

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: P829945

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829945
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-18HE-W-UNV-L940-CD
Description: 18000 LUMEN OHBL HE LED LUMINAIRE WITH 90CRI, 4000K LEDS AND WIDE LENS
Light Source: -
Ballast/Driver: -

Summary

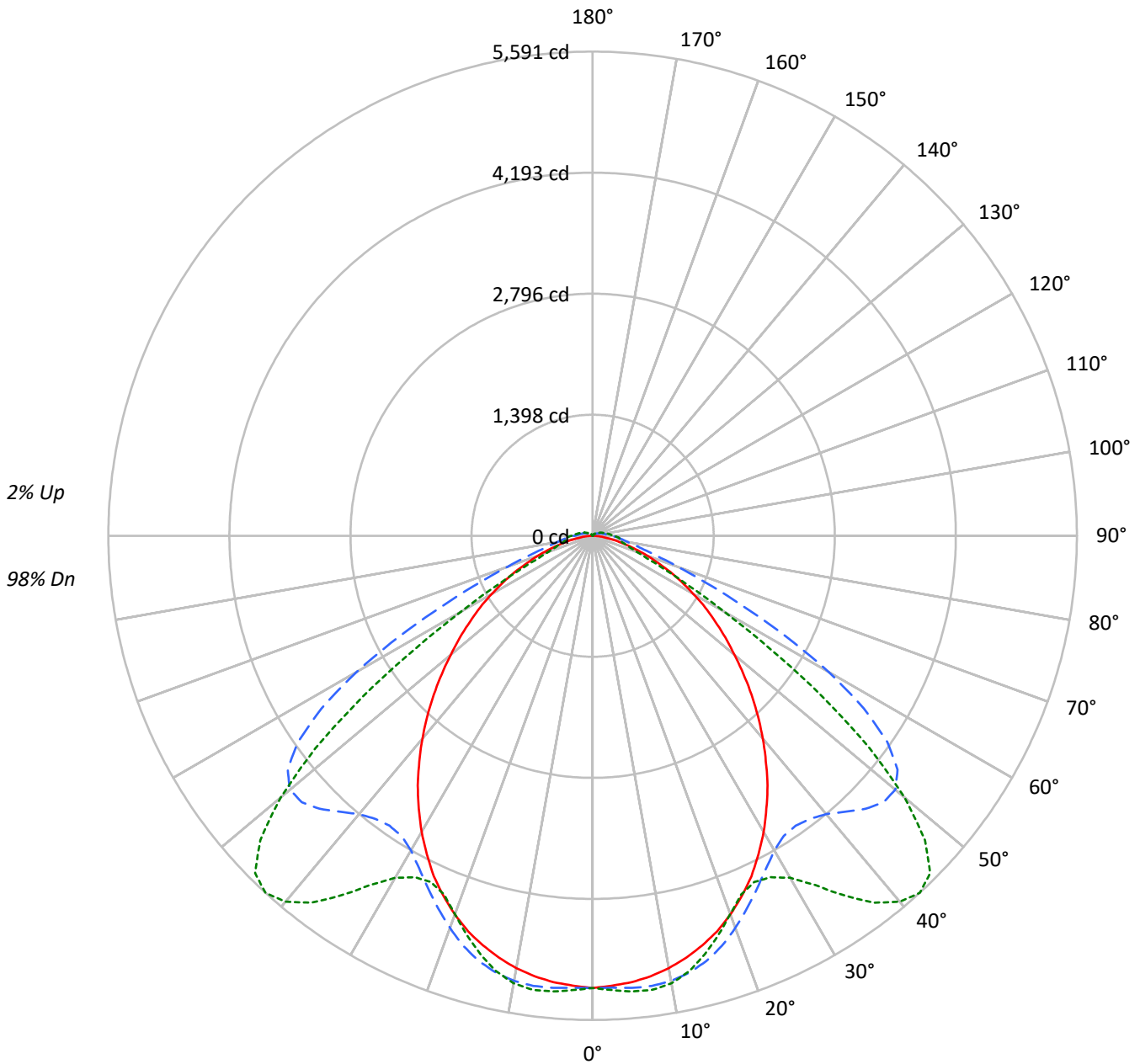
Lumens per Lamp: N/A
Luminaire Lumens: 15636.0 lumens
Efficiency: N/A
Efficacy: 151.8 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 103
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

TEST NUMBER: P829945

CATALOG NUMBER: OHBL-18HE-W-UNV-L940-CD

Luminous Intensity Polar Plot





TEST NUMBER: P829945

CATALOG NUMBER: OHBL-18HE-W-UNV-L940-CD

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	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°	8919	8919	8919
5°	8836	8907	8977
10°	8725	8893	8944
15°	8555	8746	8615
20°	8322	8445	8151
25°	8010	8082	7944
30°	7595	7811	8500
35°	7121	7955	9884
40°	6572	8616	11347
45°	5998	9773	12100
50°	5398	10806	11157
55°	4836	10793	8431
60°	4262	9130	5084
65°	3657	6304	3026
70°	2971	4075	2132
75°	2260	2920	1906
80°	1623	2563	2022
85°	1101	2815	2813



TEST NUMBER: P829945

CATALOG NUMBER: OHBL-18HE-W-UNV-L940-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	499.0	3.2
10°-20°	1413.1	9.0
20°-30°	2067.9	13.2
30°-40°	2685.5	17.2
40°-50°	3279.4	21.0
50°-60°	2888.0	18.5
60°-70°	1505.0	9.6
70°-80°	645.4	4.1
80°-90°	309.9	2.0
90°-100°	145.6	0.9
100°-110°	90.5	0.6
110°-120°	53.5	0.3
120°-130°	29.1	0.2
130°-140°	14.6	0.1
140°-150°	7.0	0.0
150°-160°	2.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3980.0	25.5
0°-40°	6665.6	42.6
0°-60°	12832.9	82.1
0°-90°	15293.2	97.8
90°-120°	289.7	1.9
90°-150°	340.4	2.2
90°-180°	343.0	2.2
0°-180°	15636.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5222	5222	5222	5222	5222	
5°	5174	5213	5241	5288	5282	491
15°	4895	5033	5081	5043	5002	1378
25°	4338	4570	4492	4408	4412	1991
35°	3521	3893	4088	4767	5072	2195
45°	2592	3262	4458	5398	5511	1999
55°	1726	2857	4152	3640	3236	1549
65°	990	1980	1901	1057	909	980
75°	399	926	611	418	397	435
85°	84	330	311	304	308	94
90°	1	119	205	234	240	6
95°	2	70	163	192	197	2
105°	4	39	106	127	130	5
115°	7	22	65	80	82	7
125°	8	11	38	50	51	7
135°	7	7	18	30	32	5
145°	9	7	8	15	17	5
155°	9	9	7	7	7	3
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P829945

CATALOG NUMBER: OHBL-18HE-W-UNV-L940-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5222.1	5222.1	5222.1	5222.1	5222.1
2.5°	5199.6	5222.1	5223.3	5254.8	5251.4
5°	5173.7	5213.1	5241.3	5287.5	5281.9
7.5°	5130.9	5192.8	5242.4	5293.1	5288.6
10°	5070.0	5154.5	5219.9	5261.6	5248.1
12.5°	4991.2	5102.7	5166.9	5175.9	5150.0
15°	4895.4	5032.9	5081.3	5043.0	5002.4
17.5°	4787.2	4948.4	4965.3	4881.9	4831.2
20°	4652.0	4835.7	4818.8	4703.9	4647.5
22.5°	4502.2	4711.8	4657.7	4537.1	4483.0
25°	4337.7	4569.8	4492.1	4407.6	4412.1
27.5°	4145.0	4408.7	4333.2	4371.5	4443.6
30°	3949.0	4239.7	4193.5	4416.6	4558.5
32.5°	3733.8	4066.2	4107.9	4548.4	4780.5
35°	3520.9	3892.7	4087.6	4767.0	5072.3
37.5°	3285.4	3716.9	4120.3	5019.3	5339.3
40°	3056.7	3545.6	4194.6	5245.8	5516.2
42.5°	2823.4	3392.4	4319.7	5379.9	5590.6
45°	2592.5	3261.7	4458.3	5397.9	5510.6
47.5°	2361.5	3151.3	4554.0	5254.8	5203.0
50°	2138.4	3053.3	4560.8	4911.2	4699.4
52.5°	1930.0	2963.2	4436.8	4363.6	4034.6
55°	1726.1	2857.2	4151.8	3640.3	3235.8
57.5°	1540.2	2710.8	3712.4	2862.9	2421.2
60°	1343.0	2512.5	3144.5	2094.5	1746.3
62.5°	1161.6	2265.7	2508.0	1457.9	1255.1
65°	990.3	1979.6	1900.7	1056.8	909.2
67.5°	809.0	1683.3	1402.7	770.6	676.0
70°	667.0	1408.3	1044.4	599.4	544.2
72.5°	521.7	1147.0	780.8	486.7	456.3
75°	398.8	926.1	610.7	418.0	396.6
77.5°	294.1	732.3	491.2	369.5	349.3
80°	206.2	576.9	411.2	330.1	322.2
82.5°	138.6	446.2	350.4	314.3	315.5
85°	84.5	330.1	311.0	304.2	307.6
87.5°	40.6	234.3	267.0	277.2	280.5
90°	1.1	119.4	205.1	234.3	240.0
92.5°	0.0	91.3	180.3	209.6	215.2
95°	2.3	69.9	163.4	191.5	197.2
97.5°	2.3	57.5	146.5	175.8	179.1
100°	3.4	49.6	130.7	158.9	162.2
102.5°	3.4	43.9	117.2	142.0	144.2
105°	4.5	39.4	105.9	127.3	129.6



TEST NUMBER: P829945

CATALOG NUMBER: OHBL-18HE-W-UNV-L940-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	6.8	27.0	74.4	90.1	92.4
115°	6.8	22.5	65.3	80.0	82.2
117.5°	7.9	20.3	57.5	71.0	72.1
120°	7.9	16.9	49.6	63.1	64.2
122.5°	7.9	13.5	43.9	56.3	57.5
125°	7.9	11.3	38.3	49.6	50.7
127.5°	6.8	7.9	32.7	43.9	45.1
130°	6.8	6.8	27.0	38.3	40.6
132.5°	6.8	6.8	22.5	33.8	36.1
135°	6.8	6.8	18.0	30.4	31.5
137.5°	6.8	6.8	14.6	25.9	28.2
140°	6.8	6.8	11.3	22.5	23.7
142.5°	7.9	6.8	10.1	19.2	20.3
145°	9.0	6.8	7.9	14.6	16.9
147.5°	9.0	7.9	7.9	12.4	13.5
150°	9.0	9.0	6.8	9.0	11.3
152.5°	9.0	9.0	6.8	6.8	9.0
155°	9.0	9.0	6.8	6.8	6.8
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°	5.6	34.9	94.6	113.8	<i>116.0</i>
110°	5.6	30.4	83.4	101.4	<i>103.7</i>



(END OF REPORT)