

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: P830070

Luminaire Tested: **OHBL-24HE-NL-UNV-L750-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830070
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-L750-CD
Description: 24000 LUMEN OHBL HE LED LUMINAIRE WITH 70CRI, 5000K LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

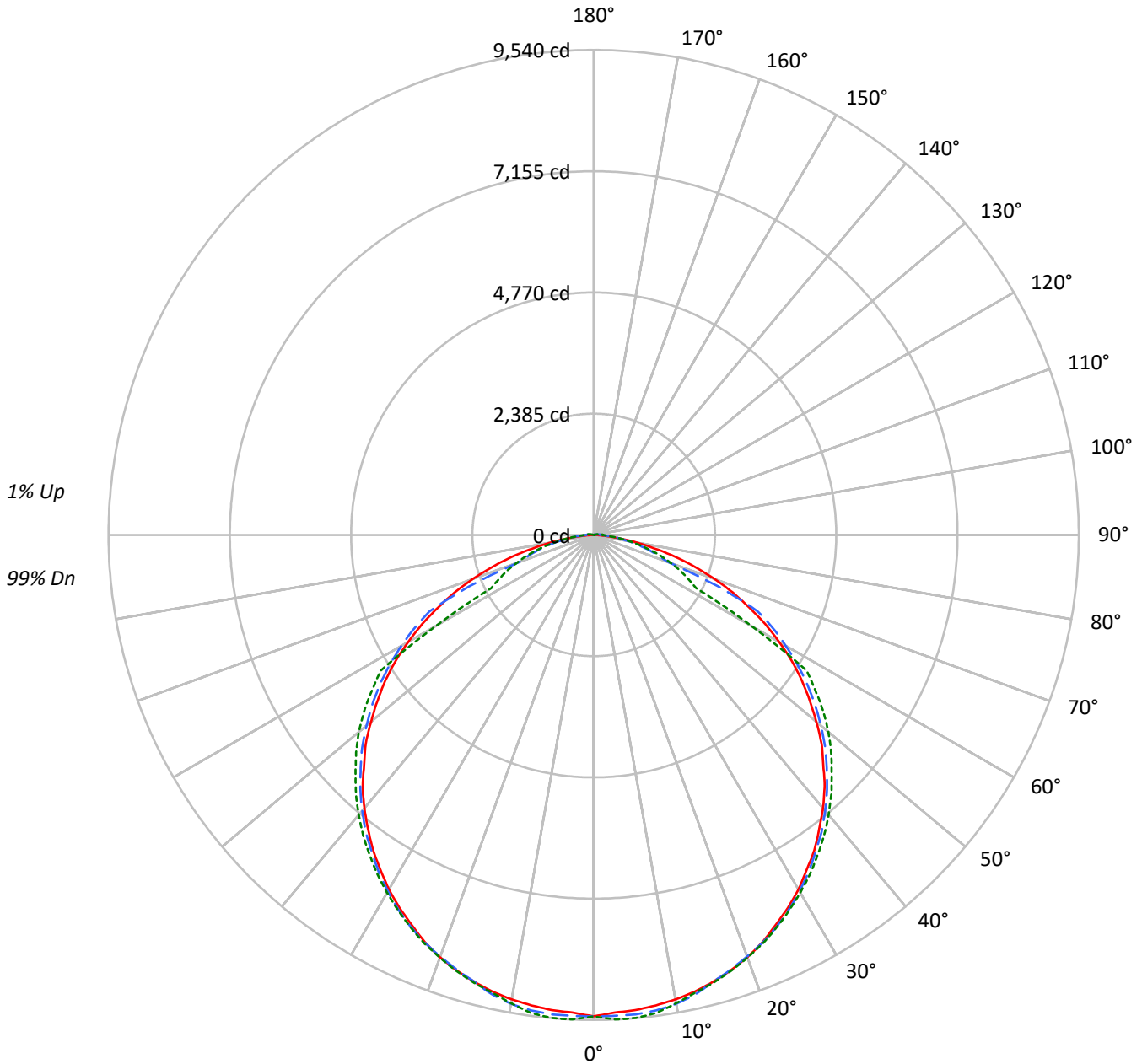
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26589.0 lumens
Efficiency: N/A
Efficacy: 199.9 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°	14977	14977	14977
5°	14894	15029	15142
10°	14898	15040	15021
15°	14896	14893	14926
20°	14876	14853	14890
25°	14774	14849	14861
30°	14705	14781	14839
35°	14610	14690	14828
40°	14484	14621	14838
45°	14275	14491	14807
50°	14060	14346	14821
55°	13791	14148	14657
60°	13329	13802	11411
65°	12611	13344	7680
70°	11664	7084	7453
75°	10174	6732	7118
80°	7824	6175	6523
85°	3948	6240	6391



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	899.7	3.4
10°-20°	2576.1	9.7
20°-30°	3919.8	14.7
30°-40°	4765.9	17.9
40°-50°	5011.1	18.8
50°-60°	4575.8	17.2
60°-70°	2933.3	11.0
70°-80°	1385.6	5.2
80°-90°	384.2	1.4
90°-100°	101.8	0.4
100°-110°	27.9	0.1
110°-120°	7.7	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°	7395.6	27.8
0°-40°	12161.6	45.7
0°-60°	21748.5	81.8
0°-90°	26451.7	99.5
90°-120°	137.3	0.5
90°-150°	137.3	0.5
90°-180°	137.0	0.5
0°-180°	26589.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9470	9470	9470	9470	9470	
5°	9382	9419	9467	9518	9538	892
15°	9098	9166	9096	9110	9116	2569
25°	8467	8480	8510	8523	8516	3907
35°	7568	7523	7609	7702	7680	4729
45°	6383	6371	6479	6632	6620	4933
55°	5002	4964	5131	5303	5316	4461
65°	3370	3370	3566	2046	2052	3341
75°	1665	1697	1102	1160	1165	1755
85°	218	276	344	372	352	322
90°	0	93	153	181	178	10
95°	5	48	110	148	148	3
105°	8	18	27	27	25	8
115°	8	12	16	12	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



TEST NUMBER: P830070

CATALOG NUMBER: OHBL-24HE-NL-UNV-L750-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9470.3	9470.3	9470.3	9470.3	9470.3
2.5°	9403.8	9435.5	9470.3	9515.2	9540.0
5°	9382.2	9418.8	9467.0	9518.5	9538.4
7.5°	9335.7	9387.1	9433.7	9470.3	9481.9
10°	9277.5	9339.1	9365.6	9362.3	9354.0
12.5°	9199.4	9264.3	9256.0	9217.7	9224.4
15°	9098.0	9166.1	9096.5	9109.7	9116.3
17.5°	8978.4	9044.9	8963.5	8990.0	8991.8
20°	8838.9	8888.7	8825.5	8847.2	8847.2
22.5°	8671.1	8705.9	8679.3	8694.3	8697.6
25°	8466.6	8479.8	8509.7	8523.1	8516.4
27.5°	8270.6	8253.9	8312.1	8343.6	8326.9
30°	8052.8	8026.3	8094.3	8145.9	8126.0
32.5°	7803.5	7787.0	7865.1	7926.5	7914.9
35°	7567.6	7522.7	7609.1	7702.2	7680.5
37.5°	7288.4	7261.8	7359.8	7458.0	7446.4
40°	7015.9	6971.0	7082.4	7198.7	7187.1
42.5°	6723.5	6670.2	6791.6	6931.2	6917.9
45°	6382.7	6371.1	6479.1	6632.0	6620.4
47.5°	6080.4	6022.2	6173.3	6321.3	6334.7
50°	5714.7	5693.2	5831.1	6010.6	6023.8
52.5°	5357.5	5342.6	5487.0	5668.2	5691.4
55°	5001.8	4963.6	5131.4	5302.6	5316.0
57.5°	4621.4	4581.5	4752.7	4938.8	4967.0
60°	4214.1	4176.0	4363.7	4536.6	3607.7
62.5°	3807.0	3780.5	3976.6	2816.7	2270.1
65°	3370.0	3370.0	3566.0	2045.6	2052.3
67.5°	2961.3	2934.7	2658.9	1837.8	1837.8
70°	2522.5	2532.6	1532.0	1610.3	1611.9
72.5°	2082.2	2118.8	1322.8	1385.8	1389.2
75°	1665.0	1696.7	1101.7	1159.9	1164.9
77.5°	1223.1	940.5	885.6	930.7	932.3
80°	859.1	593.2	678.0	721.2	716.2
82.5°	501.8	415.4	496.8	528.5	526.7
85°	217.6	275.9	343.9	372.3	352.2
87.5°	69.7	171.2	214.3	231.0	229.2
90°	0.0	93.1	152.9	181.0	177.9
92.5°	0.0	73.0	133.0	166.3	167.8
95°	4.9	48.2	109.8	148.0	148.0
97.5°	3.3	34.8	78.1	116.3	119.6
100°	3.3	28.1	51.5	83.0	84.8
102.5°	8.3	23.2	31.5	53.1	54.9
105°	8.3	18.3	26.6	26.6	25.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	10.0	13.4	18.3	13.4	1.6
115°	8.3	11.6	16.5	11.6	1.6
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°	8.3	16.5	23.2	15.0	4.9
110°	10.0	15.0	19.9	13.4	1.6



(END OF REPORT)