

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: P894705

Luminaire Tested: 8TMB-16HL-LVR-UNV-L930

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894705
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-6)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-16HL-LVR-UNV-L930
Description: 16000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER, 90CRI, 3000K CCT
Light Source: -
Ballast/Driver: -

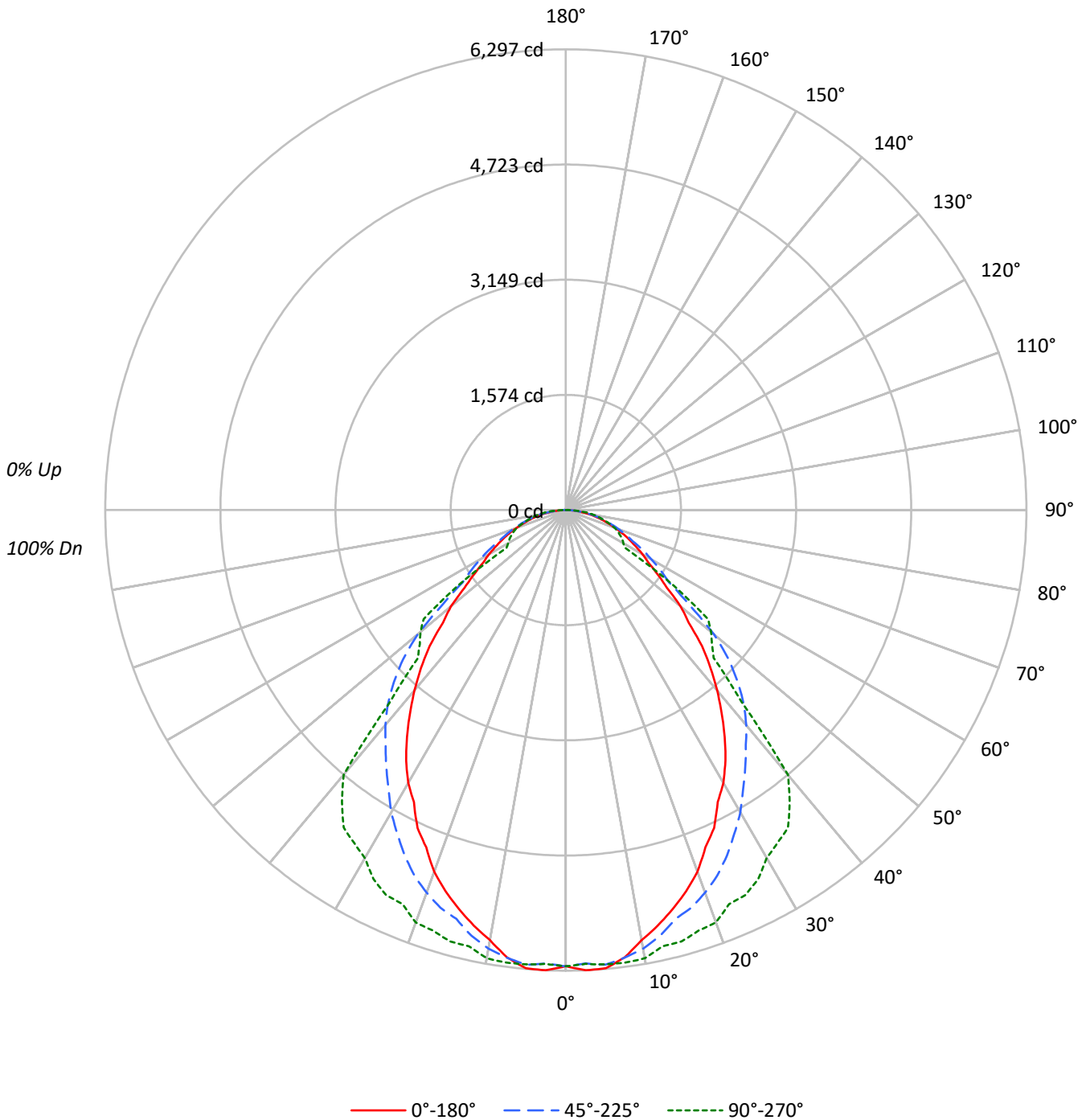
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13054.0 lumens
Efficiency: N/A
Efficacy: 112.7 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.32 / 1.26
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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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	99	108	104	100	97	100	97	94	96	93	91	92	90	89	89	89	89	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77	77	77	77	75
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	75	70	67	67	67	67	65
4	86	76	68	62	84	74	67	61	72	66	60	70	64	60	68	63	59	59	59	59	57
5	80	68	60	54	78	67	60	54	65	59	53	63	57	53	62	56	52	52	52	52	50
6	74	62	54	48	73	61	54	48	60	53	48	58	52	47	56	51	47	47	47	47	45
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	42	42	42	40
8	65	52	44	39	63	52	44	39	50	43	39	49	43	38	48	42	38	38	38	38	36
9	61	48	41	35	59	48	40	35	47	40	35	46	39	35	45	39	35	35	35	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	32	32	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	22127	22127	22127
5°	22394	22218	22205
10°	21512	21934	22416
15°	20742	21253	22430
20°	19868	21016	22655
25°	18772	20400	22737
30°	17641	19547	22504
35°	16406	18540	22943
40°	14905	17772	21878
45°	13206	16680	14346
50°	11303	14578	14315
55°	9471	10639	11137
60°	8617	9605	6446
65°	8072	8503	6889
70°	7429	8056	7372
75°	6981	7558	7507
80°	6512	7147	8046
85°	5594	5964	8574

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 16680 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	592.6	4.5
10°-20°	1658.1	12.7
20°-30°	2416.5	18.5
30°-40°	2764.5	21.2
40°-50°	2364.9	18.1
50°-60°	1559.5	11.9
60°-70°	942.8	7.2
70°-80°	576.8	4.4
80°-90°	178.2	1.4
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°	4667.3	35.8
0°-40°	7431.8	56.9
0°-60°	11356.2	87.0
0°-90°	13054.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13054.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6236	6236	6236	6236	6236	
5°	6288	6282	6238	6225	6234	589
15°	5647	5712	5786	6156	6106	1587
25°	4795	4868	5211	5656	5808	2193
35°	3788	3978	4280	4952	5297	2360
45°	2632	2835	3324	3106	2859	2015
55°	1531	1617	1720	2038	1800	1393
65°	962	985	1013	905	820	950
75°	509	522	551	577	548	537
85°	137	136	146	174	211	156
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6236.3	6236.3	6236.3	6236.3	6236.3
2.5°	6296.8	6278.4	6203.4	6274.8	6210.7
5°	6287.6	6282.1	6238.1	6225.3	6234.5
7.5°	6166.7	6179.5	6172.2	6309.6	6240.0
10°	5970.7	5996.4	6088.0	6280.3	6221.7
12.5°	5816.9	5837.0	5959.8	6245.5	6108.1
15°	5646.6	5712.5	5785.8	6155.7	6106.3
17.5°	5463.4	5525.7	5699.7	6034.9	6029.4
20°	5261.9	5377.3	5566.0	5877.3	6000.1
22.5°	4989.1	5144.7	5410.3	5805.9	5829.7
25°	4794.9	4868.2	5210.7	5655.7	5807.7
27.5°	4500.0	4639.2	4989.1	5439.6	5690.5
30°	4305.9	4421.3	4771.1	5313.2	5492.7
32.5°	4062.3	4199.7	4512.9	5175.9	5392.0
35°	3787.6	3978.1	4280.3	4952.4	5296.7
37.5°	3498.2	3686.8	4044.0	4767.4	5027.5
40°	3218.0	3379.1	3837.0	4545.8	4723.5
42.5°	2930.4	3104.4	3600.8	4108.1	3553.1
45°	2631.9	2835.2	3324.2	3106.3	2859.0
47.5°	2278.4	2527.5	3018.3	2496.4	2708.8
50°	2047.6	2183.2	2641.0	2353.5	2593.4
52.5°	1741.8	1924.9	2120.9	2197.8	2450.6
55°	1531.1	1617.2	1719.8	2038.5	1800.4
57.5°	1337.0	1413.9	1533.0	1437.7	959.7
60°	1214.3	1249.1	1353.5	1027.5	908.4
62.5°	1075.1	1109.9	1186.8	959.7	871.8
65°	961.5	985.4	1012.8	904.8	820.5
67.5°	840.7	853.5	882.8	835.2	771.1
70°	716.1	734.4	776.6	763.7	710.6
72.5°	606.2	622.7	659.3	677.7	628.2
75°	509.2	522.0	551.3	576.9	547.6
77.5°	404.8	417.6	456.0	483.5	470.7
80°	318.7	320.5	349.8	377.3	393.8
82.5°	223.4	227.1	249.1	278.4	311.4
85°	137.4	135.5	146.5	174.0	210.6
87.5°	53.1	51.3	60.4	73.3	108.1
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	18.59	20.06	18.95	20.38	20.69	18.26	19.74	18.63	20.06	20.37
	3H	20.15	21.47	20.52	21.80	22.16	19.88	21.20	20.26	21.53	21.90
	4H	20.75	21.99	21.15	22.34	22.71	20.63	21.87	21.03	22.22	22.60
	6H	21.20	22.35	21.61	22.71	23.11	21.30	22.44	21.71	22.81	23.20
	8H	21.35	22.44	21.78	22.83	23.24	21.57	22.66	22.00	23.05	23.46
	12H	21.45	22.50	21.88	22.88	23.31	21.80	22.84	22.23	23.22	23.65
4H	2H	19.18	20.42	19.58	20.77	21.15	18.92	20.16	19.32	20.51	20.89
	3H	20.97	22.00	21.38	22.40	22.80	20.81	21.84	21.22	22.24	22.64
	4H	21.69	22.62	22.13	23.04	23.48	21.70	22.63	22.14	23.05	23.49
	6H	22.28	23.08	22.74	23.53	23.99	22.51	23.32	22.97	23.76	24.22
	8H	22.47	23.23	22.94	23.67	24.14	22.84	23.59	23.30	24.04	24.51
	12H	22.61	23.29	23.10	23.76	24.24	23.11	23.78	23.60	24.26	24.74
8H	4H	22.02	22.77	22.48	23.21	23.68	22.03	22.78	22.49	23.22	23.69
	6H	22.73	23.35	23.22	23.84	24.32	22.97	23.60	23.47	24.09	24.57
	8H	23.00	23.56	23.51	24.07	24.56	23.39	23.95	23.91	24.46	24.95
	12H	23.20	23.70	23.71	24.19	24.76	23.76	24.26	24.27	24.75	25.31
12H	4H	22.06	22.73	22.54	23.21	23.68	22.05	22.72	22.53	23.20	23.67
	6H	22.80	23.36	23.31	23.87	24.36	23.03	23.59	23.54	24.10	24.59
	8H	23.12	23.62	23.63	24.11	24.68	23.51	24.00	24.02	24.50	25.06