

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: P830073

Luminaire Tested: **OHBL-24HE-NL-UNV-L840-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830073
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P472951)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-24HE-NL-UNV-L840-CD
Description: 24000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

Summary

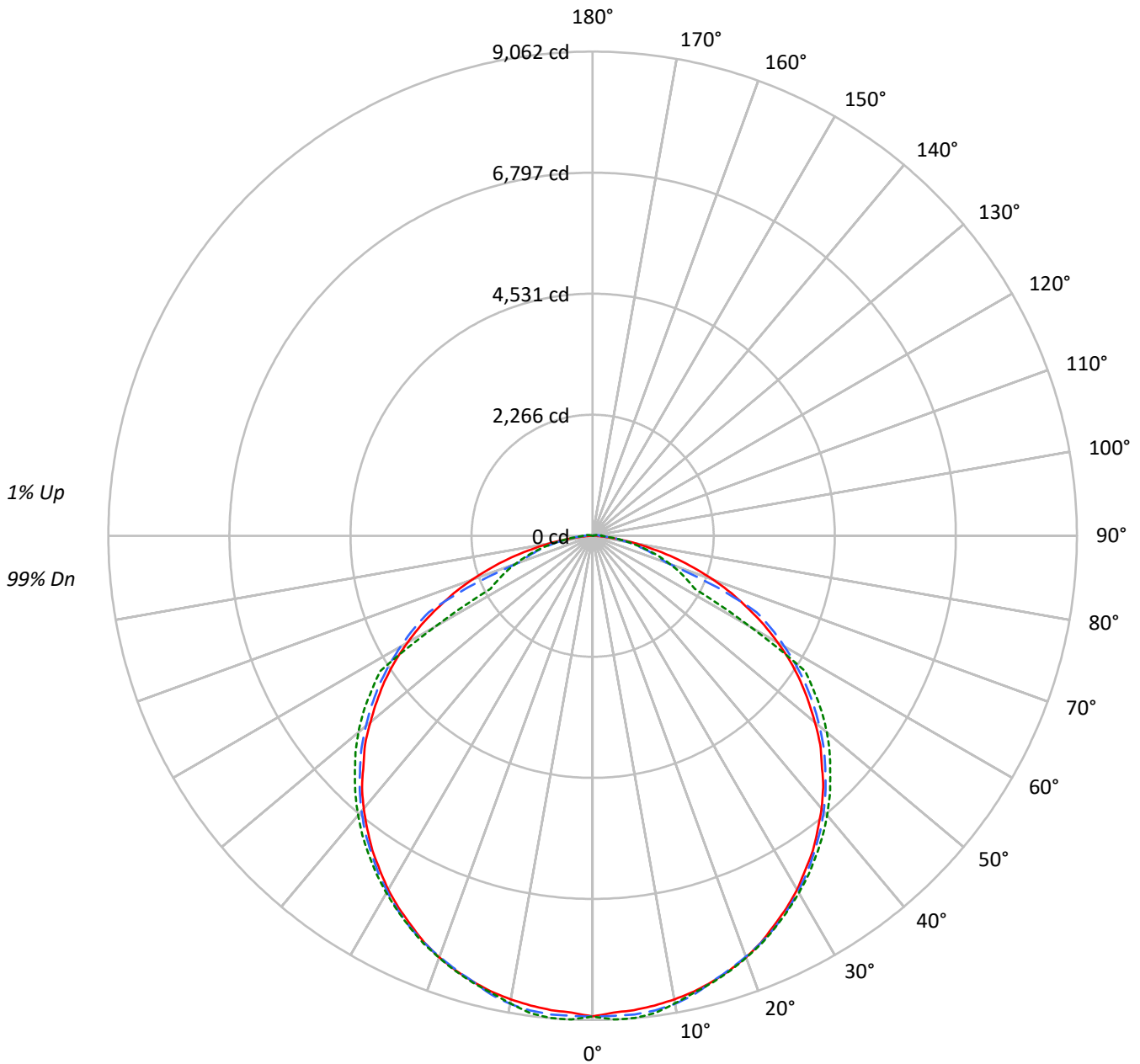
Lumens per Lamp: N/A
Luminaire Lumens: 25256.0 lumens
Efficiency: N/A
Efficacy: 189.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular (W 1.8' x L: 3.78' x H: 0')
CIE Type: Direct

Input Watts (W): 133
Input Voltage (V): NR
Input Current (Ain): 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	111	111	111	106	106	106	102	102	102	99																			
1	109	105	100	97	106	102	99	95	98	95	92	94	91	89	90	88	86	84																			
2	99	92	85	79	97	90	84	78	86	81	76	83	78	75	80	76	73	71																			
3	91	81	73	66	88	79	72	66	76	70	64	73	68	63	70	66	62	60																			
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51																			
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44																			
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39																			
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34																			
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30																			
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27																			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14226	14226	14226
5°	14148	14276	14383
10°	14152	14286	14268
15°	14149	14147	14178
20°	14130	14109	14143
25°	14033	14105	14116
30°	13968	14040	14095
35°	13878	13954	14085
40°	13758	13888	14094
45°	13559	13764	14065
50°	13355	13627	14078
55°	13100	13439	13923
60°	12661	13110	10839
65°	11979	12675	7295
70°	11079	6729	7080
75°	9664	6394	6761
80°	7432	5866	6196
85°	3751	5928	6071



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	854.6	3.4
10°-20°	2447.0	9.7
20°-30°	3723.3	14.7
30°-40°	4527.0	17.9
40°-50°	4759.9	18.8
50°-60°	4346.4	17.2
60°-70°	2786.3	11.0
70°-80°	1316.2	5.2
80°-90°	365.0	1.4
90°-100°	96.7	0.4
100°-110°	26.5	0.1
110°-120°	7.3	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	7024.9	27.8
0°-40°	11551.9	45.7
0°-60°	20658.2	81.8
0°-90°	25125.6	99.5
90°-120°	130.5	0.5
90°-150°	130.5	0.5
90°-180°	130.0	0.5
0°-180°	25256.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8996	8996	8996	8996	8996	
5°	8912	8947	8992	9041	9060	848
15°	8642	8707	8640	8653	8659	2440
25°	8042	8055	8083	8096	8089	3711
35°	7188	7146	7228	7316	7296	4492
45°	6063	6052	6154	6300	6288	4686
55°	4751	4715	4874	5037	5050	4237
65°	3201	3201	3387	1943	1949	3174
75°	1582	1612	1046	1102	1106	1667
85°	207	262	327	354	335	306
90°	0	88	145	172	169	9
95°	5	46	104	140	140	3
105°	8	17	25	25	24	8
115°	8	11	16	11	2	6
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CATALOG NUMBER: OHBL-24HE-NL-UNV-L840-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8995.5	8995.5	8995.5	8995.5	8995.5
2.5°	8932.4	8962.4	8995.5	9038.2	9061.7
5°	8911.8	8946.6	8992.4	9041.3	9060.2
7.5°	8867.7	8916.5	8960.8	8995.5	9006.6
10°	8812.4	8870.9	8896.1	8892.9	8885.1
12.5°	8738.2	8799.8	8792.0	8755.6	8761.9
15°	8641.9	8706.6	8640.4	8653.0	8659.3
17.5°	8528.3	8591.5	8514.1	8539.3	8541.0
20°	8395.8	8443.1	8383.1	8403.6	8403.6
22.5°	8236.3	8269.4	8244.2	8258.4	8261.6
25°	8042.2	8054.7	8083.1	8095.8	8089.4
27.5°	7856.0	7840.1	7895.4	7925.3	7909.5
30°	7649.1	7623.9	7688.5	7737.5	7718.6
32.5°	7412.3	7396.6	7470.8	7529.1	7518.1
35°	7188.2	7145.6	7227.6	7316.0	7295.5
37.5°	6923.0	6897.8	6990.8	7084.1	7073.1
40°	6664.1	6621.5	6727.3	6837.8	6826.7
42.5°	6386.4	6335.8	6451.1	6583.8	6571.1
45°	6062.7	6051.7	6154.3	6299.5	6288.5
47.5°	5775.6	5720.3	5863.8	6004.4	6017.1
50°	5428.2	5407.8	5538.8	5709.3	5721.8
52.5°	5088.9	5074.7	5211.9	5384.1	5406.1
55°	4751.0	4714.8	4874.2	5036.8	5049.5
57.5°	4389.7	4351.8	4514.4	4691.2	4717.9
60°	4002.9	3966.6	4144.9	4309.2	3426.8
62.5°	3616.2	3590.9	3777.3	2675.5	2156.3
65°	3201.1	3201.1	3387.2	1943.0	1949.4
67.5°	2812.8	2787.6	2525.6	1745.7	1745.7
70°	2396.1	2405.6	1455.2	1529.6	1531.1
72.5°	1977.8	2012.5	1256.5	1316.4	1319.5
75°	1581.6	1611.6	1046.5	1101.8	1106.5
77.5°	1161.8	893.4	841.2	884.0	885.5
80°	816.0	563.5	644.1	685.0	680.3
82.5°	476.6	394.6	471.9	502.0	500.3
85°	206.7	262.0	326.7	353.6	334.6
87.5°	66.2	162.6	203.5	219.4	217.7
90°	0.0	88.4	145.2	172.0	169.0
92.5°	0.0	69.4	126.3	157.9	159.4
95°	4.7	45.8	104.3	140.5	140.5
97.5°	3.2	33.1	74.2	110.5	113.6
100°	3.2	26.7	49.0	78.9	80.5
102.5°	7.9	22.1	29.9	50.5	52.1
105°	7.9	17.4	25.2	25.2	23.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	9.5	12.7	17.4	12.7	1.5
115°	7.9	11.0	15.7	11.0	1.5
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
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°	7.9	15.7	22.1	14.2	4.7
110°	9.5	14.2	18.9	12.7	1.5



(END OF REPORT)