
30°-40°	2560.7	19.2
40°-50°	2708.7	20.3
50°-60°	2243.5	16.8
60°-70°	1247.2	9.3
70°-80°	505.5	3.8
80°-90°	109.0	0.8
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°	3972.5	29.8
0°-40°	6533.1	48.9
0°-60°	11485.3	86.1
0°-90°	13347.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13347.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5120	5120	5120	5120	5120	
5°	5054	5143	5087	5094	5129	481
15°	4918	4994	4907	4904	4896	1389
25°	4638	4672	4492	4463	4482	2140
35°	4224	4172	4017	4033	4066	2644
45°	3681	3492	3462	3504	3539	2837
55°	2977	2775	2810	1928	1590	2660
65°	2139	1961	1141	383	308	2110
75°	1166	650	227	224	221	1231
85°	241	80	76	69	66	303
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5119.7	5119.7	5119.7	5119.7	5119.7
2.5°	5064.5	5152.8	5097.6	5108.7	5113.4
5°	5053.5	5143.4	5086.6	5094.5	5129.2
7.5°	5029.8	5121.3	5061.3	5066.1	5092.9
10°	5003.0	5086.6	5021.9	5014.0	5031.4
12.5°	4966.7	5042.4	4966.7	4969.8	4991.9
15°	4917.8	4993.5	4906.7	4903.6	4895.7
17.5°	4859.4	4930.4	4845.2	4794.7	4777.3
20°	4796.3	4851.5	4741.1	4663.8	4668.5
22.5°	4720.6	4767.9	4629.0	4558.0	4578.6
25°	4638.5	4671.6	4491.8	4463.4	4482.3
27.5°	4548.6	4573.8	4373.5	4367.1	4382.9
30°	4449.2	4458.6	4263.0	4259.9	4280.4
32.5°	4338.7	4323.0	4144.7	4147.8	4174.7
35°	4223.6	4171.5	4016.9	4032.7	4065.8
37.5°	4102.1	4009.0	3890.7	3911.2	3947.5
40°	3966.4	3840.2	3751.8	3783.4	3818.1
42.5°	3827.6	3663.5	3617.7	3647.7	3680.8
45°	3680.8	3491.5	3461.5	3504.1	3538.8
47.5°	3521.5	3322.7	3318.0	3351.1	3335.3
50°	3351.1	3147.6	3158.6	3114.4	3005.6
52.5°	3168.1	2966.1	2988.2	2797.3	2260.9
55°	2977.2	2775.2	2809.9	1928.0	1590.3
57.5°	2781.5	2579.6	2557.5	1475.2	1473.6
60°	2573.3	2380.8	2232.5	1303.2	1202.2
62.5°	2363.4	2174.1	1371.0	981.3	552.2
65°	2139.4	1961.1	1140.7	383.4	307.7
67.5°	1904.3	1745.0	913.5	288.7	299.8
70°	1662.9	1520.9	366.0	279.3	285.6
72.5°	1416.8	1173.8	243.0	258.7	258.7
75°	1165.9	650.0	227.2	224.0	220.9
77.5°	916.7	435.5	198.8	184.6	179.9
80°	676.8	156.2	160.9	143.6	138.8
82.5°	448.1	121.5	115.2	104.1	101.0
85°	241.4	80.5	75.7	69.4	66.3
87.5°	86.8	41.0	41.0	33.1	30.0
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	24.84	26.41	25.21	26.73	27.04	20.83	22.40	21.20	22.72	23.03
	3H	26.85	28.26	27.23	28.58	28.94	20.96	22.37	21.34	22.70	23.06
	4H	27.46	28.78	27.86	29.13	29.51	21.08	22.40	21.48	22.75	23.13
	6H	27.86	29.08	28.27	29.44	29.84	21.19	22.41	21.60	22.77	23.17
	8H	27.98	29.14	28.41	29.53	29.93	21.22	22.38	21.65	22.77	23.17
	12H	28.05	29.16	28.48	29.54	29.97	21.25	22.36	21.68	22.74	23.17
4H	2H	24.97	26.29	25.37	26.64	27.02	21.56	22.88	21.96	23.22	23.60
	3H	27.13	28.22	27.54	28.62	29.02	21.75	22.84	22.16	23.24	23.64
	4H	27.79	28.76	28.22	29.18	29.62	21.91	22.89	22.34	23.30	23.74
	6H	28.23	29.08	28.69	29.52	29.98	22.08	22.92	22.53	23.37	23.83
	8H	28.37	29.17	28.84	29.61	30.08	22.13	22.92	22.59	23.36	23.83
	12H	28.48	29.19	28.96	29.66	30.13	22.17	22.88	22.66	23.36	23.83
8H	4H	27.72	28.51	28.18	28.96	29.43	22.18	22.97	22.64	23.42	23.89
	6H	28.16	28.82	28.66	29.31	29.79	22.39	23.04	22.89	23.54	24.01
	8H	28.31	28.90	28.83	29.41	29.90	22.47	23.06	22.99	23.57	24.06
	12H	28.44	28.97	28.95	29.46	30.02	22.56	23.08	23.07	23.57	24.14
12H	4H	27.70	28.40	28.18	28.88	29.35	22.20	22.90	22.68	23.38	23.85
	6H	28.12	28.71	28.64	29.22	29.71	22.41	23.00	22.92	23.50	23.99
	8H	28.29	28.82	28.80	29.31	29.87	22.53	23.05	23.04	23.54	24.11