

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: P829072

Luminaire Tested: **OHB-18HE-W-UNV-L735-CD**

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P829072
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: OHB-18HE-W-UNV-L735-CD
Description: 18000 LUMEN OHB HE LED LUMINAIRE WITH 70CRI, 3500K LEDS AND WIDE LENS
Light Source: -
Ballast/Driver: -

Summary

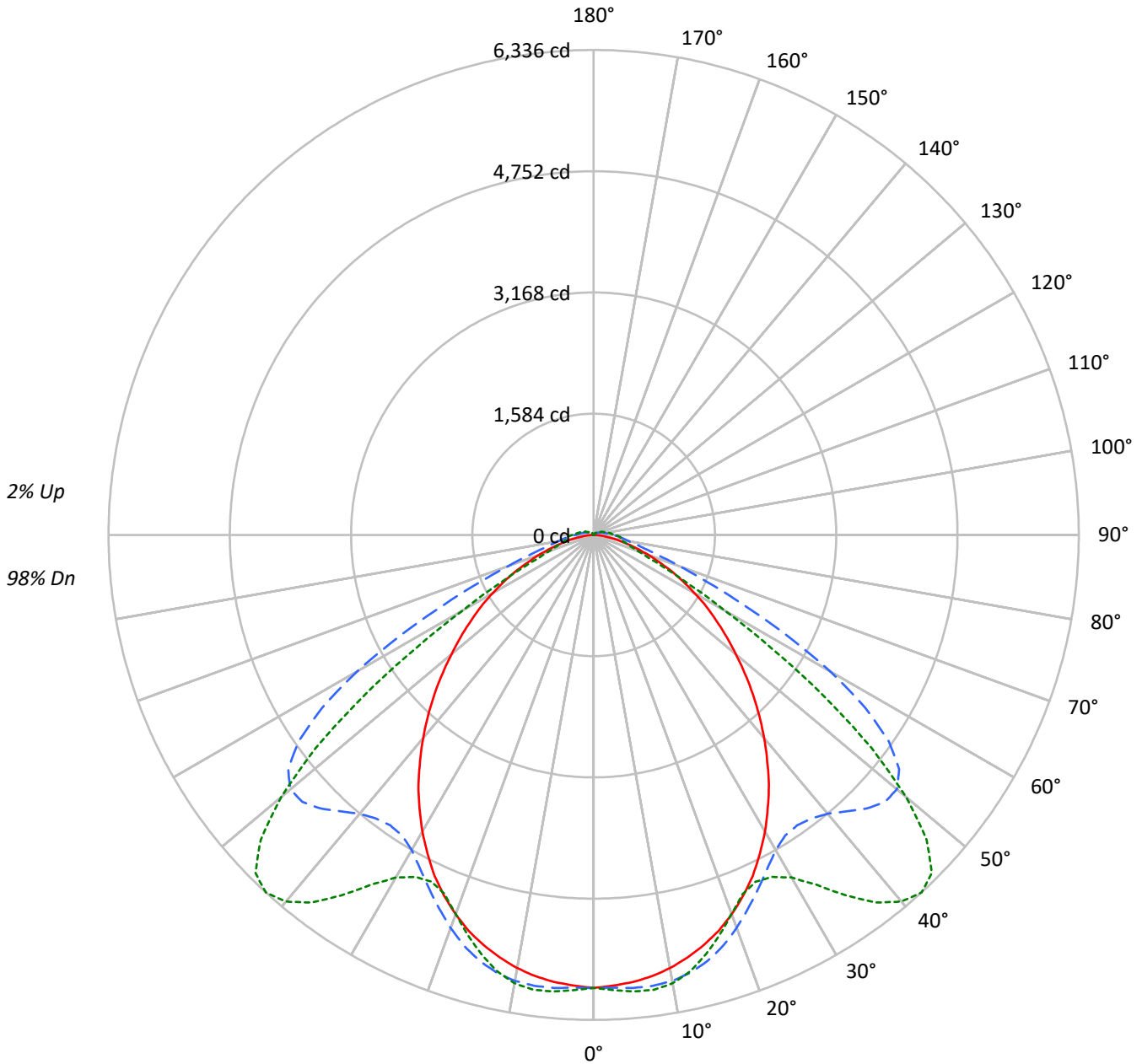
Lumens per Lamp: N/A
Luminaire Lumens: 17722.0 lumens
Efficiency: N/A
Efficacy: 168.8 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 1.93' x H: 0.17')
CIE Type: Direct

Input Watts (W): 105
Input Voltage (V): NR
Input Current (A_{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	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°	19772	19772	19772
5°	19516	19693	19900
10°	19200	19613	19827
15°	18755	19239	19096
20°	18174	18528	18068
25°	17421	17680	17610
30°	16446	17038	18841
35°	15347	17298	21910
40°	14088	18669	25153
45°	12779	21094	26823
50°	11422	23220	24732
55°	10144	23068	18690
60°	8848	19389	11271
65°	7488	13278	6707
70°	5970	8490	4726
75°	4415	5989	4225
80°	3019	5133	4483
85°	1849	5391	6234



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	565.6	3.2
10°-20°	1601.6	9.0
20°-30°	2343.7	13.2
30°-40°	3043.8	17.2
40°-50°	3716.9	21.0
50°-60°	3273.3	18.5
60°-70°	1705.7	9.6
70°-80°	731.5	4.1
80°-90°	351.3	2.0
90°-100°	165.0	0.9
100°-110°	102.6	0.6
110°-120°	60.7	0.3
120°-130°	33.0	0.2
130°-140°	16.6	0.1
140°-150°	8.0	0.0
150°-160°	2.8	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	4511.0	25.5
0°-40°	7554.8	42.6
0°-60°	14545.0	82.1
0°-90°	17333.5	97.8
90°-120°	328.3	1.9
90°-150°	385.8	2.2
90°-180°	389.0	2.2
0°-180°	17722.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5919	5919	5919	5919	5919	
5°	5864	5909	5940	5993	5986	556
15°	5548	5704	5759	5716	5670	1562
25°	4916	5180	5091	4996	5001	2256
35°	3991	4412	4633	5403	5749	2487
45°	2938	3697	5053	6118	6246	2266
55°	1956	3238	4706	4126	3668	1756
65°	1122	2244	2154	1198	1030	1111
75°	452	1050	692	474	450	493
85°	96	374	352	345	349	107
90°	1	135	232	266	272	7
95°	3	79	185	217	224	2
105°	5	45	120	144	147	5
115°	8	26	74	91	93	8
125°	9	13	43	56	58	8
135°	8	8	20	34	36	6
145°	10	8	9	17	19	6
155°	10	10	8	8	8	3
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CATALOG NUMBER: OHB-18HE-W-UNV-L735-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5918.8	5918.8	5918.8	5918.8	5918.8
2.5°	5893.3	5918.8	5920.1	5955.9	5952.0
5°	5863.9	5908.6	5940.5	5992.9	5986.5
7.5°	5815.4	5885.6	5941.8	5999.3	5994.2
10°	5746.4	5842.2	5916.3	5963.5	5948.2
12.5°	5657.0	5783.5	5856.3	5866.5	5837.1
15°	5548.5	5704.3	5759.2	5715.8	5669.8
17.5°	5425.9	5608.5	5627.7	5533.2	5475.7
20°	5272.7	5480.8	5461.7	5331.4	5267.6
22.5°	5102.8	5340.4	5279.1	5142.4	5081.1
25°	4916.4	5179.5	5091.3	4995.6	5000.7
27.5°	4698.0	4996.8	4911.3	4954.7	5036.4
30°	4475.8	4805.3	4752.9	5005.8	5166.7
32.5°	4231.9	4608.6	4655.9	5155.2	5418.2
35°	3990.6	4412.0	4632.9	5402.9	5749.0
37.5°	3723.7	4212.8	4669.9	5689.0	6051.6
40°	3464.5	4018.7	4754.2	5945.6	6252.1
42.5°	3200.1	3845.0	4896.0	6097.6	6336.4
45°	2938.3	3696.9	5053.0	6118.0	6245.7
47.5°	2676.6	3571.7	5161.6	5955.9	5897.1
50°	2423.7	3460.6	5169.2	5566.4	5326.3
52.5°	2187.5	3358.5	5028.8	4945.8	4572.9
55°	1956.3	3238.4	4705.7	4125.9	3667.5
57.5°	1745.6	3072.4	4207.7	3244.8	2744.2
60°	1522.2	2847.7	3564.1	2373.9	1979.3
62.5°	1316.6	2568.0	2842.6	1652.4	1422.6
65°	1122.5	2243.7	2154.3	1197.8	1030.5
67.5°	916.9	1907.8	1589.8	873.5	766.2
70°	756.0	1596.2	1183.8	679.4	616.8
72.5°	591.2	1300.0	885.0	551.7	517.2
75°	452.1	1049.7	692.1	473.8	449.5
77.5°	333.3	830.0	556.8	418.9	395.9
80°	233.7	653.8	466.1	374.2	365.2
82.5°	157.1	505.7	397.1	356.3	357.6
85°	95.8	374.2	352.4	344.8	348.6
87.5°	46.0	265.6	302.6	314.1	318.0
90°	1.3	135.4	232.4	265.6	272.0
92.5°	0.0	103.4	204.3	237.5	243.9
95°	2.6	79.2	185.2	217.1	223.5
97.5°	2.6	65.1	166.0	199.2	203.0
100°	3.8	56.2	148.1	180.1	183.9
102.5°	3.8	49.8	132.8	160.9	163.5
105°	5.1	44.7	120.0	144.3	146.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	7.7	30.6	84.3	102.2	104.7
115°	7.7	25.5	74.1	90.7	93.2
117.5°	8.9	23.0	65.1	80.5	81.7
120°	8.9	19.2	56.2	71.5	72.8
122.5°	8.9	15.3	49.8	63.8	65.1
125°	8.9	12.8	43.4	56.2	57.5
127.5°	7.7	8.9	37.0	49.8	51.1
130°	7.7	7.7	30.6	43.4	46.0
132.5°	7.7	7.7	25.5	38.3	40.9
135°	7.7	7.7	20.4	34.5	35.8
137.5°	7.7	7.7	16.6	29.4	31.9
140°	7.7	7.7	12.8	25.5	26.8
142.5°	8.9	7.7	11.5	21.7	23.0
145°	10.2	7.7	8.9	16.6	19.2
147.5°	10.2	8.9	8.9	14.0	15.3
150°	10.2	10.2	7.7	10.2	12.8
152.5°	10.2	10.2	7.7	7.7	10.2
155°	10.2	10.2	7.7	7.7	7.7
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°	6.4	39.6	107.3	129.0	131.5
110°	6.4	34.5	94.5	114.9	117.5



(END OF REPORT)