

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: P830080

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830080
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-24HE-W-UNV-L735-CD
Description: 24000 LUMEN OHBL HE LED LUMINAIRE WITH 70CRI, 3500K LEDS AND WIDE LENS
Light Source: -
Ballast/Driver: -

Summary

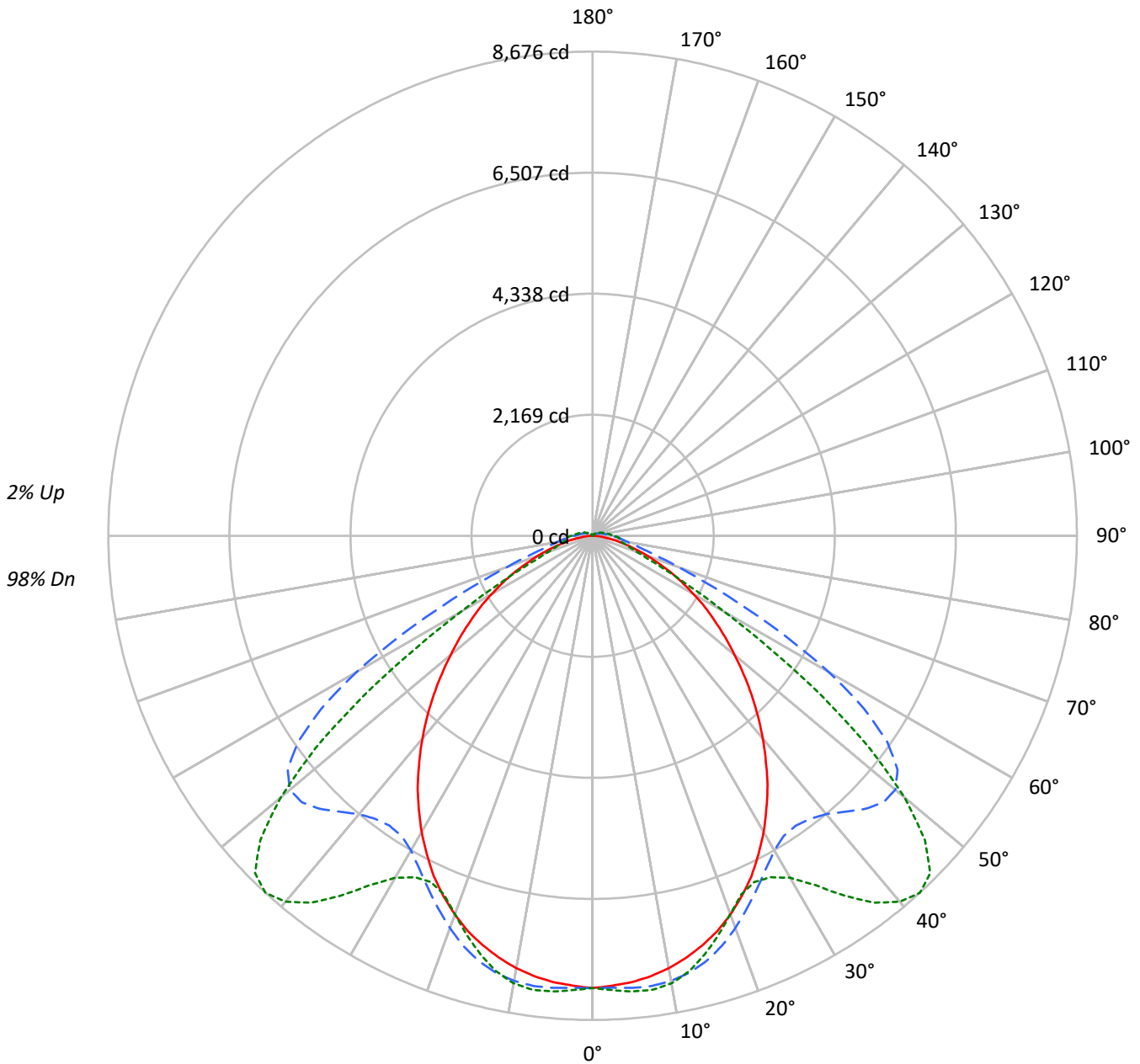
Lumens per Lamp: N/A
Luminaire Lumens: 24265.0 lumens
Efficiency: N/A
Efficacy: 182.4 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

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	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100	98																			
1	109	104	100	96	106	102	98	95	97	94	91	93	90	88	89	87	85	83																			
2	99	91	85	79	96	89	83	78	85	80	76	82	77	74	78	75	72	70																			
3	90	80	72	66	88	78	71	65	75	69	64	72	67	62	69	65	61	59																			
4	83	71	62	56	80	69	61	55	67	60	54	64	58	53	62	57	52	50																			
5	76	63	54	48	74	62	54	47	60	52	47	57	51	46	55	50	45	43																			
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	50	44	40	38																			
7	65	51	43	36	63	50	42	36	49	41	36	47	40	35	45	40	35	33																			
8	60	47	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29																			
9	56	43	34	29	55	42	34	29	41	34	28	39	33	28	38	32	28	26																			
10	52	39	31	26	51	39	31	26	38	31	26	36	30	26	35	30	25	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12816	12816	12816
5°	12697	12804	12908
10°	12538	12791	12869
15°	12293	12585	12402
20°	11958	12158	11742
25°	11510	11640	11453
30°	10913	11256	12263
35°	10233	11470	14271
40°	9443	12430	16398
45°	8618	14110	17505
50°	7757	15615	16159
55°	6948	15610	12228
60°	6125	13221	7387
65°	5254	9143	4405
70°	4269	5922	3113
75°	3248	4256	2795
80°	2331	3754	2986
85°	1582	4160	4207



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	774.4	3.2
10°-20°	2193.0	9.0
20°-30°	3209.0	13.2
30°-40°	4167.6	17.2
40°-50°	5089.2	21.0
50°-60°	4481.8	18.5
60°-70°	2335.5	9.6
70°-80°	1001.5	4.1
80°-90°	481.0	2.0
90°-100°	226.0	0.9
100°-110°	140.5	0.6
110°-120°	83.1	0.3
120°-130°	45.1	0.2
130°-140°	22.7	0.1
140°-150°	10.9	0.0
150°-160°	3.8	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	6176.4	25.5
0°-40°	10344.0	42.6
0°-60°	19915.0	82.1
0°-90°	23733.0	97.8
90°-120°	449.5	1.9
90°-150°	528.2	2.2
90°-180°	532.0	2.2
0°-180°	24265.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8104	8104	8104	8104	8104	
5°	8029	8090	8134	8206	8197	761
15°	7597	7810	7886	7826	7763	2139
25°	6732	7092	6971	6840	6847	3089
35°	5464	6041	6343	7398	7872	3406
45°	4023	5062	6919	8377	8552	3102
55°	2679	4434	6443	5649	5022	2404
65°	1537	3072	2950	1640	1411	1521
75°	619	1437	948	649	616	675
85°	131	512	483	472	477	146
90°	2	185	318	364	372	9
95°	4	108	254	297	306	3
105°	7	61	164	198	201	7
115°	10	35	101	124	128	11
125°	12	18	59	77	79	10
135°	10	10	28	47	49	8
145°	14	10	12	23	26	8
155°	14	14	10	10	10	4
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8104.1	8104.1	8104.1	8104.1	8104.1
2.5°	8069.1	8104.1	8105.8	8154.8	8149.5
5°	8028.9	8090.1	8133.8	8205.5	8196.7
7.5°	7962.4	8058.6	8135.5	8214.2	8207.2
10°	7868.0	7999.2	8100.6	8165.3	8144.3
12.5°	7745.6	7918.7	8018.4	8032.4	7992.2
15°	7597.0	7810.3	7885.5	7826.1	7763.1
17.5°	7429.2	7679.2	7705.4	7576.0	7497.4
20°	7219.4	7504.3	7478.1	7299.8	7212.4
22.5°	6986.8	7312.0	7228.1	7041.0	6957.1
25°	6731.5	7091.7	6971.1	6839.9	6846.9
27.5°	6432.5	6841.7	6724.5	6784.0	6895.9
30°	6128.3	6579.4	6507.7	6853.9	7074.2
32.5°	5794.4	6310.2	6374.8	7058.5	7418.7
35°	5463.9	6040.9	6343.4	7397.7	7871.5
37.5°	5098.5	5768.1	6394.1	7789.3	8285.9
40°	4743.5	5502.4	6509.5	8140.8	8560.4
42.5°	4381.6	5264.6	6703.6	8348.9	8675.8
45°	4023.2	5061.8	6918.6	8376.8	8551.7
47.5°	3664.8	4890.4	7067.2	8154.8	8074.3
50°	3318.6	4738.3	7077.7	7621.5	7292.8
52.5°	2995.1	4598.4	6885.4	6771.7	6261.2
55°	2678.6	4434.1	6443.0	5649.2	5021.5
57.5°	2390.1	4206.8	5761.1	4442.8	3757.4
60°	2084.2	3899.0	4879.9	3250.4	2710.1
62.5°	1802.7	3516.1	3892.1	2262.5	1947.8
65°	1536.9	3072.0	2949.6	1640.0	1411.0
67.5°	1255.4	2612.2	2176.8	1195.9	1049.1
70°	1035.1	2185.6	1620.8	930.2	844.5
72.5°	809.5	1779.9	1211.7	755.3	708.1
75°	619.0	1437.2	947.7	648.7	615.5
77.5°	456.3	1136.5	762.3	573.5	542.0
80°	320.0	895.2	638.2	512.3	500.1
82.5°	215.1	692.4	543.8	487.8	489.6
85°	131.1	512.3	482.6	472.1	477.3
87.5°	62.9	363.7	414.4	430.1	435.4
90°	1.7	185.3	318.2	363.7	372.4
92.5°	0.0	141.6	279.8	325.2	334.0
95°	3.5	108.4	253.5	297.2	306.0
97.5°	3.5	89.2	227.3	272.8	278.0
100°	5.2	76.9	202.8	246.5	251.8
102.5°	5.2	68.2	181.8	220.3	223.8
105°	7.0	61.2	164.4	197.6	201.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	10.5	42.0	115.4	139.9	143.4
115°	10.5	35.0	101.4	124.1	127.6
117.5°	12.2	31.5	89.2	110.2	111.9
120°	12.2	26.2	76.9	97.9	99.7
122.5°	12.2	21.0	68.2	87.4	89.2
125°	12.2	17.5	59.4	76.9	78.7
127.5°	10.5	12.2	50.7	68.2	69.9
130°	10.5	10.5	42.0	59.4	62.9
132.5°	10.5	10.5	35.0	52.5	56.0
135°	10.5	10.5	28.0	47.2	49.0
137.5°	10.5	10.5	22.7	40.2	43.7
140°	10.5	10.5	17.5	35.0	36.7
142.5°	12.2	10.5	15.7	29.7	31.5
145°	14.0	10.5	12.2	22.7	26.2
147.5°	14.0	12.2	12.2	19.2	21.0
150°	14.0	14.0	10.5	14.0	17.5
152.5°	14.0	14.0	10.5	10.5	14.0
155°	14.0	14.0	10.5	10.5	10.5
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°	8.7	54.2	146.9	176.6	180.1
110°	8.7	47.2	129.4	157.4	160.9



(END OF REPORT)