

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: P828743

Luminaire Tested: **OHB-12HE-MCL-UNV-L930-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P828743
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-12HE-MCL-UNV-L930-CD
Description: 12000 LUMEN OHB HE LED LUMINAIRE WITH 90CRI, 3000K LEDS AND MEDIUM CLEAR LENS
Light Source: -
Ballast/Driver: -

Summary

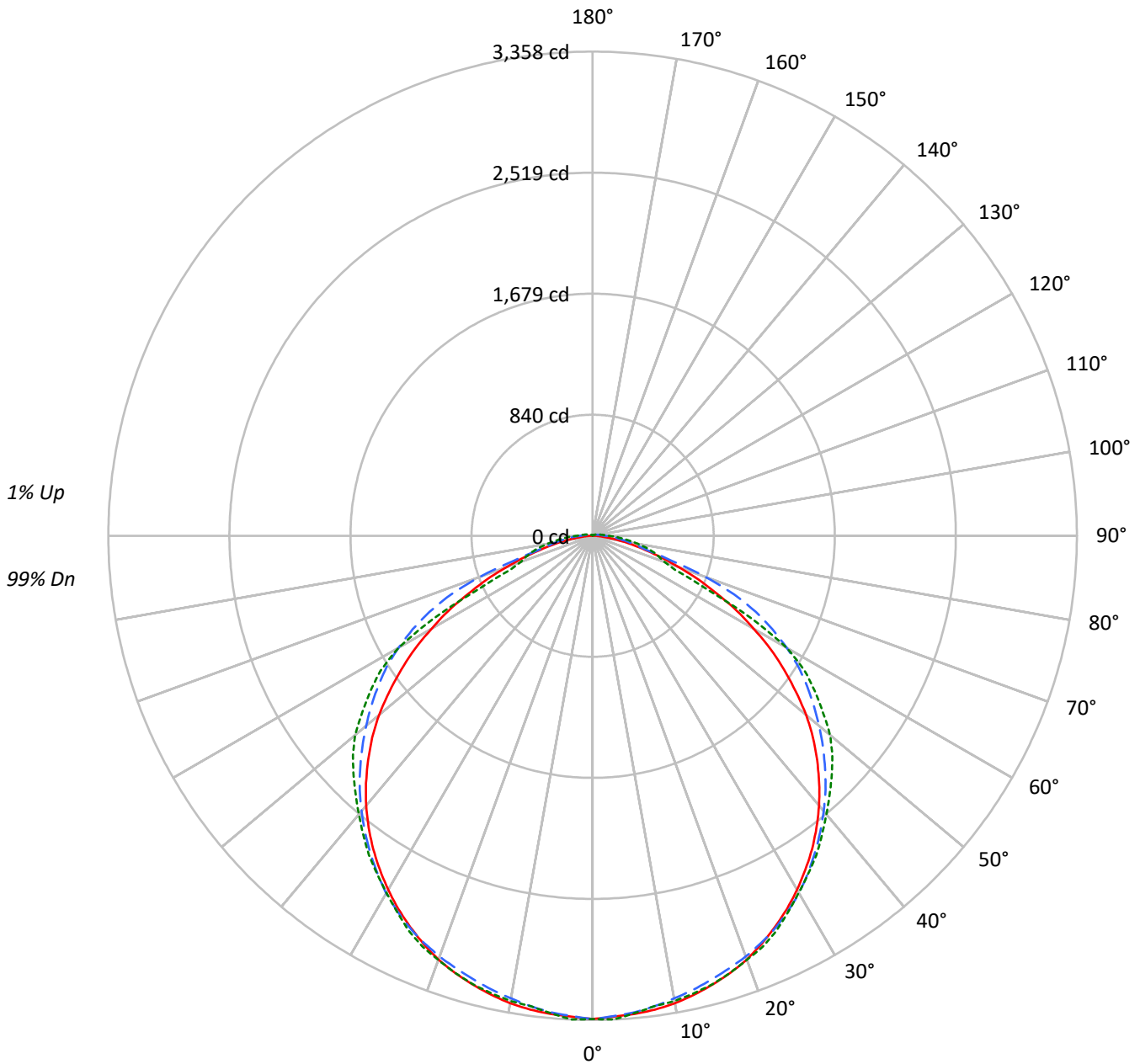
Lumens per Lamp: N/A
Luminaire Lumens: 9473.0 lumens
Efficiency: N/A
Efficacy: 135.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 1.93' x H: 0.17')
CIE Type: Direct

Input Watts (W): 70
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: P828743

CATALOG NUMBER: OHB-12HE-MCL-UNV-L930-CD

Luminous Intensity Polar Plot





TEST NUMBER: P828743

CATALOG NUMBER: OHB-12HE-MCL-UNV-L930-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°	11196	11196	11196
5°	11082	11000	11049
10°	11001	10801	10920
15°	10890	10644	10840
20°	10779	10533	10736
25°	10605	10420	10634
30°	10418	10262	10425
35°	10202	10030	10306
40°	9932	9789	10146
45°	9575	9514	10069
50°	9108	9204	9978
55°	8400	8892	9592
60°	7496	8455	8853
65°	6343	7695	5598
70°	5013	5929	4047
75°	3653	3455	4090
80°	2422	2792	3879
85°	1245	2425	3587



TEST NUMBER: P828743

CATALOG NUMBER: OHB-12HE-MCL-UNV-L930-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.0	3.3
10°-20°	906.2	9.6
20°-30°	1384.0	14.6
30°-40°	1679.3	17.7
40°-50°	1760.1	18.6
50°-60°	1594.9	16.8
60°-70°	1069.3	11.3
70°-80°	480.2	5.1
80°-90°	174.3	1.8
90°-100°	52.5	0.6
100°-110°	24.7	0.3
110°-120°	12.4	0.1
120°-130°	6.9	0.1
130°-140°	4.7	0.0
140°-150°	3.1	0.0
150°-160°	2.3	0.0
160°-170°	1.5	0.0
170°-180°	0.5	0.0
0°-30°	2606.3	27.5
0°-40°	4285.6	45.2
0°-60°	7640.6	80.7
0°-90°	9364.3	98.9
90°-120°	89.6	0.9
90°-150°	104.3	1.1
90°-180°	109.0	1.2
0°-180°	9473.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3352	3352	3352	3352	3352	
5°	3330	3341	3318	3328	3324	317
15°	3222	3209	3186	3214	3218	910
25°	2993	2980	3001	3028	3020	1380
35°	2653	2659	2686	2715	2704	1658
45°	2202	2237	2279	2337	2344	1696
55°	1620	1698	1814	1887	1882	1446
65°	951	1100	1248	1054	860	947
75°	374	543	399	408	435	409
85°	64	124	158	191	201	79
90°	0	41	82	103	108	4
95°	0	26	56	68	70	1
105°	2	11	28	33	35	2
115°	4	6	14	18	19	4
125°	3	4	9	10	11	3
135°	4	5	5	8	8	3
145°	4	5	5	5	6	3
155°	5	5	5	5	5	2
165°	5	5	5	5	5	1
175°	5	5	5	4	4	1
180°	5	5	5	5	5	



TEST NUMBER: P828743

CATALOG NUMBER: OHB-12HE-MCL-UNV-L930-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3351.6	3351.6	3351.6	3351.6	3351.6
2.5°	3338.0	3352.0	3334.6	3353.5	3358.3
5°	3329.7	3341.4	3318.1	3328.3	3323.9
7.5°	3314.7	3318.6	3291.0	3299.2	3290.5
10°	3292.4	3290.5	3258.0	3274.0	3276.0
12.5°	3259.5	3253.7	3224.6	3248.8	3249.3
15°	3221.7	3209.1	3186.3	3214.4	3218.3
17.5°	3178.1	3161.6	3146.6	3182.9	3177.1
20°	3127.2	3107.8	3104.9	3144.6	3130.1
22.5°	3064.2	3049.2	3055.9	3093.7	3084.5
25°	2992.9	2979.9	3000.7	3028.3	3019.6
27.5°	2917.8	2910.1	2933.8	2955.1	2938.2
30°	2835.4	2831.1	2862.6	2880.0	2858.7
32.5°	2745.8	2747.2	2777.3	2801.0	2781.2
35°	2652.7	2659.0	2686.2	2714.8	2704.1
37.5°	2550.5	2564.6	2591.7	2624.2	2613.0
40°	2442.4	2462.8	2492.8	2532.1	2521.9
42.5°	2325.6	2351.3	2390.1	2433.7	2432.7
45°	2201.6	2237.4	2279.1	2337.3	2344.5
47.5°	2072.7	2112.9	2165.7	2243.3	2254.4
50°	1932.6	1983.0	2048.9	2142.0	2148.8
52.5°	1776.6	1845.4	1932.6	2021.8	2013.6
55°	1620.0	1698.1	1813.9	1886.6	1882.2
57.5°	1464.0	1551.7	1692.3	1744.1	1743.6
60°	1289.5	1400.5	1554.1	1593.4	1554.6
62.5°	1128.2	1247.4	1406.8	1378.2	1245.4
65°	950.8	1099.6	1248.4	1053.5	860.2
67.5°	793.3	948.4	1060.3	721.6	617.9
70°	634.8	805.9	826.7	535.5	528.2
72.5°	494.3	676.5	570.4	458.4	481.7
75°	374.1	542.8	399.3	408.5	435.2
77.5°	272.8	416.8	310.6	358.1	379.9
80°	187.5	295.1	253.5	300.9	316.0
82.5°	117.8	194.8	203.1	242.3	257.8
85°	64.5	123.6	158.5	191.4	200.6
87.5°	26.7	74.6	121.2	147.8	155.6
90°	0.5	41.2	81.9	102.7	107.6
92.5°	0.5	31.5	66.9	82.9	86.3
95°	0.5	25.7	56.2	68.3	70.3
97.5°	1.0	20.4	47.0	56.7	58.6
100°	1.5	17.0	39.3	47.5	48.9
102.5°	1.9	13.6	33.0	39.7	41.2
105°	1.9	11.1	27.6	33.4	34.9



TEST NUMBER: P828743

CATALOG NUMBER: OHB-12HE-MCL-UNV-L930-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.4	6.8	16.5	20.8	21.8
115°	3.9	5.8	14.1	17.9	18.9
117.5°	3.9	4.8	12.1	15.0	16.0
120°	3.9	4.4	10.7	13.1	13.6
122.5°	3.9	3.9	9.2	11.6	12.1
125°	3.4	3.9	8.7	10.2	10.7
127.5°	3.9	3.9	7.8	9.2	9.7
130°	3.9	4.4	6.8	8.7	8.7
132.5°	4.4	4.8	6.3	8.2	8.2
135°	4.4	4.8	5.3	7.8	8.2
137.5°	4.8	4.8	4.8	7.3	7.8
140°	4.8	4.8	4.4	6.3	6.8
142.5°	4.4	4.8	4.4	5.8	6.3
145°	4.4	4.8	4.8	5.3	5.8
147.5°	4.8	4.8	4.8	4.8	5.3
150°	4.8	4.8	4.8	4.8	4.8
152.5°	4.8	4.8	4.8	4.8	4.8
155°	4.8	5.3	5.3	5.3	4.8
157.5°	4.8	5.3	5.3	5.3	5.3
160°	4.8	5.3	5.3	5.3	5.3
162.5°	5.3	5.3	5.3	5.3	5.3
165°	5.3	5.3	5.3	5.3	5.3
167.5°	5.3	5.8	5.3	5.3	5.3
170°	5.3	5.3	5.3	4.8	4.8
172.5°	5.3	5.3	5.3	4.8	4.8
175°	5.3	5.3	4.8	4.4	4.4
177.5°	5.8	5.3	4.8	4.4	3.9
180°	4.8	4.8	4.8	4.8	4.8



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	2.4	9.2	23.7	28.6	29.6
110°	2.9	7.8	19.9	24.2	25.2



(END OF REPORT)