

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: P829157

Luminaire Tested: **OHB-24HE-A-UNV-L740-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829157
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: OHB-24HE-A-UNV-L740-CD
Description: 24000 LUMEN OHB HE LED LUMINAIRE WITH 70CRI, 4000K LEDS AND AISLE LENS
Light Source: -
Ballast/Driver: -

Summary

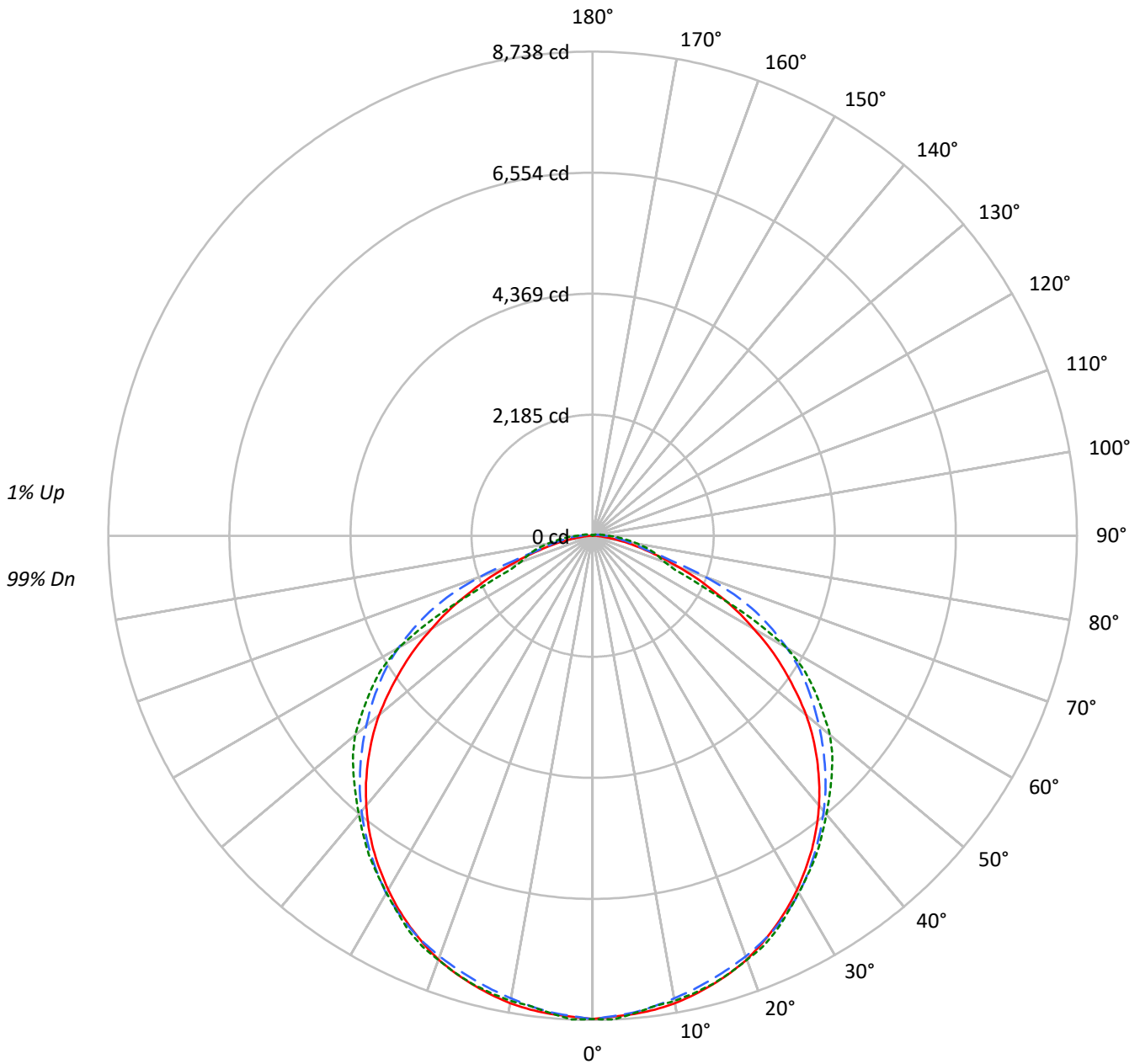
Lumens per Lamp: N/A
Luminaire Lumens: 24648.0 lumens
Efficiency: N/A
Efficacy: 189.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 1.93' x H: 0.17')
CIE Type: Direct

Input Watts (W): 130
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

TEST NUMBER: P829157

CATALOG NUMBER: OHB-24HE-A-UNV-L740-CD

Luminous Intensity Polar Plot





TEST NUMBER: P829157

CATALOG NUMBER: OHB-24HE-A-UNV-L740-CD

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°	26973	26973	26973
5°	26698	26513	26637
10°	26503	26044	26341
15°	26237	25678	26165
20°	25968	25422	25933
25°	25550	25162	25704
30°	25100	24792	25217
35°	24578	24244	24949
40°	23929	23677	24584
45°	23068	23028	24423
50°	21942	22293	24229
55°	20239	21558	23325
60°	18059	20521	21564
65°	15281	18701	13666
70°	12077	14438	9908
75°	8801	8436	10056
80°	5838	6841	9601
85°	2997	5984	8999



TEST NUMBER: P829157

CATALOG NUMBER: OHB-24HE-A-UNV-L740-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	822.3	3.3
10°-20°	2357.9	9.6
20°-30°	3601.2	14.6
30°-40°	4369.5	17.7
40°-50°	4579.6	18.6
50°-60°	4149.8	16.8
60°-70°	2782.3	11.3
70°-80°	1249.4	5.1
80°-90°	453.4	1.8
90°-100°	136.5	0.6
100°-110°	64.4	0.3
110°-120°	32.3	0.1
120°-130°	17.8	0.1
130°-140°	12.2	0.0
140°-150°	8.2	0.0
150°-160°	6.1	0.0
160°-170°	3.9	0.0
170°-180°	1.2	0.0
0°-30°	6781.3	27.5
0°-40°	11150.8	45.2
0°-60°	19880.2	80.7
0°-90°	24365.3	98.9
90°-120°	233.1	0.9
90°-150°	271.4	1.1
90°-180°	283.0	1.1
0°-180°	24648.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8720	8720	8720	8720	8720	
5°	8664	8694	8634	8660	8649	824
15°	8383	8350	8290	8364	8374	2367
25°	7787	7753	7808	7880	7857	3590
35°	6902	6919	6989	7064	7036	4314
45°	5728	5822	5930	6081	6100	4413
55°	4215	4418	4720	4909	4897	3763
65°	2474	2861	3248	2741	2238	2465
75°	973	1412	1039	1063	1132	1064
85°	168	322	412	498	522	205
90°	1	107	213	267	280	10
95°	1	67	146	178	183	2
105°	5	29	72	87	91	6
115°	10	15	37	47	49	9
125°	9	10	23	26	28	9
135°	11	13	14	20	21	9
145°	11	13	13	14	15	7
155°	13	14	14	14	13	6
165°	14	14	14	14	14	4
175°	14	14	13	11	11	1
180°	13	13	13	13	13	



TEST NUMBER: P829157

CATALOG NUMBER: OHB-24HE-A-UNV-L740-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8720.5	8720.5	8720.5	8720.5	8720.5
2.5°	8685.2	8721.7	8676.4	8725.5	8738.1
5°	8663.7	8694.0	8633.5	8660.0	8648.6
7.5°	8624.7	8634.7	8562.9	8584.3	8561.6
10°	8566.7	8561.6	8477.1	8518.7	8523.8
12.5°	8480.9	8465.8	8390.1	8453.2	8454.4
15°	8382.6	8349.8	8290.5	8363.6	8373.7
17.5°	8269.1	8226.2	8187.1	8281.7	8266.6
20°	8136.7	8086.2	8078.7	8182.1	8144.2
22.5°	7972.8	7933.7	7951.3	8049.7	8025.7
25°	7787.4	7753.4	7807.6	7879.5	7856.8
27.5°	7592.0	7571.8	7633.6	7689.1	7644.9
30°	7377.6	7366.3	7448.2	7493.6	7438.1
32.5°	7144.3	7148.1	7226.3	7288.1	7236.4
35°	6902.2	6918.6	6989.2	7063.6	7035.9
37.5°	6636.2	6672.8	6743.4	6827.9	6798.8
40°	6355.0	6408.0	6486.1	6588.3	6561.8
42.5°	6051.1	6118.0	6218.8	6332.3	6329.8
45°	5728.3	5821.6	5930.1	6081.4	6100.3
47.5°	5392.9	5497.6	5635.0	5836.8	5865.8
50°	5028.5	5159.7	5331.1	5573.2	5590.9
52.5°	4622.5	4801.6	5028.5	5260.5	5239.1
55°	4215.2	4418.2	4719.6	4908.7	4897.4
57.5°	3809.2	4037.4	4403.1	4538.0	4536.8
60°	3355.3	3644.0	4043.8	4145.9	4045.0
62.5°	2935.4	3245.6	3660.4	3586.0	3240.5
65°	2473.9	2861.0	3248.1	2741.2	2238.1
67.5°	2064.1	2467.6	2758.9	1877.5	1607.7
70°	1651.8	2096.9	2151.1	1393.3	1374.4
72.5°	1286.1	1760.2	1484.1	1192.8	1253.3
75°	973.4	1412.2	1039.0	1063.0	1132.3
77.5°	709.9	1084.4	808.2	931.8	988.6
80°	488.0	767.9	659.5	783.0	822.1
82.5°	306.4	506.9	528.3	630.5	670.8
85°	167.7	321.5	412.3	498.1	522.0
87.5°	69.4	194.2	315.2	384.6	404.8
90°	1.3	107.2	213.1	267.3	279.9
92.5°	1.3	82.0	174.0	215.6	224.4
95°	1.3	66.8	146.3	177.8	182.8
97.5°	2.5	53.0	122.3	147.5	152.6
100°	3.8	44.1	102.1	123.6	127.4
102.5°	5.0	35.3	85.7	103.4	107.2
105°	5.0	29.0	71.9	87.0	90.8



TEST NUMBER: P829157

CATALOG NUMBER: OHB-24HE-A-UNV-L740-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	8.8	17.7	42.9	54.2	56.7
115°	10.1	15.1	36.6	46.7	49.2
117.5°	10.1	12.6	31.5	39.1	41.6
120°	10.1	11.3	27.7	34.0	35.3
122.5°	10.1	10.1	24.0	30.3	31.5
125°	8.8	10.1	22.7	26.5	27.7
127.5°	10.1	10.1	20.2	24.0	25.2
130°	10.1	11.3	17.7	22.7	22.7
132.5°	11.3	12.6	16.4	21.4	21.4
135°	11.3	12.6	13.9	20.2	21.4
137.5°	12.6	12.6	12.6	18.9	20.2
140°	12.6	12.6	11.3	16.4	17.7
142.5°	11.3	12.6	11.3	15.1	16.4
145°	11.3	12.6	12.6	13.9	15.1
147.5°	12.6	12.6	12.6	12.6	13.9
150°	12.6	12.6	12.6	12.6	12.6
152.5°	12.6	12.6	12.6	12.6	12.6
155°	12.6	13.9	13.9	13.9	12.6
157.5°	12.6	13.9	13.9	13.9	13.9
160°	12.6	13.9	13.9	13.9	13.9
162.5°	13.9	13.9	13.9	13.9	13.9
165°	13.9	13.9	13.9	13.9	13.9
167.5°	13.9	15.1	13.9	13.9	13.9
170°	13.9	13.9	13.9	12.6	12.6
172.5°	13.9	13.9	13.9	12.6	12.6
175°	13.9	13.9	12.6	11.3	11.3
177.5°	15.1	13.9	12.6	11.3	10.1
180°	12.6	12.6	12.6	12.6	12.6



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	6.3	24.0	61.8	74.4	76.9
110°	7.6	20.2	51.7	63.0	65.6



(END OF REPORT)