

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: P894416

Luminaire Tested: 8TMB-10SL-LVRF-UNV-L850

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894416
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-7)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-10SL-LVRF-UNV-L850
Description: 10000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 80CRI, 5000K (C)
Light Source: -
Ballast/Driver: -

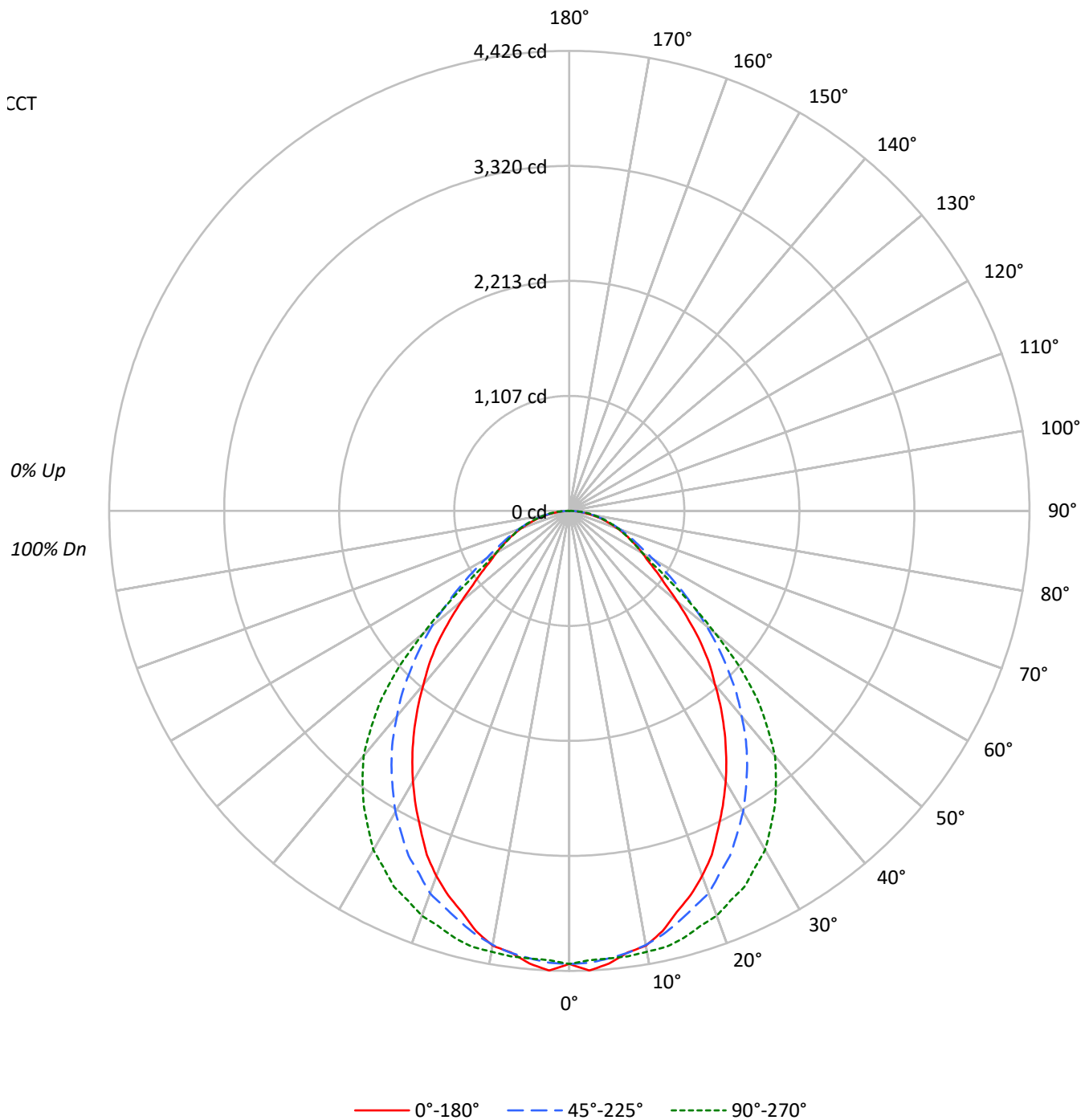
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9058.0 lumens
Efficiency: N/A
Efficacy: 129.4 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.27 / 1.23
Luminous Opening: Rectangular (W 0.38' x L: 7.98' x H: 0')
CIE Type: Direct

Input Watts (W): 70
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 5.63
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
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	89	87	
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	77	75	
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	75	71	67	67	65	
4	87	76	68	62	84	74	67	61	72	66	60	70	64	60	68	63	59	59	57	
5	80	68	60	54	78	67	60	54	65	59	53	63	58	53	62	56	52	52	50	
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	56	51	47	47	45	
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	42	40	
8	65	52	44	39	63	52	44	39	50	44	39	49	43	38	48	42	38	38	36	
9	61	48	41	35	60	48	40	35	47	40	35	46	39	35	45	39	35	35	33	
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	32	30	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15464	15464	15464
5°	15571	15394	15394
10°	15302	15278	15515
15°	14669	15010	15626
20°	14111	14787	15652
25°	13238	14329	15616
30°	12322	13696	15433
35°	11280	12919	14941
40°	10099	11946	14256
45°	8961	10815	12817
50°	7456	9520	10109
55°	6351	8020	7346
60°	5758	6626	5806
65°	5423	5804	5404
70°	5102	5384	5267
75°	4754	5127	5034
80°	4352	4724	4863
85°	3782	4152	5443

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 12817 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	412.6	4.6
10°-20°	1161.1	12.8
20°-30°	1686.2	18.6
30°-40°	1877.6	20.7
40°-50°	1658.8	18.3
50°-60°	1088.5	12.0
60°-70°	666.5	7.4
70°-80°	387.9	4.3
80°-90°	118.8	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°	3259.9	36.0
0°-40°	5137.5	56.7
0°-60°	7884.8	87.0
0°-90°	9058.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9058.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4358	4358	4358	4358	4358	
5°	4372	4374	4322	4365	4322	412
15°	3993	4039	4086	4247	4254	1127
25°	3382	3463	3660	3894	3989	1556
35°	2604	2745	2983	3298	3450	1624
45°	1786	1895	2155	2445	2554	1366
55°	1027	1099	1296	1285	1188	931
65°	646	657	691	671	644	642
75°	347	351	374	381	367	368
85°	93	98	102	116	134	105
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4358.3	4358.3	4358.3	4358.3	4358.3
2.5°	4426.3	4371.9	4351.5	4371.9	4326.6
5°	4371.9	4374.2	4322.0	4365.1	4322.0
7.5°	4285.8	4315.2	4290.3	4356.0	4322.0
10°	4247.2	4249.5	4240.4	4308.4	4306.2
12.5°	4140.7	4147.5	4172.4	4274.4	4297.1
15°	3993.4	4038.7	4086.3	4247.2	4254.0
17.5°	3877.8	3932.2	3995.7	4167.9	4188.3
20°	3737.3	3760.0	3916.3	4068.2	4145.3
22.5°	3580.9	3624.0	3775.8	3979.8	4056.9
25°	3381.5	3463.1	3660.2	3893.7	3988.9
27.5°	3197.9	3293.1	3497.1	3757.7	3868.8
30°	3007.5	3116.3	3342.9	3599.0	3766.8
32.5°	2810.3	2946.3	3161.6	3456.3	3603.6
35°	2604.1	2744.6	2982.6	3297.6	3449.5
37.5°	2397.9	2533.8	2792.2	3129.9	3265.9
40°	2180.3	2314.0	2579.2	2921.4	3077.8
42.5°	1992.2	2107.8	2379.7	2672.1	2817.1
45°	1785.9	1894.7	2155.4	2445.4	2554.2
47.5°	1559.3	1686.2	1940.0	2178.0	2221.1
50°	1350.8	1482.2	1724.7	1863.0	1831.3
52.5°	1167.2	1278.3	1500.4	1559.3	1484.5
55°	1026.7	1099.2	1296.4	1285.1	1187.6
57.5°	897.5	942.8	1110.5	1047.1	954.2
60°	811.4	831.8	933.8	874.8	818.2
62.5°	729.8	738.8	793.2	761.5	718.5
65°	645.9	657.3	691.3	670.9	643.7
67.5°	568.9	573.4	605.1	600.6	566.6
70°	491.8	498.6	519.0	528.1	507.7
72.5°	417.0	423.8	444.2	453.3	435.1
75°	346.8	351.3	374.0	380.8	367.2
77.5°	278.8	287.8	301.4	312.8	296.9
80°	213.0	217.6	231.2	244.8	238.0
82.5°	149.6	156.4	165.4	183.6	188.1
85°	92.9	97.5	102.0	115.6	133.7
87.5°	36.3	38.5	45.3	49.9	65.7
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	17.04	18.52	17.41	18.84	19.15	17.70	19.18	18.06	19.49	19.81
	3H	18.65	19.97	19.02	20.30	20.66	19.13	20.46	19.51	20.79	21.15
	4H	19.26	20.50	19.66	20.85	21.23	19.74	20.98	20.14	21.33	21.71
	6H	19.73	20.88	20.15	21.25	21.64	20.22	21.37	20.64	21.74	22.13
	8H	19.88	20.98	20.31	21.37	21.77	20.42	21.51	20.85	21.90	22.30
	12H	19.98	21.03	20.42	21.41	21.84	20.59	21.63	21.02	22.01	22.44
4H	2H	17.67	18.91	18.07	19.26	19.64	18.19	19.43	18.59	19.78	20.16
	3H	19.49	20.51	19.90	20.92	21.32	19.89	20.92	20.30	21.32	21.72
	4H	20.23	21.15	20.66	21.57	22.01	20.64	21.57	21.07	21.98	22.42
	6H	20.82	21.63	21.28	22.07	22.53	21.28	22.08	21.73	22.52	22.99
	8H	21.02	21.77	21.48	22.22	22.68	21.53	22.28	22.00	22.73	23.20
	12H	21.16	21.83	21.64	22.31	22.78	21.75	22.43	22.24	22.91	23.38
8H	4H	20.54	21.30	21.01	21.74	22.21	20.91	21.66	21.38	22.11	22.58
	6H	21.27	21.89	21.76	22.38	22.86	21.69	22.31	22.18	22.80	23.28
	8H	21.54	22.10	22.06	22.61	23.10	22.03	22.59	22.55	23.10	23.59
	12H	21.76	22.26	22.27	22.75	23.31	22.35	22.85	22.86	23.34	23.90
12H	4H	20.58	21.25	21.06	21.73	22.20	20.93	21.60	21.41	22.08	22.55
	6H	21.33	21.89	21.85	22.40	22.89	21.73	22.29	22.25	22.80	23.29
	8H	21.66	22.16	22.18	22.65	23.22	22.14	22.63	22.65	23.13	23.69