

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: P830035

Luminaire Tested: **OHBL-24HE-MCL-UNV-L830-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830035
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-L830-CD
Description: 24000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 3000K LEDS AND MEDIUM CLEAR LENS
Light Source: -
Ballast/Driver: -

Summary

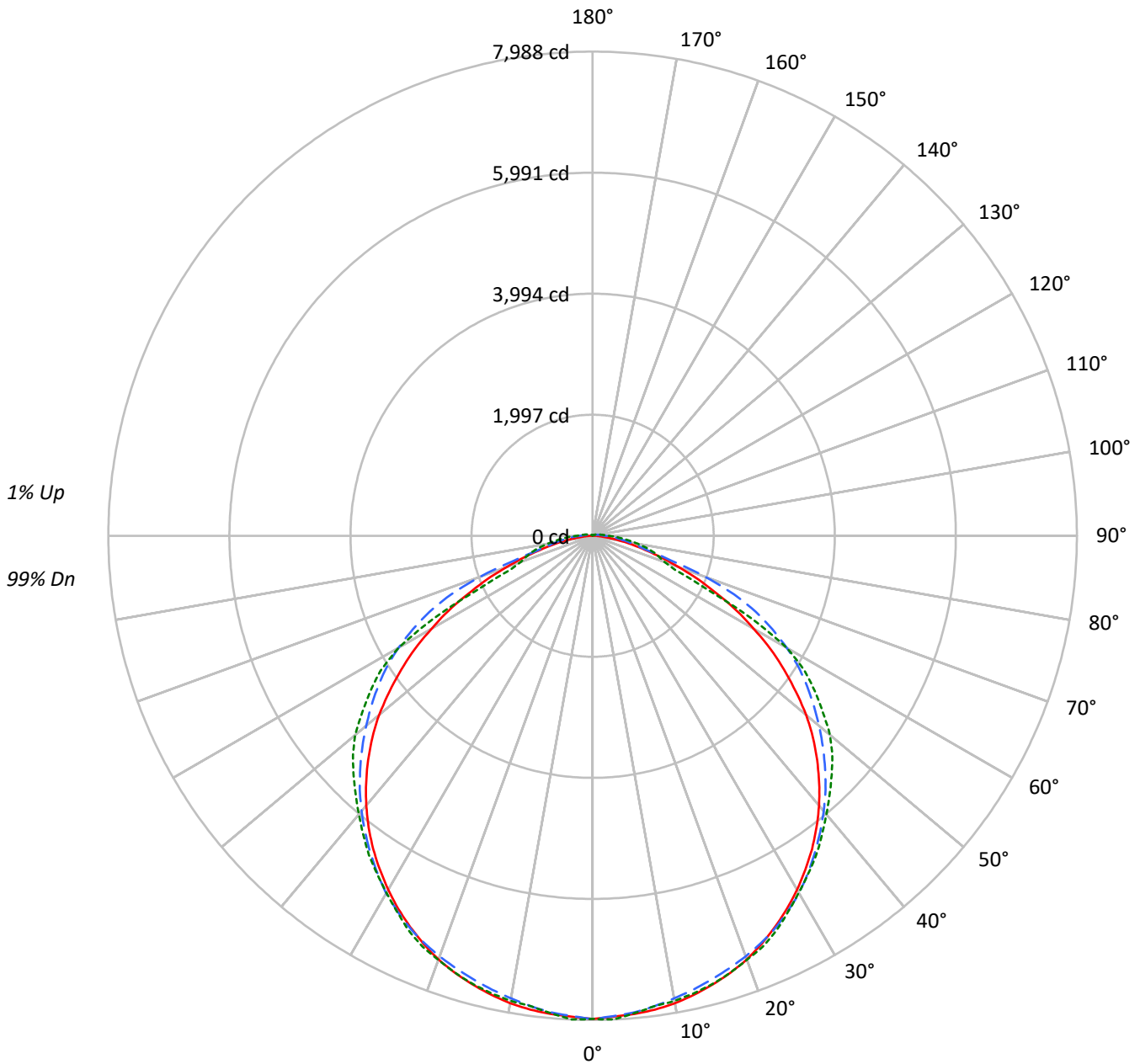
Lumens per Lamp: N/A
Luminaire Lumens: 22532.0 lumens
Efficiency: N/A
Efficacy: 169.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

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

TEST NUMBER: P830035

CATALOG NUMBER: OHBL-24HE-MCL-UNV-L830-CD

Luminous Intensity Polar Plot





TEST NUMBER: P830035

CATALOG NUMBER: OHBL-24HE-MCL-UNV-L830-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°	12607	12607	12607
5°	12525	12424	12450
10°	12479	12236	12312
15°	12400	12095	12230
20°	12321	12007	12121
25°	12172	11917	12014
30°	12010	11777	11787
35°	11817	11553	11661
40°	11565	11323	11491
45°	11217	11056	11415
50°	10745	10752	11325
55°	9995	10453	10902
60°	9013	10015	10079
65°	7732	9204	6388
70°	6228	7184	4631
75°	4669	4265	4700
80°	3250	3546	4487
85°	1850	3249	4206



TEST NUMBER: P830035

CATALOG NUMBER: OHBL-24HE-MCL-UNV-L830-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	751.7	3.3
10°-20°	2155.4	9.6
20°-30°	3292.0	14.6
30°-40°	3994.4	17.7
40°-50°	4186.5	18.6
50°-60°	3793.6	16.8
60°-70°	2543.4	11.3
70°-80°	1142.1	5.1
80°-90°	414.5	1.8
90°-100°	124.8	0.6
100°-110°	58.9	0.3
110°-120°	29.5	0.1
120°-130°	16.3	0.1
130°-140°	11.2	0.0
140°-150°	7.5	0.0
150°-160°	5.6	0.0
160°-170°	3.6	0.0
170°-180°	1.1	0.0
0°-30°	6199.1	27.5
0°-40°	10193.5	45.2
0°-60°	18173.5	80.7
0°-90°	22273.6	98.9
90°-120°	213.1	0.9
90°-150°	248.1	1.1
90°-180°	258.0	1.1
0°-180°	22532.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7972	7972	7972	7972	7972	
5°	7920	7948	7892	7916	7906	753
15°	7663	7633	7579	7646	7655	2164
25°	7119	7088	7137	7203	7182	3281
35°	6310	6325	6389	6457	6432	3944
45°	5237	5322	5421	5559	5577	4034
55°	3853	4039	4314	4487	4477	3440
65°	2262	2615	2969	2506	2046	2253
75°	890	1291	950	972	1035	973
85°	153	294	377	455	477	187
90°	1	98	195	244	256	9
95°	1	61	134	162	167	2
105°	5	26	66	80	83	5
115°	9	14	33	43	45	9
125°	8	9	21	24	25	8
135°	10	12	13	18	20	8
145°	10	12	12	13	14	7
155°	12	13	13	13	12	5
165°	13	13	13	13	13	4
175°	13	13	12	10	10	1
180°	12	12	12	12	12	



TEST NUMBER: P830035

CATALOG NUMBER: OHBL-24HE-MCL-UNV-L830-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7971.8	7971.8	7971.8	7971.8	7971.8
2.5°	7939.6	7973.0	7931.5	7976.5	7988.0
5°	7920.0	7947.6	7892.3	7916.5	7906.1
7.5°	7884.2	7893.5	7827.8	7847.4	7826.6
10°	7831.2	7826.6	7749.4	7787.4	7792.0
12.5°	7752.8	7739.0	7669.8	7727.5	7728.6
15°	7662.9	7633.0	7578.8	7645.6	7654.9
17.5°	7559.2	7520.0	7484.3	7570.7	7556.9
20°	7438.2	7392.0	7385.1	7479.7	7445.1
22.5°	7288.3	7252.6	7268.7	7358.6	7336.7
25°	7118.9	7087.7	7137.3	7203.0	7182.3
27.5°	6940.2	6921.8	6978.2	7029.0	6988.6
30°	6744.3	6733.9	6808.8	6850.3	6799.6
32.5°	6531.0	6534.5	6605.9	6662.4	6615.2
35°	6309.7	6324.7	6389.2	6457.2	6431.9
37.5°	6066.5	6099.9	6164.5	6241.7	6215.2
40°	5809.4	5857.9	5929.3	6022.7	5998.5
42.5°	5531.6	5592.7	5685.0	5788.7	5786.4
45°	5236.6	5321.9	5421.0	5559.3	5576.6
47.5°	4930.0	5025.6	5151.3	5335.7	5362.2
50°	4596.8	4716.7	4873.5	5094.8	5110.9
52.5°	4225.7	4389.4	4596.8	4808.9	4789.3
55°	3853.4	4038.9	4314.4	4487.3	4477.0
57.5°	3482.2	3690.8	4025.1	4148.4	4147.3
60°	3067.2	3331.2	3696.6	3790.0	3697.8
62.5°	2683.4	2967.0	3346.2	3278.2	2962.4
65°	2261.5	2615.4	2969.3	2505.9	2046.0
67.5°	1886.9	2255.8	2522.0	1716.3	1469.6
70°	1510.0	1916.9	1966.4	1273.7	1256.4
72.5°	1175.7	1609.1	1356.7	1090.4	1145.8
75°	889.9	1291.0	949.8	971.7	1035.1
77.5°	649.0	991.3	738.9	851.8	903.7
80°	446.1	702.0	602.8	715.8	751.5
82.5°	280.1	463.4	483.0	576.3	613.2
85°	153.3	293.9	376.9	455.3	477.2
87.5°	63.4	177.5	288.2	351.6	370.0
90°	1.2	98.0	194.8	244.4	255.9
92.5°	1.2	74.9	159.1	197.1	205.2
95°	1.2	61.1	133.7	162.5	167.1
97.5°	2.3	48.4	111.8	134.9	139.5
100°	3.5	40.3	93.4	113.0	116.4
102.5°	4.6	32.3	78.4	94.5	98.0
105°	4.6	26.5	65.7	79.5	83.0



TEST NUMBER: P830035

CATALOG NUMBER: OHBL-24HE-MCL-UNV-L830-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	8.1	16.1	39.2	49.6	51.9
115°	9.2	13.8	33.4	42.6	45.0
117.5°	9.2	11.5	28.8	35.7	38.0
120°	9.2	10.4	25.4	31.1	32.3
122.5°	9.2	9.2	21.9	27.7	28.8
125°	8.1	9.2	20.7	24.2	25.4
127.5°	9.2	9.2	18.4	21.9	23.1
130°	9.2	10.4	16.1	20.7	20.7
132.5°	10.4	11.5	15.0	19.6	19.6
135°	10.4	11.5	12.7	18.4	19.6
137.5°	11.5	11.5	11.5	17.3	18.4
140°	11.5	11.5	10.4	15.0	16.1
142.5°	10.4	11.5	10.4	13.8	15.0
145°	10.4	11.5	11.5	12.7	13.8
147.5°	11.5	11.5	11.5	11.5	12.7
150°	11.5	11.5	11.5	11.5	11.5
152.5°	11.5	11.5	11.5	11.5	11.5
155°	11.5	12.7	12.7	12.7	11.5
157.5°	11.5	12.7	12.7	12.7	12.7
160°	11.5	12.7	12.7	12.7	12.7
162.5°	12.7	12.7	12.7	12.7	12.7
165°	12.7	12.7	12.7	12.7	12.7
167.5°	12.7	13.8	12.7	12.7	12.7
170°	12.7	12.7	12.7	11.5	11.5
172.5°	12.7	12.7	12.7	11.5	11.5
175°	12.7	12.7	11.5	10.4	10.4
177.5°	13.8	12.7	11.5	10.4	9.2
180°	11.5	11.5	11.5	11.5	11.5



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	5.8	21.9	56.5	68.0	70.3
110°	6.9	18.4	47.3	57.6	59.9



(END OF REPORT)