

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: P830060

Luminaire Tested: **OHBL-24HE-N-UNV-L835-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830060
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-L835-CD
Description: 24000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 3500K LEDS AND NARROW LENS
Light Source: -
Ballast/Driver: -

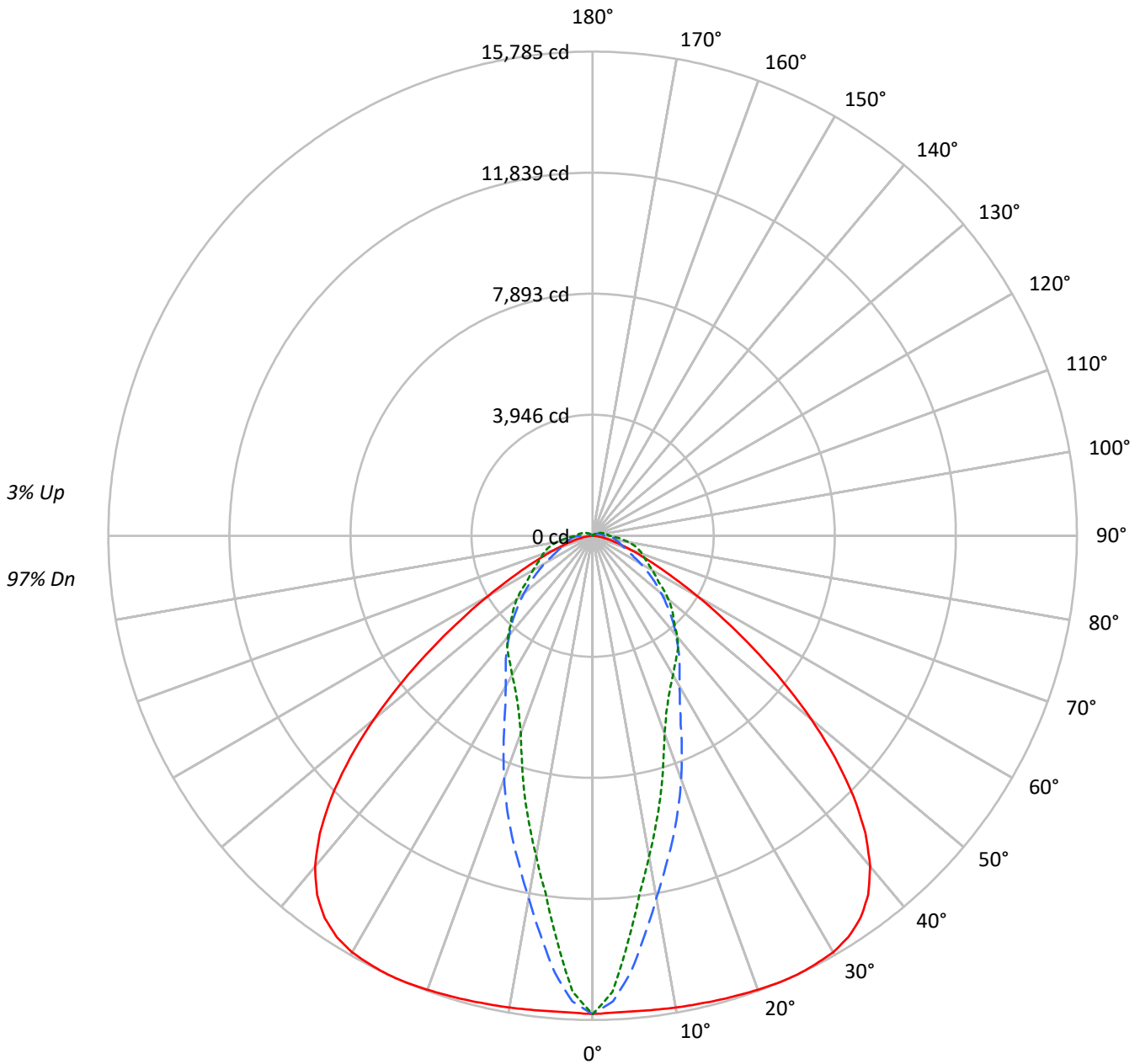
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23014.0 lumens
Efficiency: N/A
Efficacy: 173.0 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				20				
RC	80				70				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	99	97
1	109	104	100	97	106	102	98	95	97	94	91	92	90	88	88	86	85	85	85	85	82
2	100	93	86	81	97	90	85	80	86	82	78	83	79	75	79	76	73	73	73	73	71
3	92	83	75	69	90	81	74	69	78	72	67	74	70	65	72	67	64	64	64	64	62
4	85	74	66	60	83	73	66	60	70	64	59	67	62	57	65	60	56	56	56	56	54
5	79	67	59	53	77	66	59	53	64	57	52	62	56	51	59	54	50	50	50	50	48
6	74	62	53	47	72	60	53	47	58	52	46	56	50	46	55	49	45	45	45	45	43
7	69	56	48	43	67	55	48	42	54	47	42	52	46	41	50	45	41	41	41	41	39
8	65	52	44	39	63	51	44	39	50	43	38	48	42	38	47	41	37	37	37	37	35
9	61	48	41	35	59	47	40	35	46	40	35	45	39	35	44	38	34	34	34	34	32
10	57	45	37	33	56	44	37	32	43	37	32	42	36	32	41	35	32	32	32	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	24660	24660	24660
5°	24610	22468	20893
10°	24888	18934	16764
15°	25374	16200	13768
20°	26087	13705	11144
25°	26989	11349	9771
30°	27922	9782	9084
35°	28503	8920	8661
40°	28015	8063	8224
45°	25773	7291	7622
50°	21744	6447	7162
55°	16522	5652	6382
60°	11579	4853	6120
65°	7789	4186	6005
70°	5319	3936	6318
75°	3691	4072	6780
80°	2541	4531	7027
85°	1486	5719	7470



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1312.6	5.7
10°-20°	3087.9	13.4
20°-30°	3870.6	16.8
30°-40°	4107.1	17.8
40°-50°	3713.5	16.1
50°-60°	2692.6	11.7
60°-70°	1689.7	7.3
70°-80°	1118.2	4.9
80°-90°	644.2	2.8
90°-100°	312.1	1.4
100°-110°	215.4	0.9
110°-120°	132.9	0.6
120°-130°	64.4	0.3
130°-140°	29.6	0.1
140°-150°	16.2	0.1
150°-160°	7.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
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0°-30°	8271.1	35.9
0°-40°	12378.2	53.8
0°-60°	18784.3	81.6
0°-90°	22236.4	96.6
90°-120°	660.4	2.9
90°-150°	770.6	3.3
90°-180°	778.0	3.4
0°-180°	23014.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15593	15593	15593	15593	15593	
5°	15562	15163	14272	13610	13268	###
15°	15681	12781	10151	9028	8618	4447
25°	15785	9882	6797	6033	5841	7292
35°	15219	6570	4933	4779	4777	9461
45°	12031	4161	3575	3661	3724	9165
55°	6370	2579	2333	2530	2621	5755
65°	2278	1496	1350	1730	1923	2371
75°	704	806	907	1408	1493	784
85°	123	334	663	923	847	148
90°	0	140	384	542	546	8
95°	6	98	338	460	481	5
105°	12	65	246	326	335	12
115°	16	46	166	208	212	16
125°	18	24	85	107	105	15
135°	15	18	37	58	58	12
145°	18	19	22	34	33	11
155°	18	22	24	25	22	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°	15593.2	15593.2	15593.2	15593.2	15593.2
2.5°	15560.6	15471.5	15194.0	15024.8	14882.3
5°	15562.0	15162.8	14272.4	13610.5	13267.7
7.5°	15584.3	14696.8	13092.5	12126.4	11749.4
10°	15618.4	14119.5	11991.4	10961.4	10609.7
12.5°	15643.7	13469.5	11022.3	9964.1	9578.2
15°	15680.8	12780.9	10151.1	9027.6	8618.0
17.5°	15714.9	12132.3	9290.3	8116.4	7660.8
20°	15749.0	11433.3	8429.6	7220.0	6844.6
22.5°	15781.7	10695.8	7589.6	6524.0	6267.3
25°	15784.7	9882.5	6797.1	6032.8	5841.3
27.5°	15746.1	9039.5	6154.5	5621.7	5503.0
30°	15679.3	8221.8	5655.8	5324.9	5240.3
32.5°	15513.1	7387.7	5270.0	5038.4	4989.5
35°	15219.2	6570.0	4933.1	4778.7	4777.2
37.5°	14756.2	5844.3	4568.0	4541.3	4573.9
40°	14072.0	5209.1	4222.2	4293.4	4293.4
42.5°	13159.3	4657.0	3909.1	3981.8	3962.5
45°	12031.4	4161.4	3575.1	3661.2	3723.6
47.5°	10724.0	3725.0	3233.8	3400.0	3486.1
50°	9302.2	3309.5	2922.2	3134.4	3232.3
52.5°	7812.2	2925.1	2617.9	2861.3	2940.0
55°	6369.7	2579.3	2333.0	2530.4	2620.9
57.5°	5063.7	2249.9	2054.0	2241.0	2428.0
60°	3940.2	1966.4	1791.3	2058.4	2245.4
62.5°	3009.7	1714.1	1544.9	1887.7	2074.7
65°	2278.1	1496.0	1350.5	1730.4	1923.4
67.5°	1717.1	1307.5	1199.1	1616.2	1804.6
70°	1289.7	1124.9	1077.4	1544.9	1714.1
72.5°	952.8	957.2	981.0	1482.6	1611.7
75°	703.5	805.9	906.8	1408.4	1493.0
77.5°	503.1	667.8	840.0	1319.3	1349.0
80°	348.8	544.7	770.2	1202.1	1176.9
82.5°	218.2	436.3	707.9	1073.0	1003.2
85°	123.2	333.9	663.4	923.1	847.4
87.5°	54.9	249.3	580.3	719.8	672.3
90°	0.0	139.5	384.4	541.7	546.1
92.5°	3.0	115.8	354.7	495.7	510.5
95°	5.9	97.9	338.4	460.1	480.8
97.5°	7.4	86.1	317.6	427.4	445.2
100°	8.9	77.2	292.4	393.3	408.1
102.5°	10.4	71.2	268.6	357.7	369.5
105°	11.9	65.3	246.4	326.5	335.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	14.8	50.5	185.5	234.5	241.9
115°	16.3	46.0	166.2	207.8	212.2
117.5°	17.8	40.1	145.4	182.5	184.0
120°	17.8	35.6	124.7	155.8	155.8
122.5°	17.8	29.7	103.9	129.1	127.6
125°	17.8	23.7	84.6	106.9	105.4
127.5°	16.3	19.3	68.3	89.0	87.6
130°	16.3	19.3	54.9	75.7	75.7
132.5°	14.8	17.8	44.5	65.3	65.3
135°	14.8	17.8	37.1	57.9	57.9
137.5°	14.8	19.3	31.2	50.5	50.5
140°	14.8	17.8	26.7	44.5	44.5
142.5°	16.3	17.8	23.7	38.6	38.6
145°	17.8	19.3	22.3	34.1	32.6
147.5°	17.8	20.8	22.3	29.7	28.2
150°	17.8	22.3	22.3	26.7	25.2
152.5°	17.8	22.3	22.3	25.2	23.7
155°	17.8	22.3	23.7	25.2	22.3
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°	11.9	60.8	225.6	292.4	302.8
110°	13.4	54.9	206.3	261.2	271.6



(END OF REPORT)