

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: P829035

Luminaire Tested: **OHB-18HE-MFL-UNV-L730-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P829035  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHB-18HE-MFL-UNV-L730-CD  
Description: 18000 LUMEN OHB HE LED LUMINAIRE WITH 70CRI, 3000K LEDS AND MEDIUM FROSTED LENS  
Light Source: -  
Ballast/Driver: -

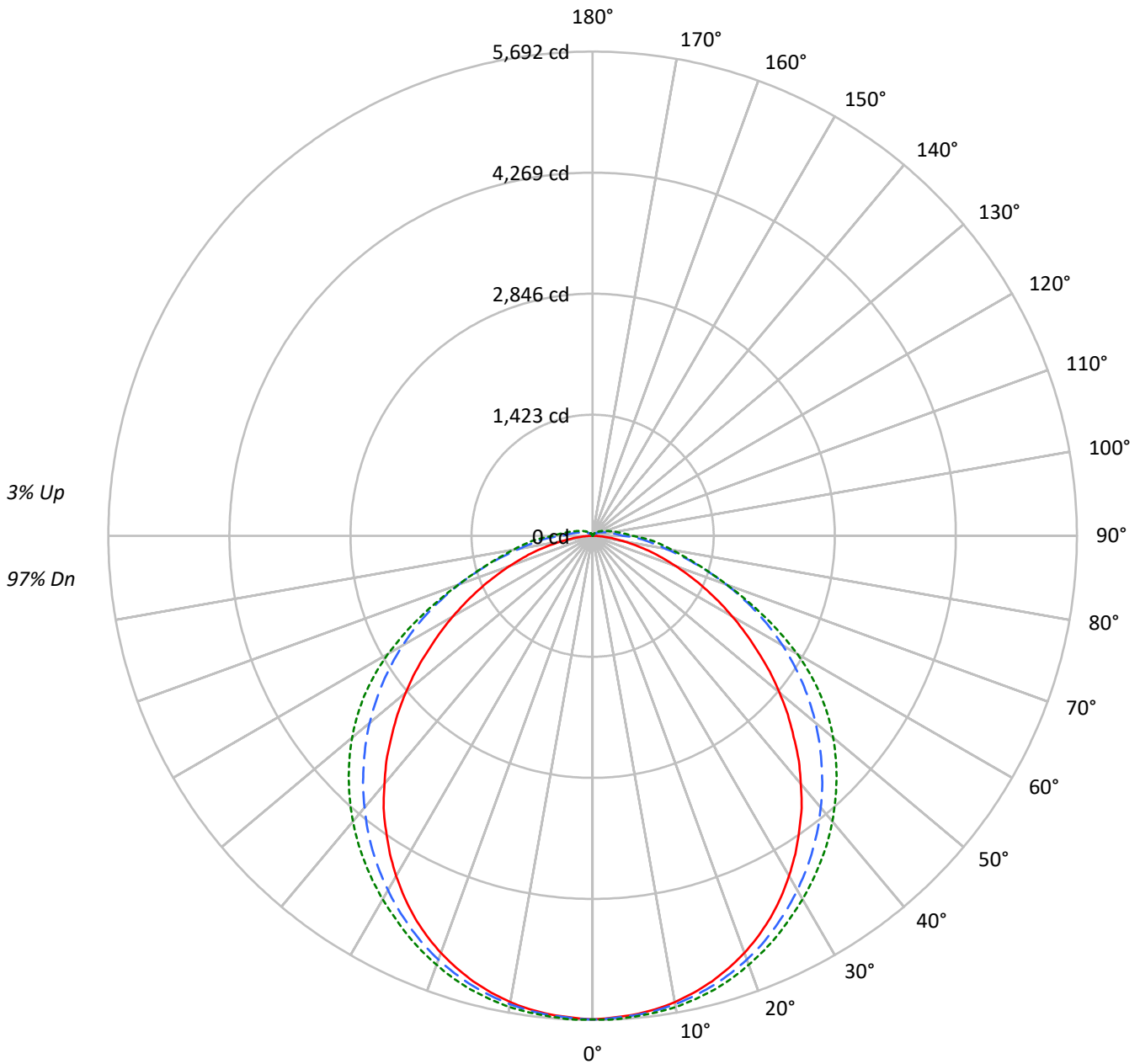
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17019.0 lumens  
Efficiency: N/A  
Efficacy: 162.1 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 1.93' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 105  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	107	102	98	94	104	100	96	92	95	91	88	90	88	85	86	84	82	82	82	82	80					
2	98	89	82	76	95	87	80	75	83	77	73	79	74	71	75	72	68	68	68	68	66					
3	89	78	70	63	86	76	69	62	73	66	61	70	64	59	67	62	58	58	58	58	56					
4	81	69	60	53	79	68	59	53	65	57	52	62	56	51	59	54	50	50	50	50	47					
5	75	62	53	46	72	60	52	46	58	50	45	56	49	44	53	48	43	43	43	43	41					
6	69	56	47	40	67	54	46	40	52	45	39	50	44	39	48	43	38	38	38	38	36					
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	44	38	34	34	34	34	32					
8	60	46	37	31	58	45	37	31	43	36	31	42	35	31	41	35	30	30	30	30	28					
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	37	32	27	27	27	27	25					
10	52	39	31	26	51	38	31	26	37	30	25	36	29	25	35	29	25	25	25	25	23					

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	18996	18996	18996
5°	18806	18759	18862
10°	18605	18538	18751
15°	18328	18285	18609
20°	17984	17988	18407
25°	17546	17630	18203
30°	16967	17247	17997
35°	16282	16841	17816
40°	15473	16379	17637
45°	14533	15878	17411
50°	13511	15366	17138
55°	12276	14750	16688
60°	11010	14030	15811
65°	9637	13124	14384
70°	8155	11988	12838
75°	6646	10671	11773
80°	4801	9594	11600
85°	2741	9453	12792



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	538.8	3.2
10°-20°	1545.8	9.1
20°-30°	2337.8	13.7
30°-40°	2806.6	16.5
40°-50°	2898.7	17.0
50°-60°	2608.0	15.3
60°-70°	1964.5	11.5
70°-80°	1186.2	7.0
80°-90°	580.2	3.4
90°-100°	244.2	1.4
100°-110°	139.4	0.8
110°-120°	81.8	0.5
120°-130°	46.3	0.3
130°-140°	24.4	0.1
140°-150°	11.8	0.1
150°-160°	4.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	4422.5	26.0
0°-40°	7229.1	42.5
0°-60°	12735.7	74.8
0°-90°	16466.7	96.8
90°-120°	465.4	2.7
90°-150°	547.9	3.2
90°-180°	552.0	3.2
0°-180°	17019.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5687	5687	5687	5687	5687	
5°	5650	5666	5659	5681	5674	537
15°	5422	5449	5474	5520	5525	1529
25°	4952	5006	5077	5156	5169	2278
35°	4234	4332	4511	4647	4675	2647
45°	3342	3510	3804	4011	4054	2580
55°	2367	2612	3009	3236	3275	2122
65°	1445	1740	2129	2235	2210	1435
75°	681	977	1233	1265	1253	726
85°	142	374	618	703	715	164
90°	0	146	354	445	463	9
95°	7	99	264	337	349	6
105°	10	57	153	200	209	10
115°	11	32	95	127	132	11
125°	11	15	57	82	86	10
135°	10	12	29	50	56	8
145°	14	12	14	25	29	8
155°	14	15	14	12	14	4
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P829035

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5686.6	5686.6	5686.6	5686.6	5686.6
2.5°	5669.9	5683.8	5675.5	5693.5	5692.2
5°	5650.4	5665.7	5658.8	5681.0	5674.1
7.5°	5617.0	5633.7	5632.3	5657.4	5654.6
10°	5568.3	5586.4	5592.0	5625.4	5625.4
12.5°	5501.5	5525.1	5539.1	5579.4	5580.8
15°	5422.2	5448.6	5473.7	5519.6	5525.1
17.5°	5326.1	5359.5	5394.3	5447.2	5454.2
20°	5217.6	5255.2	5302.5	5358.1	5366.5
22.5°	5092.3	5136.9	5198.1	5263.5	5273.2
25°	4951.8	5006.0	5077.0	5156.3	5168.9
27.5°	4791.7	4854.3	4950.4	5039.4	5050.6
30°	4617.7	4691.5	4811.2	4917.0	4935.1
32.5°	4434.0	4518.9	4666.5	4784.8	4809.8
35°	4233.6	4332.4	4510.6	4647.0	4674.8
37.5°	4036.0	4144.6	4346.4	4502.2	4535.6
40°	3805.0	3940.0	4171.0	4343.6	4383.9
42.5°	3587.9	3734.0	3995.6	4183.5	4222.5
45°	3341.5	3509.9	3803.6	4011.0	4054.1
47.5°	3110.5	3292.8	3618.5	3832.8	3877.3
50°	2867.0	3067.4	3420.9	3644.9	3690.9
52.5°	2623.4	2839.1	3216.3	3448.7	3491.8
55°	2367.3	2612.3	3008.9	3235.8	3274.7
57.5°	2129.3	2388.2	2796.0	3011.7	3035.4
60°	1894.1	2162.7	2578.9	2768.1	2776.5
62.5°	1664.5	1947.0	2356.2	2506.5	2495.4
65°	1444.6	1739.7	2129.3	2235.1	2210.1
67.5°	1233.1	1537.9	1896.9	1965.1	1931.7
70°	1032.7	1341.6	1671.5	1706.3	1675.6
72.5°	855.9	1155.1	1443.2	1472.4	1450.2
75°	680.6	977.0	1233.1	1265.1	1252.6
77.5°	516.3	804.4	1039.6	1081.4	1084.2
80°	371.6	647.2	871.2	936.6	945.0
82.5°	244.9	502.4	730.7	814.2	826.7
85°	142.0	374.4	617.9	702.8	715.3
87.5°	61.2	270.0	496.8	573.4	588.7
90°	0.0	146.1	353.5	445.4	463.4
92.5°	4.2	121.1	303.4	386.9	402.2
95°	7.0	98.8	264.4	336.8	349.3
97.5°	8.4	83.5	229.6	293.7	306.2
100°	8.4	72.4	199.0	257.5	268.6
102.5°	8.4	64.0	174.0	225.5	235.2
105°	9.7	57.1	153.1	200.4	208.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	11.1	37.6	105.8	142.0	147.5
115°	11.1	32.0	94.6	126.6	132.2
117.5°	12.5	27.8	83.5	114.1	118.3
120°	12.5	23.7	73.8	101.6	107.2
122.5°	12.5	19.5	65.4	91.9	96.0
125°	11.1	15.3	57.1	82.1	86.3
127.5°	9.7	12.5	48.7	73.8	77.9
130°	9.7	11.1	41.8	65.4	69.6
132.5°	9.7	12.5	34.8	57.1	62.6
135°	9.7	12.5	29.2	50.1	55.7
137.5°	9.7	12.5	23.7	43.1	48.7
140°	11.1	12.5	19.5	36.2	41.8
142.5°	12.5	12.5	15.3	30.6	34.8
145°	13.9	12.5	13.9	25.1	29.2
147.5°	13.9	13.9	13.9	19.5	23.7
150°	13.9	15.3	13.9	15.3	19.5
152.5°	13.9	15.3	13.9	12.5	15.3
155°	13.9	15.3	13.9	12.5	13.9
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°	9.7	50.1	135.0	178.1	185.1
110°	9.7	44.5	119.7	158.7	165.6



(END OF REPORT)