

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: P895232

Luminaire Tested: 8TMB-8SL-LVR-UNV-L850

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895232
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-8)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-8SL-LVR-UNV-L850
Description: 8000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER, 80CRI, 5000K CCT
Light Source: -
Ballast/Driver: -

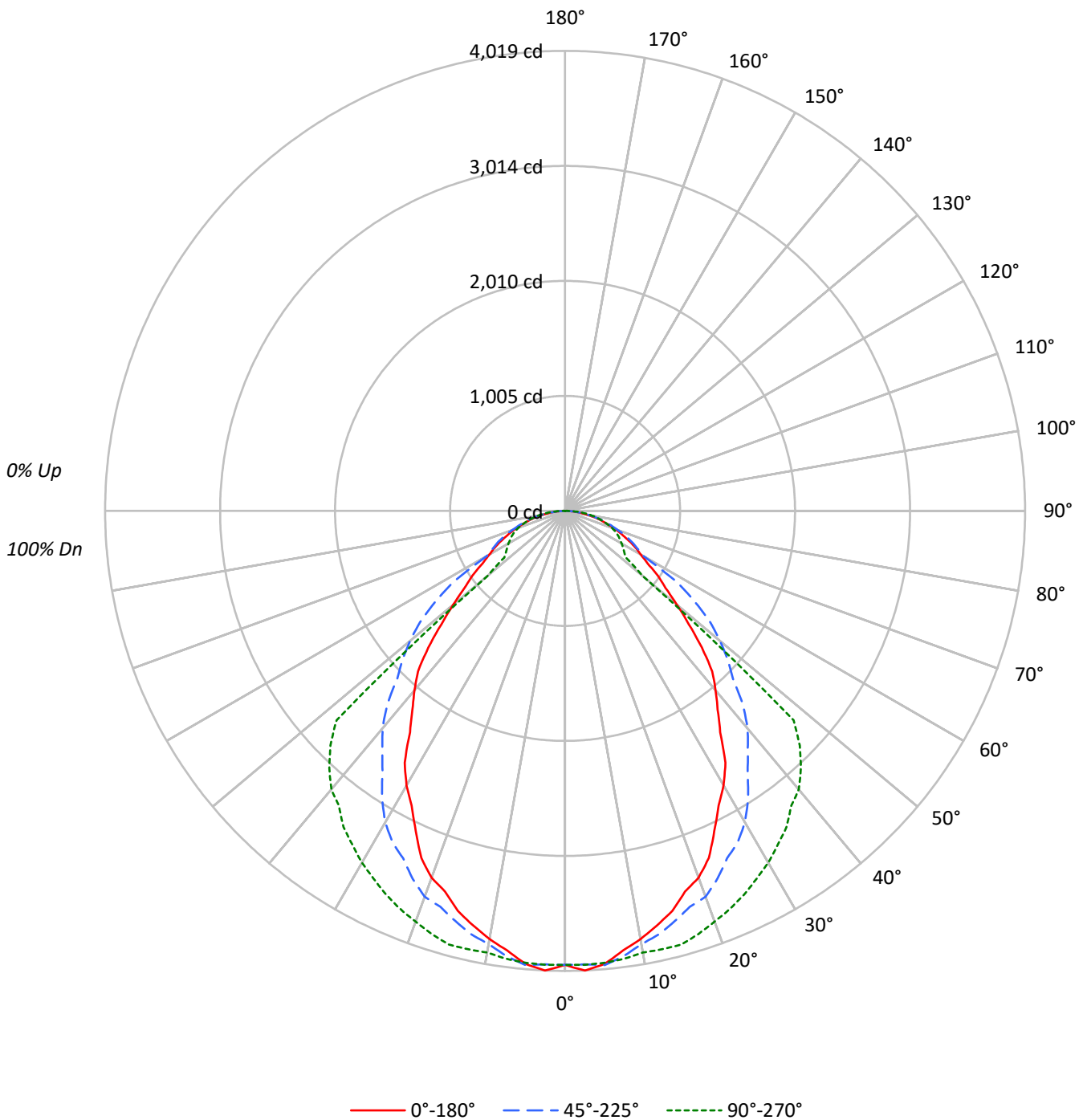
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8465.0 lumens
Efficiency: N/A
Efficacy: 142.0 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.32 / 1.27
Luminous Opening: Rectangular (W 0.38' x L: 7.98' x H: 0')
CIE Type: Direct

Input Watts (W): 59.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 3.8
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	87	87	
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	75	75	
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	65	65	
4	87	76	68	62	84	74	67	61	72	66	61	70	64	60	68	63	59	57	57	
5	80	68	60	54	78	67	60	54	65	59	53	63	58	53	62	57	52	50	50	
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	56	51	47	45	45	
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	40	40	
8	65	52	44	39	63	52	44	39	50	43	39	49	43	38	48	42	38	36	36	
9	61	48	40	35	59	48	40	35	47	40	35	45	39	35	44	39	35	33	33	
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30	30	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14074	14074	14074
5°	14150	14186	14114
10°	13686	13846	14116
15°	13291	13626	14407
20°	12874	13547	14419
25°	12079	13110	14483
30°	11346	12874	14542
35°	10232	12039	14610
40°	9478	11485	14713
45°	8478	10409	14547
50°	7034	9751	4887
55°	6128	8560	3910
60°	5420	5578	4054
65°	5153	5426	4304
70°	4834	5128	4540
75°	4499	4832	4667
80°	4099	4552	4886
85°	3627	3876	5280

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 14547 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	376.2	4.4
10°-20°	1058.4	12.5
20°-30°	1557.0	18.4
30°-40°	1780.6	21.0
40°-50°	1686.0	19.9
50°-60°	928.9	11.0
60°-70°	596.4	7.0
70°-80°	368.1	4.3
80°-90°	113.3	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°	2991.7	35.3
0°-40°	4772.2	56.4
0°-60°	7387.2	87.3
0°-90°	8465.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8465.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3967	3967	3967	3967	3967	
5°	3973	4005	3983	3983	3963	373
15°	3618	3663	3709	3904	3922	1016
25°	3085	3223	3349	3568	3699	1421
35°	2362	2565	2780	3183	3373	1493
45°	1690	1850	2074	2662	2899	1292
55°	991	1039	1384	713	632	886
65°	614	634	646	575	513	608
75°	328	334	352	371	340	349
85°	89	89	95	109	130	99
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3966.7	3966.7	3966.7	3966.7	3966.7
2.5°	4019.4	4029.5	3964.7	3962.7	3968.7
5°	3972.8	4005.2	3982.9	3982.9	3962.7
7.5°	3873.5	3928.2	3922.1	3968.7	3946.5
10°	3798.6	3843.1	3843.1	3964.7	3918.1
12.5°	3709.4	3760.1	3788.4	3916.1	3922.1
15°	3618.3	3662.8	3709.4	3903.9	3922.1
17.5°	3486.6	3567.6	3626.4	3816.8	3875.5
20°	3409.6	3458.2	3587.9	3741.8	3818.8
22.5°	3282.0	3352.9	3478.5	3650.7	3764.1
25°	3085.4	3223.2	3348.8	3567.6	3699.3
27.5°	2903.1	3006.4	3265.8	3496.7	3622.3
30°	2769.4	2850.4	3142.2	3393.4	3549.4
32.5°	2607.3	2739.0	2976.0	3292.1	3458.2
35°	2362.2	2564.8	2779.5	3182.7	3373.1
37.5°	2190.0	2329.8	2621.5	3069.2	3245.5
40°	2046.2	2173.8	2479.7	2927.4	3176.6
42.5°	1902.3	2005.6	2301.4	2822.1	3049.0
45°	1689.6	1849.6	2074.5	2662.0	2899.1
47.5°	1466.8	1636.9	1926.6	2526.3	2708.6
50°	1274.3	1410.0	1766.6	2256.9	885.3
52.5°	1106.1	1231.7	1596.4	816.4	668.5
55°	990.7	1039.3	1383.7	713.1	632.1
57.5°	852.9	931.9	1160.8	678.7	599.7
60°	763.8	798.2	786.0	644.2	571.3
62.5°	692.9	717.2	713.1	609.8	538.9
65°	613.8	634.1	646.3	575.4	512.6
67.5°	534.8	553.1	571.3	532.8	476.1
70°	466.0	478.1	494.3	482.2	437.6
72.5°	395.1	409.2	419.4	429.5	386.9
75°	328.2	334.3	352.5	370.7	340.4
77.5°	267.4	273.5	285.7	305.9	289.7
80°	200.6	206.6	222.8	239.1	239.1
82.5°	141.8	145.9	156.0	178.3	188.4
85°	89.1	89.1	95.2	109.4	129.7
87.5°	34.4	34.4	40.5	48.6	64.8
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	17.14	18.62	17.50	18.93	19.25	14.94	16.42	15.31	16.74	17.05
	3H	18.66	19.99	19.04	20.32	20.68	17.27	18.60	17.65	18.93	19.29
	4H	19.26	20.50	19.66	20.85	21.23	18.22	19.46	18.62	19.81	20.19
	6H	19.71	20.86	20.13	21.23	21.62	19.00	20.15	19.42	20.52	20.91
	8H	19.86	20.95	20.28	21.34	21.74	19.32	20.41	19.74	20.80	21.20
	12H	19.95	21.00	20.38	21.38	21.81	19.56	20.61	20.00	20.99	21.42
4H	2H	17.69	18.93	18.09	19.28	19.66	16.04	17.29	16.45	17.64	18.02
	3H	19.46	20.49	19.87	20.89	21.29	18.49	19.52	18.90	19.92	20.32
	4H	20.18	21.11	20.61	21.52	21.96	19.56	20.48	19.99	20.90	21.34
	6H	20.77	21.57	21.22	22.01	22.47	20.44	21.25	20.90	21.69	22.15
	8H	20.95	21.71	21.42	22.15	22.62	20.80	21.55	21.26	21.99	22.46
	12H	21.09	21.76	21.57	22.24	22.72	21.08	21.76	21.57	22.24	22.71
8H	4H	20.49	21.24	20.95	21.68	22.15	19.94	20.70	20.41	21.14	21.61
	6H	21.20	21.82	21.70	22.31	22.79	20.98	21.60	21.48	22.09	22.57
	8H	21.46	22.02	21.97	22.53	23.02	21.42	21.99	21.94	22.50	22.98
	12H	21.67	22.17	22.18	22.66	23.23	21.81	22.31	22.32	22.80	23.36
12H	4H	20.52	21.20	21.01	21.68	22.15	19.98	20.65	20.46	21.13	21.60
	6H	21.26	21.83	21.78	22.34	22.82	21.04	21.60	21.56	22.12	22.60
	8H	21.58	22.08	22.09	22.57	23.14	21.55	22.05	22.06	22.54	23.11