

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: P830052

Luminaire Tested: **OHBL-24HE-MFL-UNV-L935-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830052
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-24HE-MFL-UNV-L935-CD
Description: 24000 LUMEN OHBL HE LED LUMINAIRE WITH 90CRI, 3500K LEDS AND MEDIUM FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

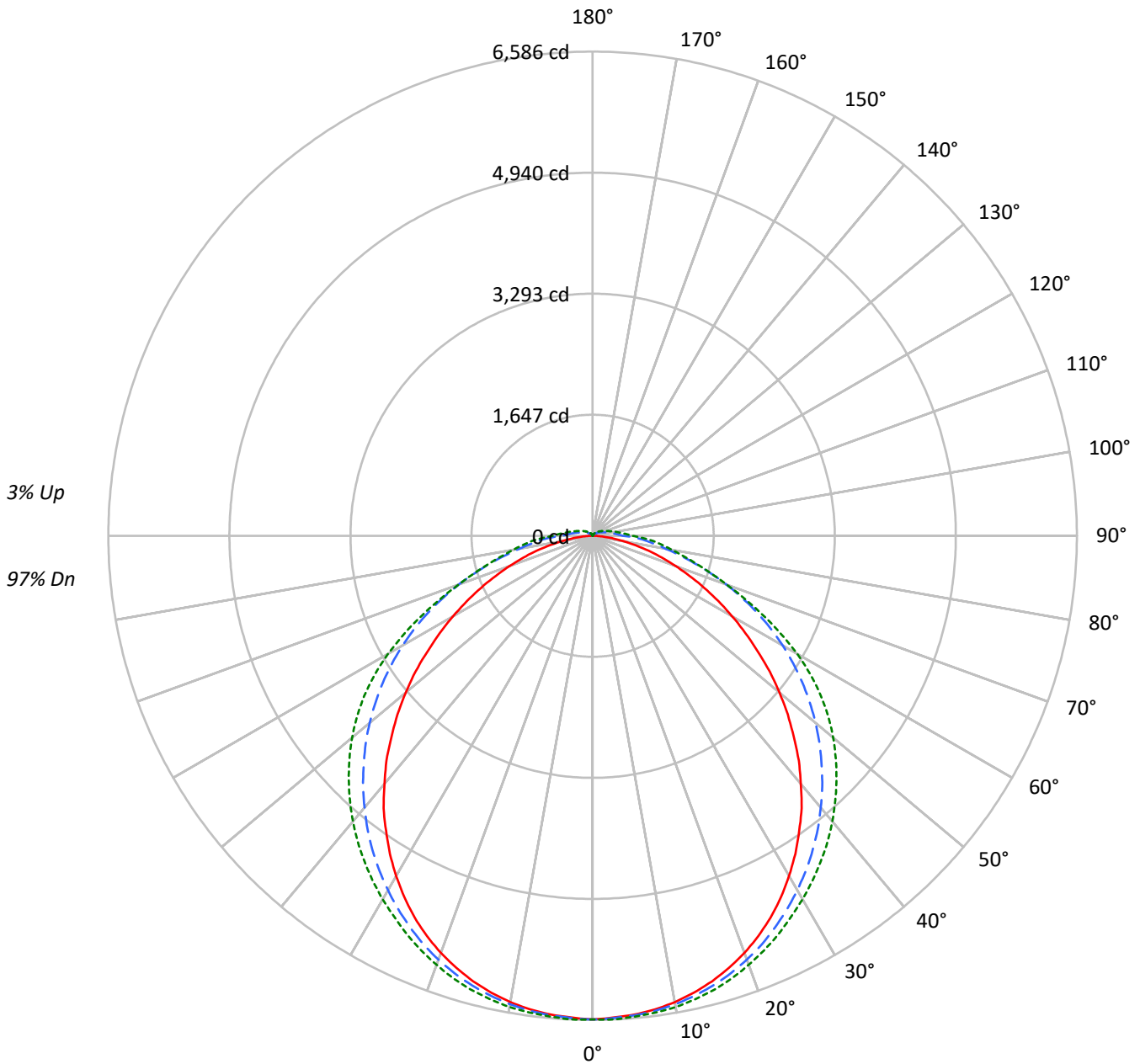
Lumens per Lamp: N/A
Luminaire Lumens: 19692.0 lumens
Efficiency: N/A
Efficacy: 148.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

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				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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	99	97
1	107	102	98	94	104	100	96	92	95	91	88	90	88	85	86	84	82	86	84	82	80
2	98	89	82	76	95	87	80	75	83	77	73	79	74	71	75	72	68	75	72	68	66
3	89	78	70	63	86	76	69	62	73	66	61	70	64	59	67	62	58	67	62	58	56
4	81	69	60	53	79	68	59	53	65	57	52	62	56	51	59	54	50	59	54	50	47
5	75	62	53	46	72	60	52	46	58	50	45	56	49	44	53	48	43	53	48	43	41
6	69	56	47	40	67	54	46	40	52	45	39	50	44	39	48	43	38	48	43	38	36
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	44	38	34	44	38	34	32
8	60	46	37	31	58	45	37	31	43	36	31	42	35	31	41	35	30	41	35	30	28
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	37	32	27	37	32	27	25
10	52	39	31	26	51	38	31	26	37	30	25	36	29	25	35	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10406	10406	10406
5°	10339	10307	10339
10°	10267	10216	10285
15°	10152	10107	10213
20°	10000	9975	10109
25°	9796	9809	10004
30°	9515	9628	9898
35°	9174	9437	9807
40°	8765	9216	9717
45°	8282	8975	9602
50°	7754	8732	9463
55°	7105	8435	9227
60°	6440	8084	8757
65°	5715	7637	7984
70°	4928	7066	7146
75°	4132	6407	6581
80°	3133	5930	6529
85°	1982	6164	7296



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	623.5	3.2
10°-20°	1788.6	9.1
20°-30°	2705.0	13.7
30°-40°	3247.4	16.5
40°-50°	3354.0	17.0
50°-60°	3017.5	15.3
60°-70°	2273.1	11.5
70°-80°	1372.6	7.0
80°-90°	671.3	3.4
90°-100°	282.6	1.4
100°-110°	161.3	0.8
110°-120°	94.7	0.5
120°-130°	53.5	0.3
130°-140°	28.2	0.1
140°-150°	13.7	0.1
150°-160°	5.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	5117.1	26.0
0°-40°	8364.4	42.5
0°-60°	14736.0	74.8
0°-90°	19052.9	96.8
90°-120°	538.5	2.7
90°-150°	634.0	3.2
90°-180°	639.0	3.2
0°-180°	19692.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6580	6580	6580	6580	6580	
5°	6538	6556	6548	6573	6565	621
15°	6274	6304	6333	6386	6393	1769
25°	5730	5792	5874	5966	5981	2635
35°	4899	5013	5219	5377	5409	3062
45°	3866	4061	4401	4641	4691	2985
55°	2739	3023	3482	3744	3789	2456
65°	1672	2013	2464	2586	2557	1661
75°	787	1130	1427	1464	1449	840
85°	164	433	715	813	828	190
90°	0	169	409	515	536	10
95°	8	114	306	390	404	7
105°	11	66	177	232	242	11
115°	13	37	110	146	153	13
125°	13	18	66	95	100	12
135°	11	14	34	58	64	9
145°	16	14	16	29	34	10
155°	16	18	16	14	16	5
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6579.7	6579.7	6579.7	6579.7	6579.7
2.5°	6560.4	6576.5	6566.8	6587.8	6586.2
5°	6537.9	6555.6	6547.5	6573.3	6565.2
7.5°	6499.2	6518.5	6516.9	6545.9	6542.7
10°	6442.8	6463.8	6470.2	6508.9	6508.9
12.5°	6365.6	6392.9	6409.0	6455.7	6457.3
15°	6273.8	6304.4	6333.3	6386.5	6392.9
17.5°	6162.7	6201.3	6241.6	6302.8	6310.8
20°	6037.0	6080.5	6135.3	6199.7	6209.4
22.5°	5892.1	5943.7	6014.5	6090.2	6101.5
25°	5729.5	5792.3	5874.4	5966.2	5980.7
27.5°	5544.3	5616.8	5727.9	5830.9	5843.8
30°	5343.0	5428.4	5566.8	5689.2	5710.2
32.5°	5130.4	5228.7	5399.4	5536.2	5565.2
35°	4898.6	5012.9	5219.0	5376.8	5409.0
37.5°	4669.9	4795.5	5029.0	5209.4	5248.0
40°	4402.6	4558.8	4826.1	5025.8	5072.5
42.5°	4151.4	4320.5	4623.2	4840.6	4885.7
45°	3866.4	4061.2	4401.0	4640.9	4690.8
47.5°	3599.0	3810.0	4186.8	4434.8	4486.3
50°	3317.2	3549.1	3958.1	4217.4	4270.5
52.5°	3035.4	3285.0	3721.4	3990.3	4040.3
55°	2739.1	3022.6	3481.5	3744.0	3789.1
57.5°	2463.8	2763.3	3235.1	3484.7	3512.1
60°	2191.6	2502.4	2983.9	3202.9	3212.6
62.5°	1925.9	2252.8	2726.3	2900.2	2887.3
65°	1671.5	2012.9	2463.8	2586.2	2557.2
67.5°	1426.7	1779.4	2194.9	2273.8	2235.1
70°	1194.8	1552.3	1934.0	1974.2	1938.8
72.5°	990.3	1336.6	1669.9	1703.7	1677.9
75°	787.4	1130.4	1426.7	1463.8	1449.3
77.5°	597.4	930.8	1202.9	1251.2	1254.4
80°	430.0	748.8	1008.1	1083.7	1093.4
82.5°	283.4	581.3	845.4	942.0	956.5
85°	164.3	433.2	715.0	813.2	827.7
87.5°	70.9	312.4	574.9	663.4	681.2
90°	0.0	169.1	409.0	515.3	536.2
92.5°	4.8	140.1	351.0	447.7	465.4
95°	8.1	114.3	306.0	389.7	404.2
97.5°	9.7	96.6	265.7	339.8	354.3
100°	9.7	83.7	230.3	297.9	310.8
102.5°	9.7	74.1	201.3	260.9	272.1
105°	11.3	66.0	177.1	231.9	241.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	12.9	43.5	122.4	164.3	170.7
115°	12.9	37.0	109.5	146.5	153.0
117.5°	14.5	32.2	96.6	132.0	136.9
120°	14.5	27.4	85.3	117.6	124.0
122.5°	14.5	22.5	75.7	106.3	111.1
125°	12.9	17.7	66.0	95.0	99.8
127.5°	11.3	14.5	56.4	85.3	90.2
130°	11.3	12.9	48.3	75.7	80.5
132.5°	11.3	14.5	40.3	66.0	72.5
135°	11.3	14.5	33.8	58.0	64.4
137.5°	11.3	14.5	27.4	49.9	56.4
140°	12.9	14.5	22.5	41.9	48.3
142.5°	14.5	14.5	17.7	35.4	40.3
145°	16.1	14.5	16.1	29.0	33.8
147.5°	16.1	16.1	16.1	22.5	27.4
150°	16.1	17.7	16.1	17.7	22.5
152.5°	16.1	17.7	16.1	14.5	17.7
155°	16.1	17.7	16.1	14.5	16.1
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	11.3	58.0	156.2	206.1	214.2
110°	11.3	51.5	138.5	183.6	191.6



(END OF REPORT)