

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: P829933

Luminaire Tested: **OHBL-18HE-NL-UNV-L940-CD**

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P829933
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-18HE-NL-UNV-L940-CD
Description: 18000 LUMEN OHBL HE LED LUMINAIRE WITH 90CRI, 4000K LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

Summary

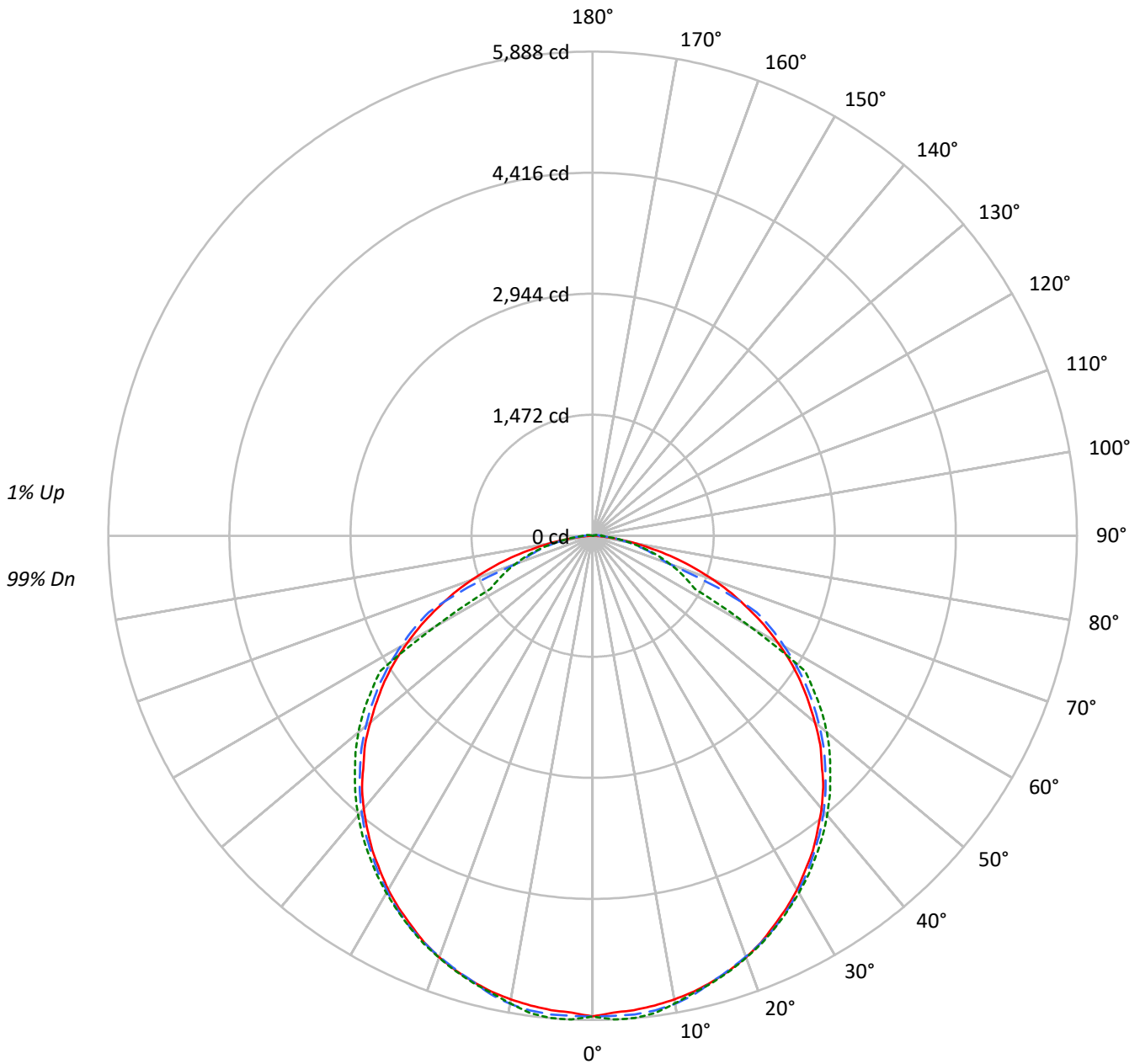
Lumens per Lamp: N/A
Luminaire Lumens: 16410.0 lumens
Efficiency: N/A
Efficacy: 159.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular (W 1.67' x L: 3.78' x H: 0')
CIE Type: Direct

Input Watts (W): 103
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°	9983	9983	9983
5°	9928	10018	10093
10°	9930	10025	10012
15°	9929	9927	9949
20°	9915	9900	9924
25°	9848	9898	9905
30°	9802	9852	9891
35°	9738	9792	9884
40°	9654	9746	9890
45°	9515	9659	9869
50°	9372	9563	9879
55°	9192	9431	9770
60°	8884	9200	7606
65°	8406	8894	5119
70°	7774	4722	4968
75°	6781	4487	4744
80°	5215	4116	4347
85°	2632	4160	4260



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	555.3	3.4
10°-20°	1589.9	9.7
20°-30°	2419.2	14.7
30°-40°	2941.4	17.9
40°-50°	3092.7	18.8
50°-60°	2824.0	17.2
60°-70°	1810.3	11.0
70°-80°	855.2	5.2
80°-90°	237.1	1.4
90°-100°	62.8	0.4
100°-110°	17.2	0.1
110°-120°	4.8	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°	4564.4	27.8
0°-40°	7505.8	45.7
0°-60°	13422.6	81.8
0°-90°	16325.2	99.5
90°-120°	84.8	0.5
90°-150°	84.8	0.5
90°-180°	85.0	0.5
0°-180°	16410.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5845	5845	5845	5845	5845	
5°	5790	5813	5843	5875	5887	551
15°	5615	5657	5614	5622	5626	1585
25°	5225	5234	5252	5260	5256	2411
35°	4670	4643	4696	4754	4740	2919
45°	3939	3932	3999	4093	4086	3045
55°	3087	3063	3167	3273	3281	2753
65°	2080	2080	2201	1262	1267	2062
75°	1028	1047	680	716	719	1083
85°	134	170	212	230	217	199
90°	0	57	94	112	110	6
95°	3	30	68	91	91	2
105°	5	11	16	16	15	5
115°	5	7	10	7	1	4
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



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5844.8	5844.8	5844.8	5844.8	5844.8
2.5°	5803.8	5823.3	5844.8	5872.5	5887.8
5°	5790.4	5813.0	5842.8	5874.6	5886.8
7.5°	5761.8	5793.5	5822.2	5844.8	5852.0
10°	5725.8	5763.8	5780.2	5778.2	5773.0
12.5°	5677.6	5717.7	5712.6	5688.9	5693.0
15°	5615.1	5657.1	5614.1	5622.2	5626.4
17.5°	5541.2	5582.3	5532.0	5548.4	5549.5
20°	5455.1	5485.9	5446.9	5460.2	5460.2
22.5°	5351.5	5373.0	5356.6	5365.9	5367.9
25°	5225.4	5233.5	5252.0	5260.2	5256.1
27.5°	5104.4	5094.1	5130.0	5149.5	5139.2
30°	4970.0	4953.6	4995.6	5027.4	5015.2
32.5°	4816.1	4805.9	4854.1	4892.0	4884.9
35°	4670.5	4642.8	4696.1	4753.6	4740.2
37.5°	4498.2	4481.8	4542.3	4602.9	4595.7
40°	4330.0	4302.3	4371.0	4442.8	4435.7
42.5°	4149.5	4116.6	4191.6	4277.8	4269.5
45°	3939.2	3932.1	3998.7	4093.1	4085.9
47.5°	3752.7	3716.7	3810.0	3901.3	3909.6
50°	3526.9	3513.7	3598.8	3709.6	3717.7
52.5°	3306.5	3297.3	3386.4	3498.3	3512.6
55°	3087.0	3063.4	3167.0	3272.6	3280.9
57.5°	2852.2	2827.6	2933.2	3048.1	3065.5
60°	2600.8	2577.3	2693.1	2799.9	2226.6
62.5°	2349.6	2333.2	2454.3	1738.4	1401.0
65°	2079.9	2079.9	2200.8	1262.5	1266.6
67.5°	1827.6	1811.2	1641.0	1134.2	1134.2
70°	1556.8	1563.0	945.5	993.8	994.8
72.5°	1285.1	1307.6	816.4	855.3	857.4
75°	1027.6	1047.2	679.9	715.9	718.9
77.5°	754.9	580.5	546.6	574.4	575.4
80°	530.2	366.1	418.5	445.1	442.0
82.5°	309.7	256.4	306.6	326.2	325.1
85°	134.3	170.3	212.3	229.8	217.4
87.5°	43.0	105.6	132.3	142.6	141.5
90°	0.0	57.4	94.4	111.7	109.8
92.5°	0.0	45.1	82.1	102.6	103.6
95°	3.0	29.8	67.8	91.3	91.3
97.5°	2.1	21.5	48.2	71.8	73.8
100°	2.1	17.4	31.8	51.3	52.3
102.5°	5.1	14.3	19.4	32.8	33.9
105°	5.1	11.3	16.4	16.4	15.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	6.2	8.3	11.3	8.3	1.0
115°	5.1	7.2	10.2	7.2	1.0
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°	5.1	10.2	14.3	9.2	3.0
110°	6.2	9.2	12.3	8.3	1.0



(END OF REPORT)