

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: P894635

Luminaire Tested: 8TMB-14HL-RFLW-UNV-L940

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894635
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-L940
Description: 14000 Lumen 8FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 90CRI, 4000K
Light Source: -
Ballast/Driver: -

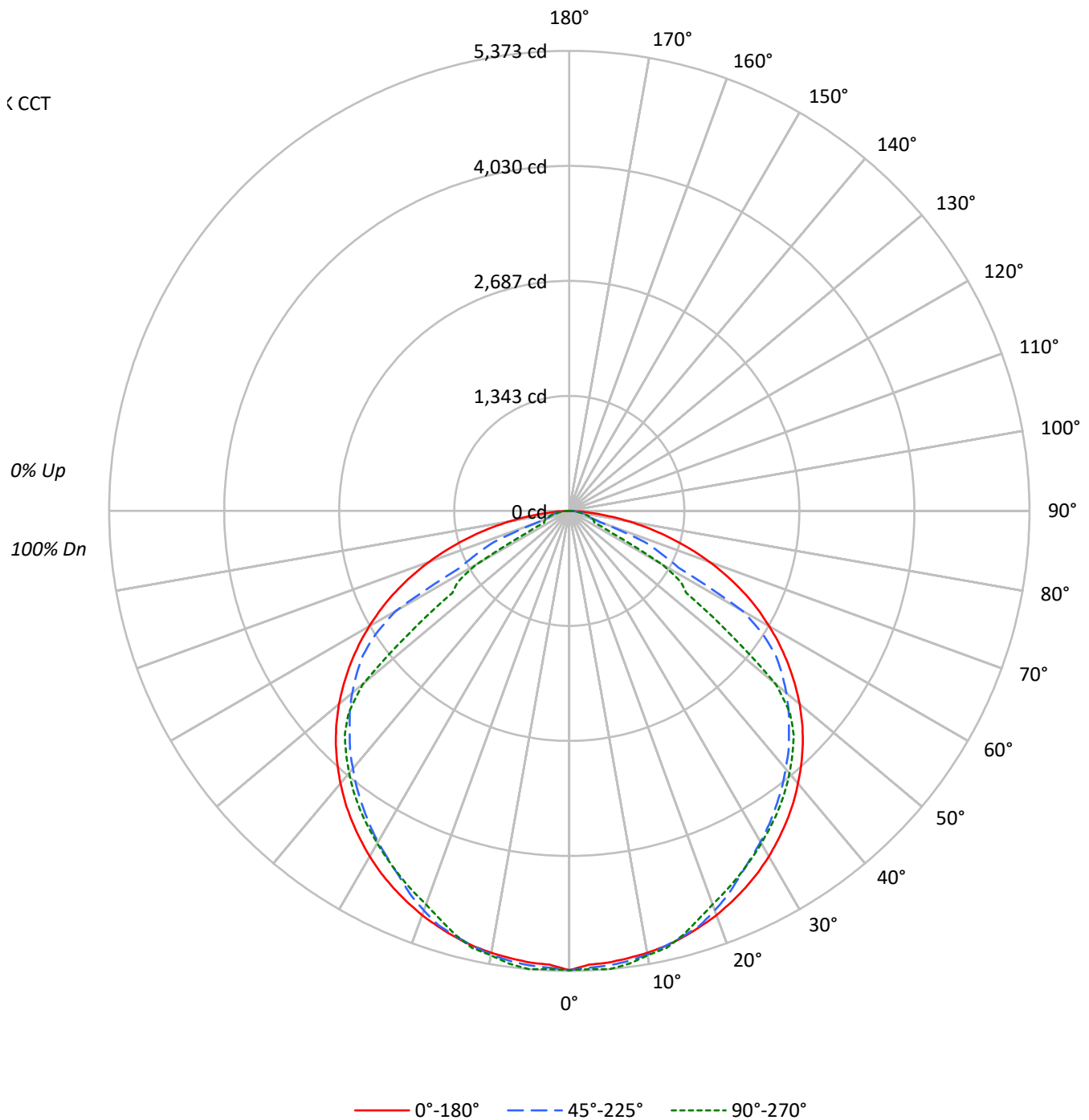
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13982.0 lumens
Efficiency: N/A
Efficacy: 135.0 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°	34730	34730	34730
5°	34411	34637	34927
10°	34461	34592	34657
15°	34536	34459	34382
20°	34624	34225	33701
25°	34718	33620	33549
30°	34851	33392	33528
35°	34976	33265	33669
40°	35123	33223	33810
45°	35312	33208	33949
50°	35365	33334	31719
55°	35210	33232	18808
60°	34912	30288	16310
65°	34340	18310	4938
70°	32981	7259	5665
75°	30558	5955	5789
80°	26439	6287	5422
85°	18790	5892	5156

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 35365 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	508.0	3.6
10°-20°	1454.9	10.4
20°-30°	2198.6	15.7
30°-40°	2682.5	19.2
40°-50°	2837.5	20.3
50°-60°	2350.2	16.8
60°-70°	1306.5	9.3
70°-80°	529.6	3.8
80°-90°	114.2	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°	4161.4	29.8
0°-40°	6843.9	48.9
0°-60°	12031.7	86.1
0°-90°	13982.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13982.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5363	5363	5363	5363	5363	
5°	5294	5388	5329	5337	5373	504
15°	5152	5231	5140	5137	5129	1455
25°	4859	4894	4706	4676	4696	2241
35°	4424	4370	4208	4224	4259	2770
45°	3856	3658	3626	3671	3707	2972
55°	3119	2907	2944	2020	1666	2786
65°	2241	2054	1195	402	322	2210
75°	1221	681	238	235	231	1290
85°	253	84	79	73	69	318
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5363.3	5363.3	5363.3	5363.3	5363.3
2.5°	5305.4	5398.0	5340.2	5351.7	5356.7
5°	5293.9	5388.1	5328.6	5336.8	5373.2
7.5°	5269.1	5364.9	5302.1	5307.1	5335.2
10°	5241.0	5328.6	5260.8	5252.6	5270.7
12.5°	5203.0	5282.3	5203.0	5206.3	5229.4
15°	5151.7	5231.1	5140.2	5136.9	5128.6
17.5°	5090.6	5165.0	5075.7	5022.8	5004.6
20°	5024.5	5082.3	4966.6	4885.6	4890.6
22.5°	4945.1	4994.7	4849.3	4774.9	4796.4
25°	4859.2	4893.9	4705.5	4675.7	4695.6
27.5°	4765.0	4791.4	4581.5	4574.9	4591.4
30°	4660.9	4670.8	4465.8	4462.5	4484.0
32.5°	4545.2	4528.6	4341.9	4345.2	4373.3
35°	4424.5	4370.0	4208.0	4224.5	4259.2
37.5°	4297.2	4199.7	4075.8	4097.3	4135.3
40°	4155.1	4022.9	3930.3	3963.4	3999.7
42.5°	4009.7	3837.8	3789.8	3821.2	3856.0
45°	3856.0	3657.6	3626.2	3670.8	3707.2
47.5°	3689.0	3480.8	3475.8	3510.5	3494.0
50°	3510.5	3297.3	3308.9	3262.6	3148.6
52.5°	3318.8	3107.2	3130.4	2930.4	2368.4
55°	3118.8	2907.3	2943.6	2019.7	1666.0
57.5°	2913.9	2702.3	2679.2	1545.4	1543.7
60°	2695.7	2494.1	2338.7	1365.2	1259.4
62.5°	2475.9	2277.5	1436.3	1028.0	578.5
65°	2241.2	2054.4	1195.0	401.6	322.3
67.5°	1994.9	1828.0	957.0	302.5	314.0
70°	1742.0	1593.3	383.4	292.5	299.2
72.5°	1484.2	1229.7	254.5	271.1	271.1
75°	1221.4	680.9	238.0	234.7	231.4
77.5°	960.3	456.2	208.3	193.4	188.4
80°	709.0	163.6	168.6	150.4	145.4
82.5°	469.4	127.3	120.7	109.1	105.8
85°	252.9	84.3	79.3	72.7	69.4
87.5°	90.9	43.0	43.0	34.7	31.4
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	25.00	26.58	25.37	26.89	27.20	20.99	22.57	21.36	22.88	23.19
	3H	27.01	28.42	27.39	28.74	29.11	21.13	22.53	21.50	22.86	23.22
	4H	27.62	28.94	28.02	29.29	29.67	21.24	22.56	21.64	22.91	23.29
	6H	28.02	29.24	28.43	29.61	30.00	21.35	22.57	21.76	22.94	23.33
	8H	28.14	29.30	28.57	29.69	30.09	21.39	22.55	21.81	22.94	23.34
	12H	28.21	29.32	28.64	29.70	30.13	21.41	22.52	21.84	22.90	23.33
4H	2H	25.13	26.45	25.53	26.80	27.18	21.72	23.04	22.12	23.39	23.76
	3H	27.29	28.38	27.70	28.78	29.18	21.92	23.01	22.33	23.40	23.81
	4H	27.95	28.92	28.38	29.34	29.78	22.07	23.05	22.50	23.46	23.90
	6H	28.39	29.24	28.85	29.68	30.14	22.24	23.09	22.69	23.53	23.99
	8H	28.53	29.33	29.00	29.77	30.24	22.29	23.08	22.75	23.53	23.99
	12H	28.64	29.35	29.12	29.82	30.30	22.34	23.04	22.82	23.52	23.99
8H	4H	27.88	28.68	28.35	29.12	29.59	22.34	23.14	22.81	23.58	24.05
	6H	28.33	28.98	28.82	29.47	29.95	22.55	23.21	23.05	23.70	24.17
	8H	28.47	29.06	28.99	29.57	30.06	22.63	23.22	23.15	23.73	24.22
	12H	28.61	29.13	29.11	29.62	30.18	22.72	23.24	23.23	23.73	24.30
12H	4H	27.86	28.57	28.34	29.04	29.51	22.36	23.07	22.84	23.54	24.01
	6H	28.28	28.87	28.80	29.38	29.87	22.57	23.16	23.08	23.67	24.15
	8H	28.46	28.98	28.97	29.47	30.03	22.69	23.21	23.20	23.71	24.27