

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: P830064

Luminaire Tested: **OHBL-24HE-N-UNV-L935-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830064
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-L935-CD
Description: 24000 LUMEN OHBL HE LED LUMINAIRE WITH 90CRI, 3500K LEDS AND NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

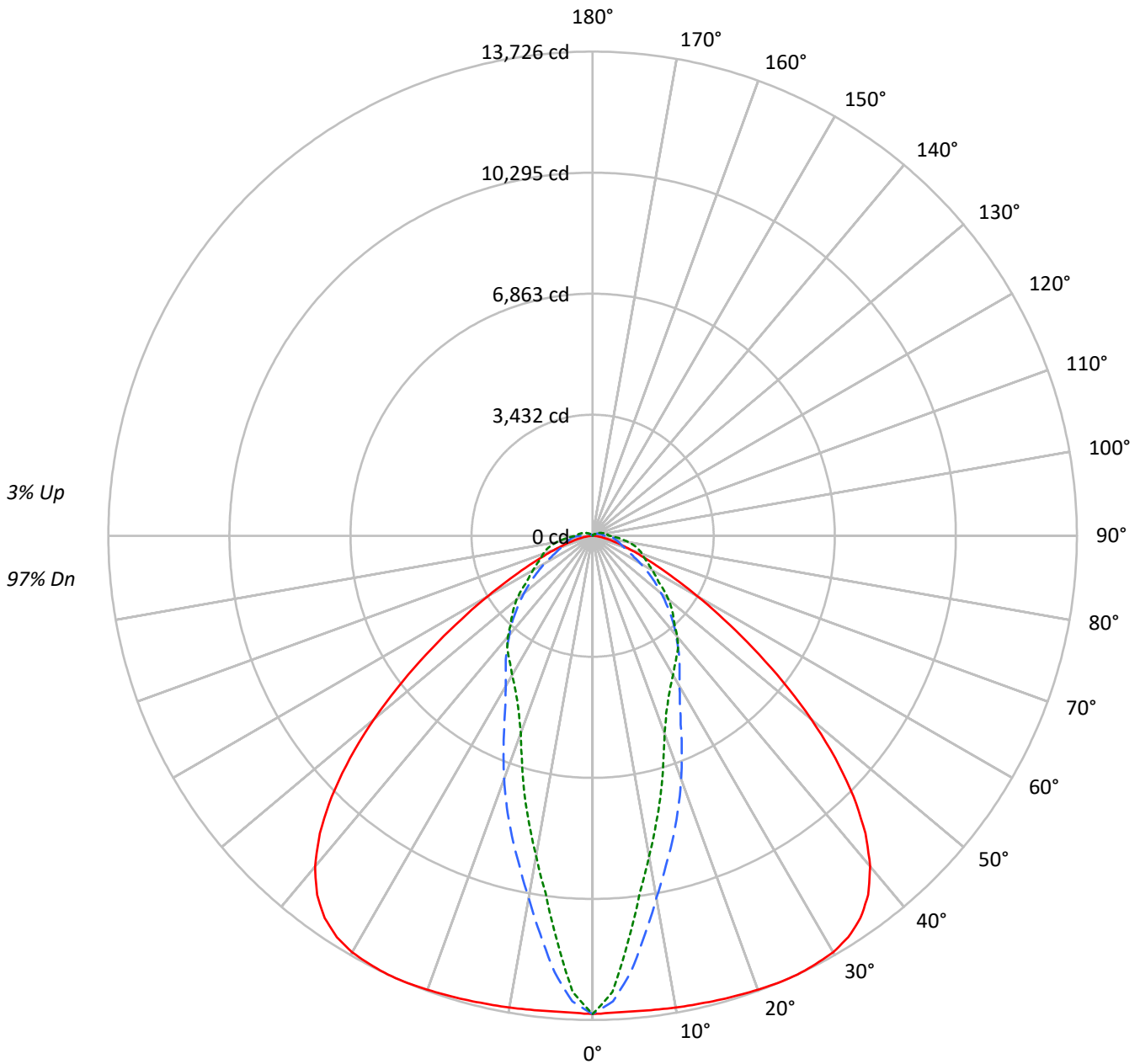
Lumens per Lamp: N/A
Luminaire Lumens: 20012.0 lumens
Efficiency: N/A
Efficacy: 150.5 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

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°	21444	21444	21444
5°	21400	19537	18168
10°	21641	16464	14577
15°	22064	14087	11972
20°	22684	11917	9690
25°	23468	9869	8496
30°	24279	8506	7899
35°	24785	7757	7532
40°	24361	7011	7152
45°	22411	6340	6628
50°	18908	5606	6228
55°	14367	4915	5550
60°	10068	4220	5322
65°	6772	3640	5222
70°	4625	3423	5494
75°	3210	3541	5895
80°	2210	3940	6111
85°	1292	4973	6496



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1141.4	5.7
10°-20°	2685.1	13.4
20°-30°	3365.7	16.8
30°-40°	3571.4	17.8
40°-50°	3229.1	16.1
50°-60°	2341.3	11.7
60°-70°	1469.3	7.3
70°-80°	972.3	4.9
80°-90°	560.2	2.8
90°-100°	271.4	1.4
100°-110°	187.3	0.9
110°-120°	115.6	0.6
120°-130°	56.0	0.3
130°-140°	25.7	0.1
140°-150°	14.1	0.1
150°-160°	6.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
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0°-30°	7192.2	35.9
0°-40°	10763.6	53.8
0°-60°	16334.0	81.6
0°-90°	19335.8	96.6
90°-120°	574.3	2.9
90°-150°	670.1	3.3
90°-180°	676.0	3.4
0°-180°	20012.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13559	13559	13559	13559	13559	
5°	13532	13185	12411	11835	11537	###
15°	13635	11114	8827	7850	7494	3867
25°	13726	8593	5910	5246	5079	6341
35°	13234	5713	4290	4155	4154	8227
45°	10462	3618	3109	3184	3238	7970
55°	5539	2243	2029	2200	2279	5004
65°	1981	1301	1174	1505	1672	2061
75°	612	701	788	1225	1298	682
85°	107	290	577	803	737	128
90°	0	121	334	471	475	7
95°	5	85	294	400	418	5
105°	10	57	214	284	292	10
115°	14	40	144	181	184	14
125°	16	21	74	93	92	13
135°	13	16	32	50	50	10
145°	16	17	19	30	28	9
155°	16	19	21	22	19	5
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°	13559.2	13559.2	13559.2	13559.2	13559.2
2.5°	13530.8	13453.4	13212.1	13064.9	12941.1
5°	13532.1	13185.0	12410.7	11835.1	11537.0
7.5°	13551.5	12779.7	11384.7	10544.6	10216.8
10°	13581.1	12277.7	10427.2	9531.6	9225.7
12.5°	13603.1	11712.5	9584.5	8664.4	8328.8
15°	13635.3	11113.7	8827.0	7850.1	7493.9
17.5°	13665.0	10549.8	8078.5	7057.7	6661.5
20°	13694.7	9941.9	7330.0	6278.2	5951.7
22.5°	13723.1	9300.6	6599.6	5673.0	5449.7
25°	13725.7	8593.4	5910.5	5245.8	5079.4
27.5°	13692.1	7860.4	5351.7	4888.4	4785.1
30°	13634.0	7149.3	4918.1	4630.3	4556.7
32.5°	13489.5	6424.1	4582.5	4381.2	4338.6
35°	13234.0	5713.0	4289.6	4155.4	4154.1
37.5°	12831.4	5082.0	3972.1	3948.9	3977.3
40°	12236.4	4529.6	3671.4	3733.4	3733.4
42.5°	11442.8	4049.6	3399.2	3462.4	3445.6
45°	10462.0	3618.5	3108.8	3183.6	3237.8
47.5°	9325.1	3239.1	2812.0	2956.5	3031.4
50°	8088.8	2877.8	2541.0	2725.5	2810.7
52.5°	6793.1	2543.6	2276.4	2488.1	2556.5
55°	5538.8	2242.9	2028.7	2200.3	2279.0
57.5°	4403.2	1956.4	1786.0	1948.6	2111.2
60°	3426.3	1709.9	1557.6	1789.9	1952.5
62.5°	2617.1	1490.5	1343.4	1641.5	1804.1
65°	1980.9	1300.8	1174.3	1504.7	1672.5
67.5°	1493.1	1136.9	1042.7	1405.3	1569.2
70°	1121.4	978.2	936.9	1343.4	1490.5
72.5°	828.5	832.4	853.0	1289.2	1401.5
75°	611.7	700.7	788.5	1224.7	1298.2
77.5°	437.5	580.7	730.4	1147.2	1173.1
80°	303.3	473.6	669.8	1045.3	1023.4
82.5°	189.7	379.4	615.6	933.0	872.4
85°	107.1	290.4	576.8	802.7	736.9
87.5°	47.7	216.8	504.6	625.9	584.6
90°	0.0	121.3	334.2	471.0	474.9
92.5°	2.6	100.7	308.4	431.0	443.9
95°	5.2	85.2	294.2	400.1	418.1
97.5°	6.5	74.8	276.2	371.7	387.1
100°	7.7	67.1	254.2	342.0	354.9
102.5°	9.0	61.9	233.6	311.0	321.3
105°	10.3	56.8	214.2	283.9	291.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	12.9	43.9	161.3	203.9	210.4
115°	14.2	40.0	144.5	180.7	184.5
117.5°	15.5	34.8	126.5	158.7	160.0
120°	15.5	31.0	108.4	135.5	135.5
122.5°	15.5	25.8	90.3	112.3	111.0
125°	15.5	20.6	73.6	92.9	91.6
127.5°	14.2	16.8	59.4	77.4	76.1
130°	14.2	16.8	47.7	65.8	65.8
132.5°	12.9	15.5	38.7	56.8	56.8
135°	12.9	15.5	32.3	50.3	50.3
137.5°	12.9	16.8	27.1	43.9	43.9
140°	12.9	15.5	23.2	38.7	38.7
142.5°	14.2	15.5	20.6	33.6	33.6
145°	15.5	16.8	19.4	29.7	28.4
147.5°	15.5	18.1	19.4	25.8	24.5
150°	15.5	19.4	19.4	23.2	21.9
152.5°	15.5	19.4	19.4	21.9	20.6
155°	15.5	19.4	20.6	21.9	19.4
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°	10.3	52.9	196.2	254.2	263.3
110°	11.6	47.7	179.4	227.1	236.2



(END OF REPORT)