

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: P830056

Luminaire Tested: **OHBL-24HE-N-UNV-L735-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830056
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-24HE-N-UNV-L735-CD
Description: 24000 LUMEN OHBL HE LED LUMINAIRE WITH 70CRI, 3500K LEDS AND NARROW LENS
Light Source: -
Ballast/Driver: -

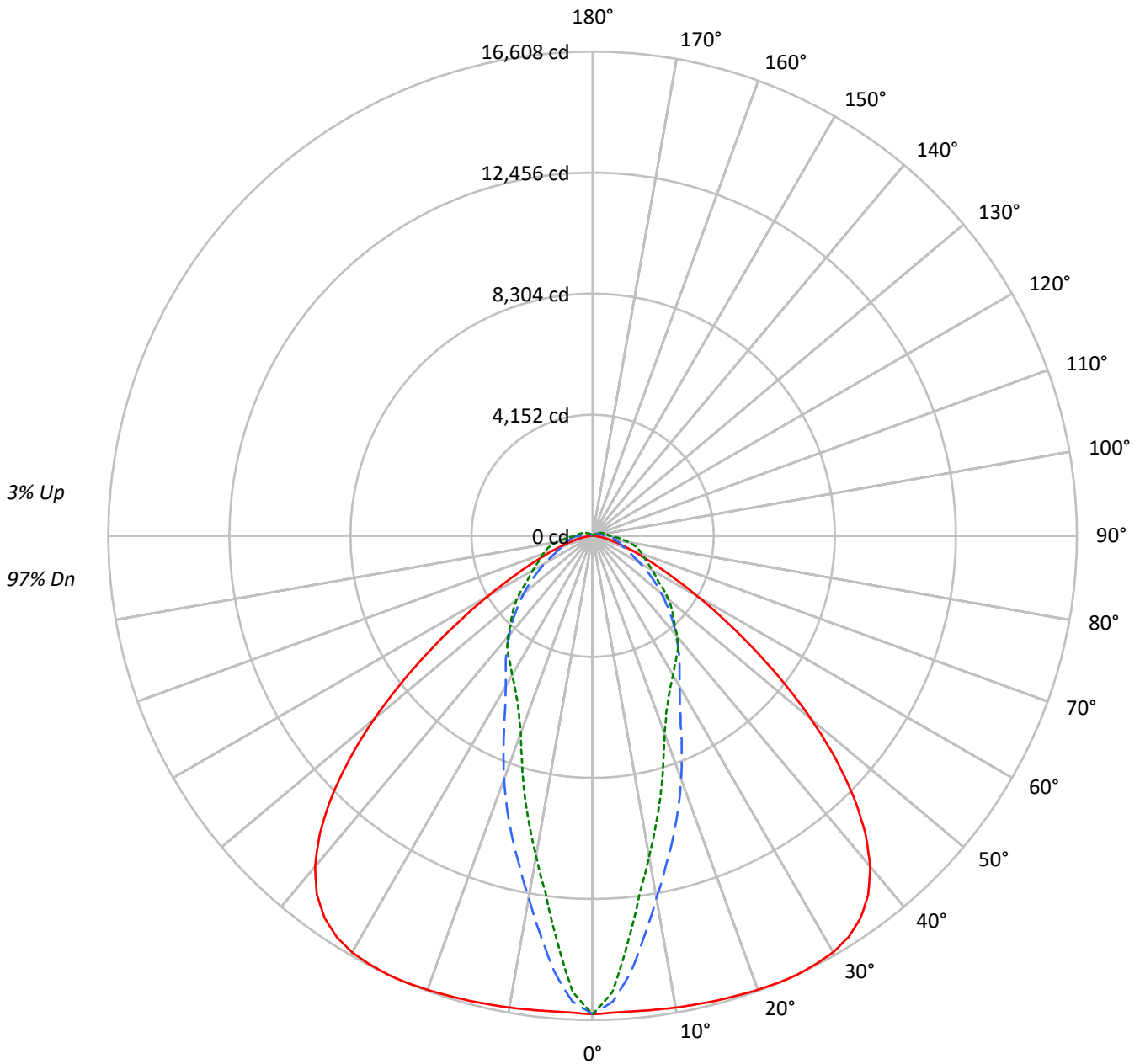
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24215.0 lumens
Efficiency: N/A
Efficacy: 182.1 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
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

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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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	97																	
1	109	104	100	97	106	102	98	95	97	94	91	92	90	88	88	86	85	85	85	82																	
2	100	93	86	81	97	90	85	80	86	82	78	83	79	75	79	76	73	73	73	71																	
3	92	83	75	69	90	81	74	69	78	72	67	74	70	65	72	67	64	64	64	62																	
4	85	74	66	60	83	73	66	60	70	64	59	67	62	57	65	60	56	56	56	54																	
5	79	67	59	53	77	66	59	53	64	57	52	62	56	51	59	54	50	50	50	48																	
6	74	62	53	47	72	60	53	47	58	52	46	56	50	46	55	49	45	45	45	43																	
7	69	56	48	43	67	55	48	42	54	47	42	52	46	41	50	45	41	41	41	39																	
8	65	52	44	39	63	51	44	39	50	43	38	48	42	38	47	41	37	37	37	35																	
9	61	48	41	35	59	47	40	35	46	40	35	45	39	35	44	38	34	34	34	32																	
10	57	45	37	33	56	44	37	32	43	37	32	42	36	32	41	35	32	32	32	30																	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25947	25947	25947
5°	25894	23640	21984
10°	26187	19922	17639
15°	26698	17046	14487
20°	27448	14420	11725
25°	28397	11941	10281
30°	29379	10293	9558
35°	29990	9386	9113
40°	29477	8483	8654
45°	27118	7672	8020
50°	22879	6783	7536
55°	17385	5947	6715
60°	12183	5107	6440
65°	8195	4405	6318
70°	5597	4142	6648
75°	3884	4284	7133
80°	2674	4767	7394
85°	1564	6017	7859



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1381.1	5.7
10°-20°	3249.0	13.4
20°-30°	4072.6	16.8
30°-40°	4321.5	17.8
40°-50°	3907.3	16.1
50°-60°	2833.1	11.7
60°-70°	1777.9	7.3
70°-80°	1176.5	4.9
80°-90°	677.8	2.8
90°-100°	328.4	1.4
100°-110°	226.7	0.9
110°-120°	139.9	0.6
120°-130°	67.7	0.3
130°-140°	31.1	0.1
140°-150°	17.0	0.1
150°-160°	7.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
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0°-30°	8702.7	35.9
0°-40°	13024.2	53.8
0°-60°	19764.6	81.6
0°-90°	23396.8	96.6
90°-120°	694.9	2.9
90°-150°	810.8	3.3
90°-180°	818.0	3.4
0°-180°	24215.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16407	16407	16407	16407	16407	
5°	16374	15954	15017	14321	13960	###
15°	16499	13448	10681	9499	9068	4679
25°	16608	10398	7152	6348	6146	7673
35°	16013	6913	5190	5028	5027	9955
45°	12659	4378	3762	3852	3918	9644
55°	6702	2714	2455	2662	2758	6056
65°	2397	1574	1421	1821	2024	2494
75°	740	848	954	1482	1571	825
85°	130	351	698	971	892	155
90°	0	147	404	570	575	8
95°	6	103	356	484	506	6
105°	12	69	259	344	353	13
115°	17	48	175	219	223	17
125°	19	25	89	112	111	16
135°	16	19	39	61	61	12
145°	19	20	23	36	34	11
155°	19	23	25	26	23	6
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P830056

CATALOG NUMBER: OHBL-24HE-N-UNV-L735-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	16407.0	16407.0	16407.0	16407.0	16407.0
2.5°	16372.6	16278.9	15986.9	15808.9	15659.0
5°	16374.2	15954.1	15017.2	14320.8	13960.0
7.5°	16397.6	15463.8	13775.8	12759.2	12362.6
10°	16433.5	14856.4	12617.1	11533.4	11163.3
12.5°	16460.0	14172.4	11597.5	10484.1	10078.1
15°	16499.1	13447.9	10680.8	9498.8	9067.8
17.5°	16535.0	12765.5	9775.2	8540.0	8060.6
20°	16570.9	12030.0	8869.5	7596.8	7201.8
22.5°	16605.3	11253.9	7985.6	6864.5	6594.3
25°	16608.4	10398.2	7151.8	6347.6	6146.2
27.5°	16567.8	9511.3	6475.6	5915.1	5790.1
30°	16497.5	8650.9	5951.0	5602.8	5513.7
32.5°	16322.6	7773.3	5545.0	5301.4	5249.9
35°	16013.4	6912.9	5190.5	5028.1	5026.6
37.5°	15526.3	6149.3	4806.4	4778.3	4812.6
40°	14806.4	5481.0	4442.5	4517.5	4517.5
42.5°	13846.1	4900.1	4113.1	4189.6	4169.3
45°	12659.3	4378.5	3761.7	3852.3	3917.9
47.5°	11283.6	3919.4	3402.6	3577.5	3668.0
50°	9787.6	3482.2	3074.6	3297.9	3401.0
52.5°	8219.9	3077.8	2754.5	3010.6	3093.4
55°	6702.1	2713.9	2454.7	2662.4	2757.7
57.5°	5327.9	2367.3	2161.2	2357.9	2554.7
60°	4145.9	2069.0	1884.8	2165.8	2362.6
62.5°	3166.8	1803.6	1625.5	1986.3	2183.0
65°	2396.9	1574.0	1421.0	1820.7	2023.7
67.5°	1806.7	1375.7	1261.7	1700.5	1898.8
70°	1357.0	1183.6	1133.7	1625.5	1803.6
72.5°	1002.5	1007.2	1032.2	1560.0	1695.8
75°	740.2	847.9	954.1	1481.9	1570.9
77.5°	529.4	702.7	883.8	1388.2	1419.4
80°	367.0	573.1	810.4	1264.8	1238.3
82.5°	229.5	459.1	744.8	1129.0	1055.6
85°	129.6	351.3	698.0	971.3	891.6
87.5°	57.8	262.3	610.6	757.3	707.4
90°	0.0	146.8	404.4	570.0	574.6
92.5°	3.1	121.8	373.2	521.5	537.2
95°	6.2	103.1	356.0	484.1	505.9
97.5°	7.8	90.6	334.2	449.7	468.5
100°	9.4	81.2	307.6	413.8	429.4
102.5°	10.9	75.0	282.6	376.3	388.8
105°	12.5	68.7	259.2	343.5	352.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	15.6	53.1	195.2	246.7	254.5
115°	17.2	48.4	174.9	218.6	223.3
117.5°	18.7	42.2	153.0	192.1	193.6
120°	18.7	37.5	131.2	164.0	164.0
122.5°	18.7	31.2	109.3	135.9	134.3
125°	18.7	25.0	89.0	112.4	110.9
127.5°	17.2	20.3	71.8	93.7	92.1
130°	17.2	20.3	57.8	79.6	79.6
132.5°	15.6	18.7	46.8	68.7	68.7
135°	15.6	18.7	39.0	60.9	60.9
137.5°	15.6	20.3	32.8	53.1	53.1
140°	15.6	18.7	28.1	46.8	46.8
142.5°	17.2	18.7	25.0	40.6	40.6
145°	18.7	20.3	23.4	35.9	34.4
147.5°	18.7	21.9	23.4	31.2	29.7
150°	18.7	23.4	23.4	28.1	26.5
152.5°	18.7	23.4	23.4	26.5	25.0
155°	18.7	23.4	25.0	26.5	23.4
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°	12.5	64.0	237.4	307.6	318.6
110°	14.1	57.8	217.1	274.8	285.8



(END OF REPORT)