

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: P895444

Luminaire Tested: 8TMB-SC3-LVRA-UNV-CC83-LOW-5000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895444
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-26)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-SC3-LVRA-UNV-CC83-LOW-5000K
Description: Selectable 8FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 80CRI, 5000K CCT, LO lumen setting
Light Source: -
Ballast/Driver: -

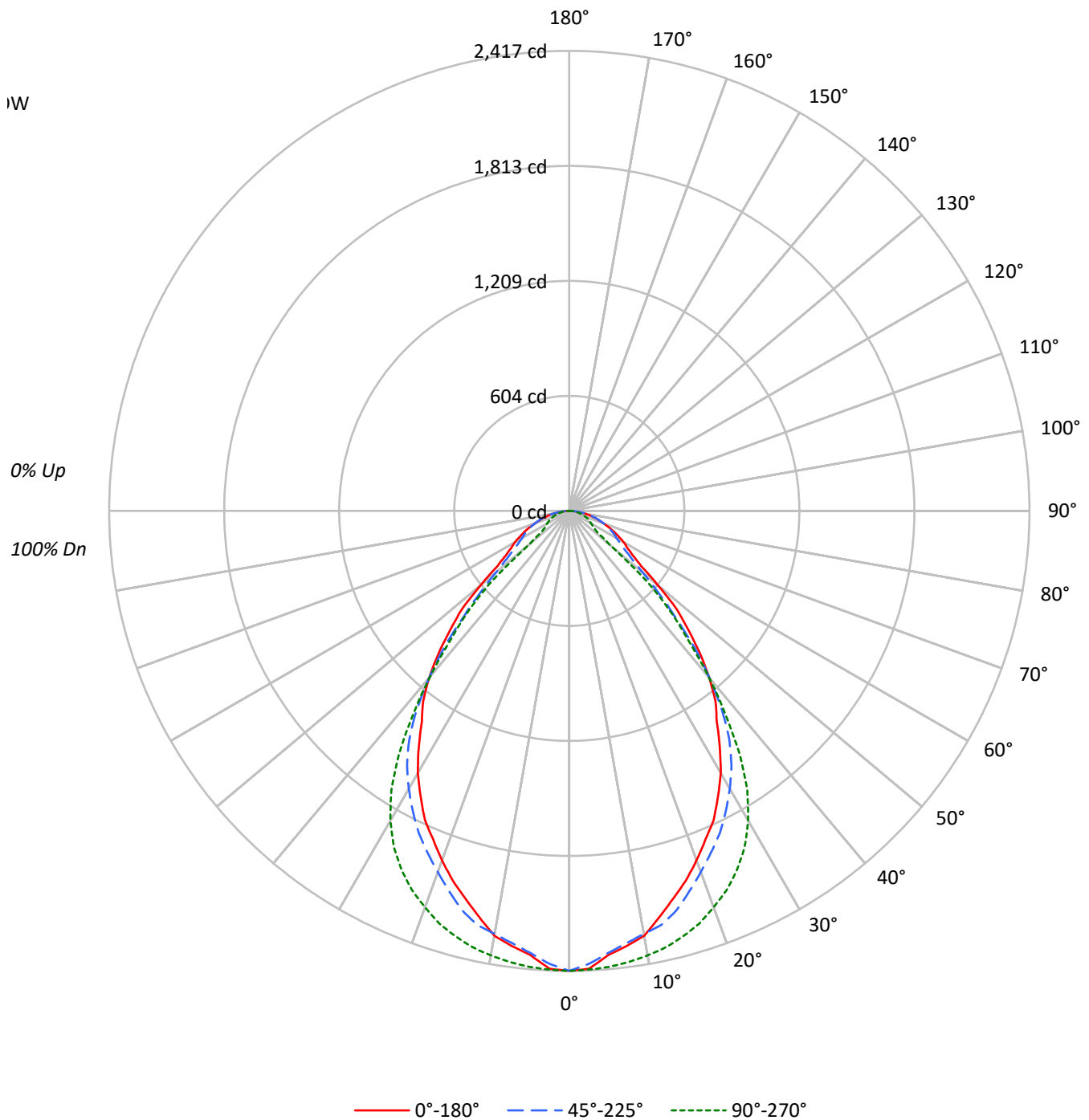
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3922.0 lumens
Efficiency: N/A
Efficacy: 117.1 lumens/watt
Spacing Criteria (0/90/45): 1.02 / 1.16 / 1.12
Luminous Opening: Rectangular (W 0.38' x L: 7.98' x H: 0')
CIE Type: Direct

Input Watts (W): 33.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.9915
Total Harmonic Distortion (THDi): 6.67573310469889
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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	90	90	90	88
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	80	80	80	78
3	96	87	80	75	94	86	80	75	83	78	73	80	76	72	78	74	71	71	71	71	69
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	63	63	63	62
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	57	57	57	55
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	52	52	52	50
7	73	61	54	48	71	60	53	48	59	52	48	58	52	47	56	51	47	47	47	47	45
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	43	43	43	41
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	40	40	40	38
10	61	49	42	37	60	48	42	37	47	41	37	47	41	37	46	40	37	37	37	37	35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8574	8574	8574
5°	8343	8306	8565
10°	8166	8130	8545
15°	7744	7982	8497
20°	7377	7626	8367
25°	7018	7317	8154
30°	6520	6908	7699
35°	5846	6348	6752
40°	5296	5308	5279
45°	4428	3922	3825
50°	3345	2761	1564
55°	2516	2208	986
60°	2338	2033	950
65°	2175	2029	952
70°	1990	1990	937
75°	1886	1938	905
80°	1743	1833	930
85°	1523	1596	1014

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 4532 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.2	5.7
10°-20°	615.1	15.7
20°-30°	872.2	22.2
30°-40°	898.5	22.9
40°-50°	627.6	16.0
50°-60°	301.1	7.7
60°-70°	211.3	5.4
70°-80°	132.1	3.4
80°-90°	40.9	1.0
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°	1710.5	43.6
0°-40°	2609.0	66.5
0°-60°	3537.7	90.2
0°-90°	3922.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3922.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2417	2417	2417	2417	2417	
5°	2342	2339	2332	2393	2405	222
15°	2108	2124	2173	2235	2313	594
25°	1792	1811	1869	1996	2083	820
35°	1350	1386	1466	1496	1559	850
45°	882	903	782	742	762	680
55°	407	387	357	229	159	381
65°	259	242	242	184	113	257
75°	138	136	141	122	66	145
85°	37	37	39	39	25	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2416.6	2416.6	2416.6	2416.6	2416.6
2.5°	2407.2	2399.8	2381.7	2414.7	2412.2
5°	2342.5	2339.3	2331.9	2392.9	2404.7
7.5°	2305.7	2299.5	2290.8	2358.0	2391.0
10°	2266.5	2273.9	2256.5	2318.2	2371.7
12.5°	2185.5	2205.4	2229.1	2277.1	2348.1
15°	2108.3	2123.8	2173.0	2235.3	2313.2
17.5°	2036.0	2054.1	2096.4	2189.9	2272.7
20°	1953.8	1978.7	2019.8	2139.4	2216.0
22.5°	1869.1	1892.1	1943.8	2072.1	2157.5
25°	1792.5	1810.6	1869.1	1995.5	2082.7
27.5°	1691.0	1724.6	1780.0	1902.1	1993.7
30°	1591.3	1620.0	1686.0	1788.8	1879.1
32.5°	1471.1	1512.8	1585.7	1664.2	1739.6
35°	1349.7	1386.4	1465.5	1496.0	1558.9
37.5°	1261.2	1271.2	1316.0	1312.3	1347.8
40°	1143.5	1163.4	1146.0	1099.3	1139.8
42.5°	1016.5	1040.1	969.7	915.6	929.9
45°	882.5	903.1	781.6	741.8	762.3
47.5°	766.7	764.8	630.3	603.5	574.9
50°	606.0	625.9	500.1	450.3	283.4
52.5°	473.3	480.8	412.3	287.7	186.2
55°	406.7	386.8	356.9	228.6	159.4
57.5°	361.2	336.3	316.4	212.4	145.7
60°	329.5	301.4	286.5	201.8	133.9
62.5°	293.4	271.6	265.9	192.5	123.3
65°	259.1	242.3	241.7	183.7	113.4
67.5°	224.8	215.5	218.0	173.1	102.1
70°	191.8	190.0	191.8	159.4	90.3
72.5°	163.8	161.9	166.9	142.0	77.2
75°	137.6	135.8	141.4	122.1	66.0
77.5°	109.6	110.9	114.6	101.5	55.4
80°	85.3	85.3	89.7	79.7	45.5
82.5°	61.0	61.7	64.2	58.5	35.5
85°	37.4	37.4	39.2	38.6	24.9
87.5°	12.5	14.3	16.8	18.1	12.5
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	13.11	14.47	13.48	14.78	15.09	9.44	10.80	9.81	11.11	11.43
	3H	14.85	16.06	15.23	16.39	16.75	11.42	12.63	11.80	12.96	13.32
	4H	15.52	16.65	15.92	17.00	17.38	12.12	13.25	12.53	13.60	13.98
	6H	16.03	17.07	16.44	17.44	17.83	12.65	13.69	13.06	14.06	14.45
	8H	16.20	17.19	16.63	17.58	17.98	12.83	13.82	13.26	14.21	14.61
	12H	16.31	17.25	16.74	17.63	18.06	12.97	13.91	13.40	14.30	14.73
4H	2H	13.64	14.77	14.04	15.12	15.50	11.07	12.19	11.47	12.55	12.93
	3H	15.62	16.55	16.03	16.95	17.36	13.24	14.17	13.66	14.58	14.98
	4H	16.42	17.26	16.86	17.68	18.12	14.12	14.96	14.56	15.38	15.82
	6H	17.07	17.79	17.53	18.23	18.70	14.77	15.49	15.23	15.94	16.40
	8H	17.28	17.96	17.75	18.41	18.88	14.98	15.65	15.44	16.10	16.57
	12H	17.44	18.04	17.92	18.52	18.99	15.13	15.73	15.62	16.22	16.69
8H	4H	16.71	17.38	17.17	17.83	18.30	14.77	15.45	15.24	15.90	16.37
	6H	17.49	18.04	17.99	18.54	19.02	15.63	16.19	16.14	16.69	17.17
	8H	17.79	18.29	18.31	18.80	19.30	15.96	16.46	16.48	16.97	17.47
	12H	18.03	18.47	18.54	18.96	19.53	16.23	16.67	16.74	17.16	17.73
12H	4H	16.72	17.32	17.21	17.80	18.28	14.85	15.45	15.33	15.93	16.40
	6H	17.54	18.04	18.06	18.55	19.05	15.77	16.27	16.29	16.79	17.28
	8H	17.91	18.35	18.42	18.84	19.41	16.19	16.63	16.70	17.12	17.69