

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: P830455

Luminaire Tested: **OHBL-48HE-A-UNV-L830-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830455
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-48HE-A-UNV-L830-CD
Description: 48000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 3000K LEDS AND AISLE LENS
Light Source: -
Ballast/Driver: -

Summary

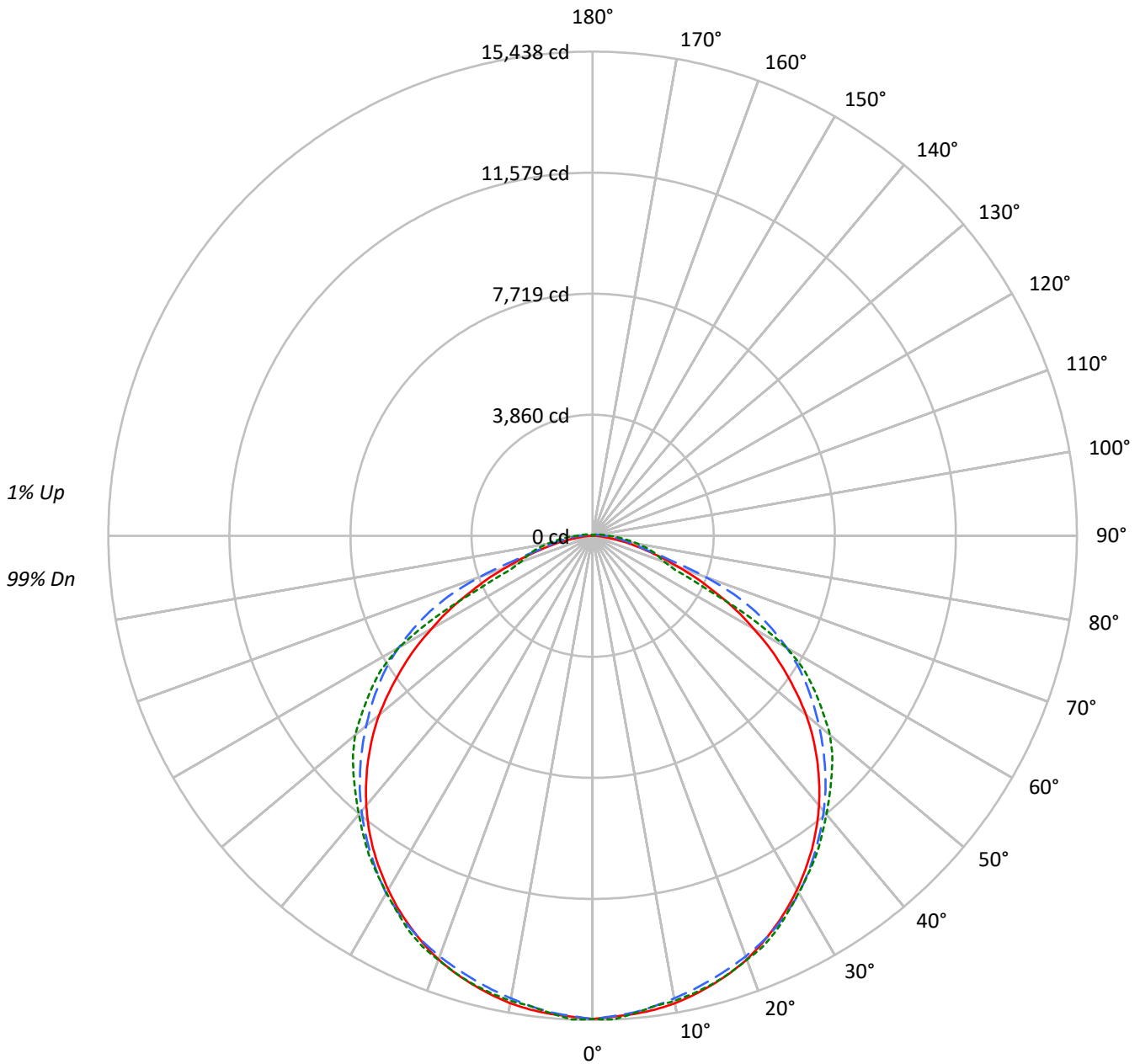
Lumens per Lamp: N/A
Luminaire Lumens: 43546.0 lumens
Efficiency: N/A
Efficacy: 163.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 266
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°	24365	24365	24365
5°	24206	24011	24062
10°	24117	23648	23794
15°	23964	23376	23635
20°	23811	23204	23426
25°	23524	23032	23219
30°	23211	22760	22779
35°	22838	22328	22537
40°	22352	21882	22207
45°	21679	21367	22061
50°	20767	20779	21886
55°	19317	20202	21070
60°	17419	19356	19479
65°	14943	17787	12345
70°	12036	13885	8950
75°	9024	8243	9084
80°	6281	6854	8673
85°	3575	6280	8130



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1452.7	3.3
10°-20°	4165.7	9.6
20°-30°	6362.3	14.6
30°-40°	7719.6	17.7
40°-50°	8090.9	18.6
50°-60°	7331.6	16.8
60°-70°	4915.5	11.3
70°-80°	2207.3	5.1
80°-90°	801.0	1.8
90°-100°	241.1	0.6
100°-110°	113.8	0.3
110°-120°	57.0	0.1
120°-130°	31.4	0.1
130°-140°	21.6	0.0
140°-150°	14.5	0.0
150°-160°	10.8	0.0
160°-170°	6.9	0.0
170°-180°	2.2	0.0
0°-30°	11980.6	27.5
0°-40°	19700.3	45.2
0°-60°	35122.7	80.7
0°-90°	43046.6	98.9
90°-120°	411.9	0.9
90°-150°	479.5	1.1
90°-180°	499.0	1.1
0°-180°	43546.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15407	15407	15407	15407	15407	
5°	15306	15360	15253	15300	15280	###
15°	14810	14752	14647	14776	14794	4181
25°	13758	13698	13794	13921	13881	6342
35°	12194	12223	12348	12479	12430	7622
45°	10120	10285	10477	10744	10778	7796
55°	7447	7806	8338	8672	8652	6647
65°	4371	5055	5738	4843	3954	4355
75°	1720	2495	1836	1878	2000	1879
85°	296	568	728	880	922	362
90°	2	189	376	472	494	18
95°	2	118	258	314	323	3
105°	9	51	127	154	160	10
115°	18	27	65	82	87	17
125°	16	18	40	47	49	15
135°	20	22	24	36	38	16
145°	20	22	22	24	27	13
155°	22	24	24	24	22	10
165°	24	24	24	24	24	7
175°	24	24	22	20	20	2
180°	22	22	22	22	22	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	15406.6	15406.6	15406.6	15406.6	15406.6
2.5°	15344.2	15408.8	15328.6	15415.5	15437.8
5°	15306.4	15359.8	15252.9	15299.7	15279.6
7.5°	15237.3	15255.1	15128.2	15166.0	15125.9
10°	15134.8	15125.9	14976.7	15050.2	15059.1
12.5°	14983.4	14956.6	14823.0	14934.3	14936.6
15°	14809.6	14751.7	14647.0	14776.2	14794.0
17.5°	14609.1	14533.4	14464.3	14631.4	14604.6
20°	14375.2	14286.1	14272.7	14455.4	14388.6
22.5°	14085.6	14016.5	14047.7	14221.5	14179.2
25°	13758.1	13698.0	13793.8	13920.8	13880.7
27.5°	13412.8	13377.2	13486.4	13584.4	13506.4
30°	13034.1	13014.1	13158.9	13239.1	13141.1
32.5°	12622.0	12628.7	12766.8	12876.0	12784.6
35°	12194.3	12223.3	12348.0	12479.4	12430.4
37.5°	11724.3	11788.9	11913.6	12062.9	12011.6
40°	11227.5	11321.1	11459.2	11639.6	11592.8
42.5°	10690.6	10808.7	10986.9	11187.4	11182.9
45°	10120.3	10285.2	10476.8	10744.1	10777.5
47.5°	9527.8	9712.7	9955.5	10311.9	10363.2
50°	8884.0	9115.7	9418.6	9846.3	9877.5
52.5°	8166.7	8483.0	8884.0	9293.9	9256.0
55°	7447.1	7805.8	8338.2	8672.3	8652.3
57.5°	6729.8	7133.0	7779.0	8017.4	8015.2
60°	5927.8	6438.0	7144.2	7324.6	7146.4
62.5°	5186.0	5734.0	6466.9	6335.5	5725.1
65°	4370.7	5054.6	5738.5	4843.0	3954.1
67.5°	3646.7	4359.6	4874.2	3317.0	2840.3
70°	2918.3	3704.6	3800.4	2461.6	2428.2
72.5°	2272.2	3109.8	2622.0	2107.4	2214.3
75°	1719.8	2495.0	1835.6	1877.9	2000.5
77.5°	1254.2	1915.8	1427.9	1646.3	1746.5
80°	862.1	1356.7	1165.1	1383.4	1452.4
82.5°	541.3	895.5	933.4	1113.8	1185.1
85°	296.3	568.1	728.5	879.9	922.3
87.5°	122.5	343.1	556.9	679.4	715.1
90°	2.2	189.4	376.5	472.3	494.5
92.5°	2.2	144.8	307.4	380.9	396.5
95°	2.2	118.1	258.4	314.1	323.0
97.5°	4.5	93.6	216.1	260.6	269.5
100°	6.7	78.0	180.4	218.3	225.0
102.5°	8.9	62.4	151.5	182.7	189.4
105°	8.9	51.2	127.0	153.7	160.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	15.6	31.2	75.7	95.8	100.2
115°	17.8	26.7	64.6	82.4	86.9
117.5°	17.8	22.3	55.7	69.1	73.5
120°	17.8	20.0	49.0	60.1	62.4
122.5°	17.8	17.8	42.3	53.5	55.7
125°	15.6	17.8	40.1	46.8	49.0
127.5°	17.8	17.8	35.6	42.3	44.6
130°	17.8	20.0	31.2	40.1	40.1
132.5°	20.0	22.3	29.0	37.9	37.9
135°	20.0	22.3	24.5	35.6	37.9
137.5°	22.3	22.3	22.3	33.4	35.6
140°	22.3	22.3	20.0	29.0	31.2
142.5°	20.0	22.3	20.0	26.7	29.0
145°	20.0	22.3	22.3	24.5	26.7
147.5°	22.3	22.3	22.3	22.3	24.5
150°	22.3	22.3	22.3	22.3	22.3
152.5°	22.3	22.3	22.3	22.3	22.3
155°	22.3	24.5	24.5	24.5	22.3
157.5°	22.3	24.5	24.5	24.5	24.5
160°	22.3	24.5	24.5	24.5	24.5
162.5°	24.5	24.5	24.5	24.5	24.5
165°	24.5	24.5	24.5	24.5	24.5
167.5°	24.5	26.7	24.5	24.5	24.5
170°	24.5	24.5	24.5	22.3	22.3
172.5°	24.5	24.5	24.5	22.3	22.3
175°	24.5	24.5	22.3	20.0	20.0
177.5°	26.7	24.5	22.3	20.0	17.8
180°	22.3	22.3	22.3	22.3	22.3



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	11.1	42.3	109.2	131.4	135.9
110°	13.4	35.6	91.3	111.4	115.8



(END OF REPORT)