

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P830033

Luminaire Tested: **OHBL-24HE-MCL-UNV-L740-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830033
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-200-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-24HE-MCL-UNV-L740-CD
Description: 24000 LUMEN OHBL HE LED LUMINAIRE WITH 70CRI, 4000K LEDS AND MEDIUM CLEAR LENS
Light Source: -
Ballast/Driver: -

Summary

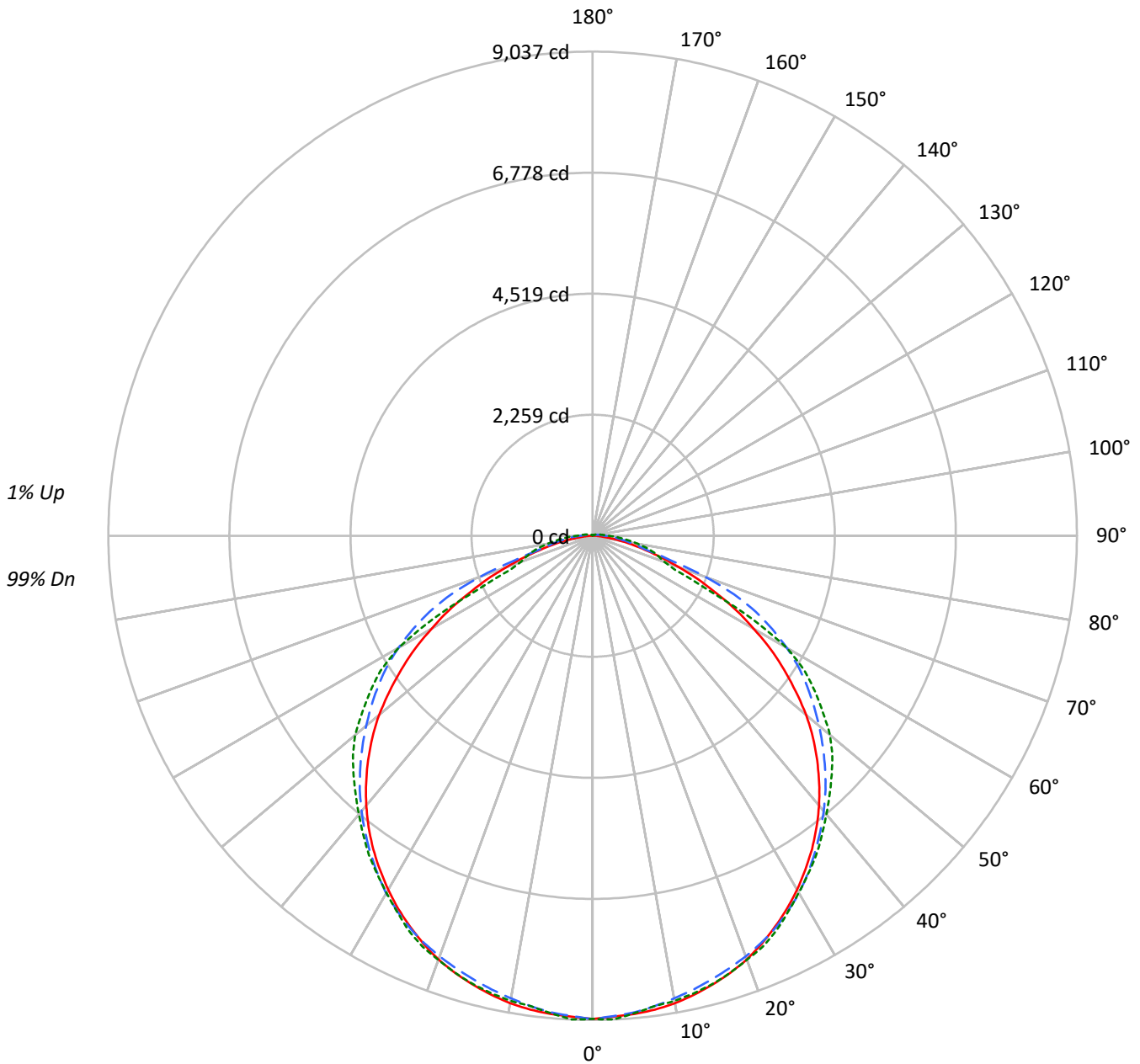
Lumens per Lamp: N/A
Luminaire Lumens: 25490.9 lumens
Efficiency: N/A
Efficacy: 191.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 133
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	110	110	110	106	106	106	101	101	101					99															
1	109	104	100	96	106	102	98	95	97	94	91	93	91	88	90	87	86					83															
2	99	91	84	79	96	89	83	78	85	80	76	82	78	74	79	75	72					70															
3	91	80	72	66	88	79	71	65	75	69	64	72	67	63	70	65	61					59															
4	83	71	62	56	81	70	62	55	67	60	54	65	59	54	62	57	53					51															
5	76	64	55	48	74	62	54	48	60	53	47	58	52	46	56	50	46					44															
6	70	57	48	42	68	56	48	42	54	47	41	52	46	41	51	45	40					38															
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36					34															
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	42	36	32					30															
9	57	43	35	30	55	43	35	29	41	34	29	40	34	29	39	33	29					27															
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	36	30	26					24															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14263	14263	14263
5°	14170	14056	14085
10°	14118	13843	13929
15°	14028	13684	13836
20°	13939	13583	13713
25°	13770	13482	13592
30°	13587	13323	13335
35°	13369	13071	13193
40°	13084	12810	13000
45°	12690	12508	12914
50°	12156	12164	12812
55°	11308	11826	12334
60°	10197	11331	11403
65°	8747	10412	7227
70°	7046	8128	5239
75°	5282	4825	5317
80°	3677	4012	5077
85°	2092	3676	4759



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	850.4	3.3
10°-20°	2438.5	9.6
20°-30°	3724.4	14.6
30°-40°	4518.9	17.7
40°-50°	4736.3	18.6
50°-60°	4291.8	16.8
60°-70°	2877.5	11.3
70°-80°	1292.1	5.1
80°-90°	468.9	1.8
90°-100°	141.1	0.6
100°-110°	66.6	0.3
110°-120°	33.4	0.1
120°-130°	18.4	0.1
130°-140°	12.7	0.0
140°-150°	8.5	0.0
150°-160°	6.3	0.0
160°-170°	4.1	0.0
170°-180°	1.3	0.0
0°-30°	7013.2	27.5
0°-40°	11532.2	45.2
0°-60°	20560.2	80.7
0°-90°	25198.6	98.9
90°-120°	241.1	0.9
90°-150°	280.7	1.1
90°-180°	292.0	1.1
0°-180°	25490.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9019	9019	9019	9019	9019	
5°	8960	8991	8929	8956	8944	852
15°	8669	8635	8574	8650	8660	2448
25°	8054	8018	8075	8149	8126	3712
35°	7138	7155	7228	7305	7276	4462
45°	5924	6021	6133	6289	6309	4564
55°	4359	4569	4881	5077	5065	3891
65°	2558	2959	3359	2835	2315	2549
75°	1007	1460	1074	1099	1171	1100
85°	173	332	426	515	540	212
90°	1	111	220	276	290	10
95°	1	69	151	184	189	2
105°	5	30	74	90	94	6
115°	10	16	38	48	51	10
125°	9	10	24	27	29	9
135°	12	13	14	21	22	9
145°	12	13	13	14	16	8
155°	13	14	14	14	13	6
165°	14	14	14	14	14	4
175°	14	14	13	12	12	1
180°	13	13	13	13	13	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9018.7	9018.7	9018.7	9018.7	9018.7
2.5°	8982.2	9020.0	8973.1	9024.0	9037.0
5°	8960.1	8991.4	8928.8	8956.1	8944.4
7.5°	8919.6	8930.1	8855.7	8877.9	8854.4
10°	8859.6	8854.4	8767.1	8810.1	8815.3
12.5°	8771.0	8755.3	8677.1	8742.3	8743.6
15°	8669.3	8635.3	8574.1	8649.7	8660.1
17.5°	8551.9	8507.6	8467.1	8564.9	8549.3
20°	8415.0	8362.8	8355.0	8461.9	8422.8
22.5°	8245.4	8205.0	8223.3	8325.0	8300.2
25°	8053.7	8018.5	8074.6	8148.9	8125.5
27.5°	7851.6	7830.8	7894.7	7952.0	7906.4
30°	7629.9	7618.2	7703.0	7749.9	7692.5
32.5°	7388.7	7392.6	7473.5	7537.3	7483.9
35°	7138.3	7155.3	7228.3	7305.2	7276.5
37.5°	6863.2	6901.0	6974.0	7061.4	7031.4
40°	6572.4	6627.1	6708.0	6813.6	6786.2
42.5°	6258.1	6327.2	6431.5	6548.9	6546.3
45°	5924.3	6020.8	6132.9	6289.4	6308.9
47.5°	5577.4	5685.6	5827.8	6036.4	6066.4
50°	5200.5	5336.1	5513.5	5763.9	5782.1
52.5°	4780.6	4965.8	5200.5	5440.5	5418.3
55°	4359.4	4569.4	4881.0	5076.6	5064.9
57.5°	3939.5	4175.5	4553.7	4693.2	4691.9
60°	3470.0	3768.7	4182.1	4287.7	4183.4
62.5°	3035.8	3356.6	3785.6	3708.7	3351.4
65°	2558.5	2958.9	3359.2	2835.0	2314.7
67.5°	2134.7	2552.0	2853.2	1941.7	1662.7
70°	1708.3	2168.6	2224.7	1441.0	1421.4
72.5°	1330.1	1820.4	1534.9	1233.6	1296.2
75°	1006.7	1460.5	1074.5	1099.3	1171.0
77.5°	734.2	1121.5	835.9	963.7	1022.4
80°	504.7	794.2	682.0	809.8	850.2
82.5°	316.9	524.2	546.4	652.0	693.7
85°	173.4	332.5	426.4	515.1	539.9
87.5°	71.7	200.8	326.0	397.7	418.6
90°	1.3	110.8	220.4	276.5	289.5
92.5°	1.3	84.8	180.0	223.0	232.1
95°	1.3	69.1	151.3	183.9	189.1
97.5°	2.6	54.8	126.5	152.6	157.8
100°	3.9	45.6	105.6	127.8	131.7
102.5°	5.2	36.5	88.7	106.9	110.8
105°	5.2	30.0	74.3	90.0	93.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	9.1	18.3	44.3	56.1	58.7
115°	10.4	15.6	37.8	48.2	50.9
117.5°	10.4	13.0	32.6	40.4	43.0
120°	10.4	11.7	28.7	35.2	36.5
122.5°	10.4	10.4	24.8	31.3	32.6
125°	9.1	10.4	23.5	27.4	28.7
127.5°	10.4	10.4	20.9	24.8	26.1
130°	10.4	11.7	18.3	23.5	23.5
132.5°	11.7	13.0	17.0	22.2	22.2
135°	11.7	13.0	14.3	20.9	22.2
137.5°	13.0	13.0	13.0	19.6	20.9
140°	13.0	13.0	11.7	17.0	18.3
142.5°	11.7	13.0	11.7	15.6	17.0
145°	11.7	13.0	13.0	14.3	15.6
147.5°	13.0	13.0	13.0	13.0	14.3
150°	13.0	13.0	13.0	13.0	13.0
152.5°	13.0	13.0	13.0	13.0	13.0
155°	13.0	14.3	14.3	14.3	13.0
157.5°	13.0	14.3	14.3	14.3	14.3
160°	13.0	14.3	14.3	14.3	14.3
162.5°	14.3	14.3	14.3	14.3	14.3
165°	14.3	14.3	14.3	14.3	14.3
167.5°	14.3	15.6	14.3	14.3	14.3
170°	14.3	14.3	14.3	13.0	13.0
172.5°	14.3	14.3	14.3	13.0	13.0
175°	14.3	14.3	13.0	11.7	11.7
177.5°	15.6	14.3	13.0	11.7	10.4
180°	13.0	13.0	13.0	13.0	13.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







107.5°	6.5	24.8	63.9	76.9	79.5
110°	7.8	20.9	53.5	65.2	67.8



(END OF REPORT)