

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: P829889

Luminaire Tested: **OHBL-18HE-MCL-UNV-L740-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829889
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-200-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-18HE-MCL-UNV-L740-CD
Description: 18000 LUMEN OHBL HE LED LUMINAIRE WITH 70CRI, 4000K LEDS AND MEDIUM CLEAR LENS
Light Source: -
Ballast/Driver: -

Summary

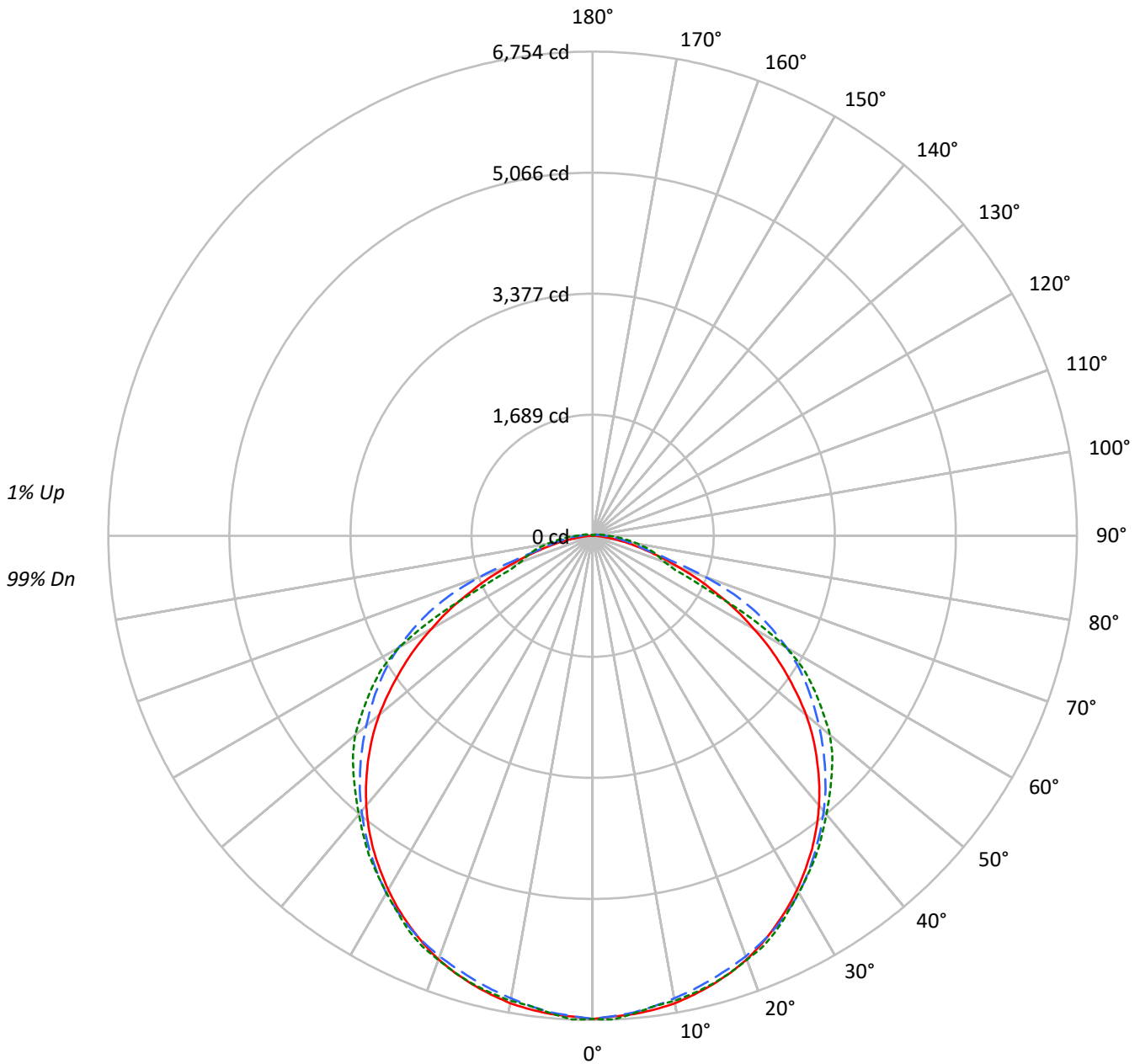
Lumens per Lamp: N/A
Luminaire Lumens: 19049.9 lumens
Efficiency: N/A
Efficacy: 185.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

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

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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	106	106	106	101	101	101					99															
1	109	104	100	96	106	102	98	95	97	94	91	93	91	88	90	87	86					83															
2	99	91	84	79	96	89	83	78	85	80	76	82	78	74	79	75	72					70															
3	91	80	72	66	88	79	71	65	75	69	64	72	67	63	70	65	61					59															
4	83	71	62	56	81	70	62	55	67	60	54	65	59	54	62	57	53					51															
5	76	64	55	48	74	62	54	48	60	53	47	58	52	46	56	50	46					44															
6	70	57	48	42	68	56	48	42	54	47	41	52	46	41	51	45	40					38															
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36					34															
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	42	36	32					30															
9	57	43	35	30	55	43	35	29	41	34	29	40	34	29	39	33	29					27															
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	36	30	26					24															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11512	11512	11512
5°	11436	11339	11361
10°	11394	11162	11228
15°	11322	11029	11145
20°	11250	10943	11039
25°	11114	10856	10934
30°	10966	10722	10719
35°	10790	10513	10596
40°	10561	10297	10432
45°	10242	10047	10353
50°	9812	9763	10259
55°	9127	9482	9862
60°	8230	9074	9102
65°	7060	8326	5756
70°	5686	6487	4161
75°	4263	3839	4205
80°	2967	3177	3988
85°	1689	2885	3689



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	635.5	3.3
10°-20°	1822.3	9.6
20°-30°	2783.3	14.6
30°-40°	3377.1	17.7
40°-50°	3539.5	18.6
50°-60°	3207.3	16.8
60°-70°	2150.4	11.3
70°-80°	965.6	5.1
80°-90°	350.4	1.8
90°-100°	105.5	0.6
100°-110°	49.8	0.3
110°-120°	24.9	0.1
120°-130°	13.8	0.1
130°-140°	9.5	0.0
140°-150°	6.3	0.0
150°-160°	4.7	0.0
160°-170°	3.0	0.0
170°-180°	1.0	0.0
0°-30°	5241.1	27.5
0°-40°	8618.2	45.2
0°-60°	15365.1	80.7
0°-90°	18831.5	98.9
90°-120°	180.2	0.9
90°-150°	209.7	1.1
90°-180°	218.0	1.1
0°-180°	19049.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6740	6740	6740	6740	6740	
5°	6696	6719	6673	6693	6684	637
15°	6479	6453	6408	6464	6472	1829
25°	6019	5992	6034	6090	6072	2774
35°	5335	5347	5402	5459	5438	3334
45°	4427	4499	4583	4700	4715	3411
55°	3258	3415	3648	3794	3785	2908
65°	1912	2211	2510	2119	1730	1905
75°	752	1092	803	822	875	822
85°	130	248	319	385	404	158
90°	1	83	165	207	216	8
95°	1	52	113	137	141	1
105°	4	22	56	67	70	4
115°	8	12	28	36	38	7
125°	7	8	18	20	21	7
135°	9	10	11	16	17	7
145°	9	10	10	11	12	6
155°	10	11	11	11	10	4
165°	11	11	11	11	11	3
175°	11	11	10	9	9	1
180°	10	10	10	10	10	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6739.9	6739.9	6739.9	6739.9	6739.9
2.5°	6712.6	6740.9	6705.8	6743.8	6753.5
5°	6696.1	6719.4	6672.7	6693.1	6684.4
7.5°	6665.8	6673.6	6618.1	6634.7	6617.1
10°	6621.0	6617.1	6551.8	6584.0	6587.9
12.5°	6554.7	6543.0	6484.6	6533.3	6534.3
15°	6478.7	6453.4	6407.6	6464.1	6471.9
17.5°	6391.0	6357.9	6327.7	6400.8	6389.1
20°	6288.7	6249.7	6243.9	6323.8	6294.5
22.5°	6162.0	6131.8	6145.4	6221.5	6202.9
25°	6018.7	5992.4	6034.3	6089.9	6072.3
27.5°	5867.7	5852.1	5899.9	5942.7	5908.6
30°	5702.0	5693.3	5756.6	5791.7	5748.8
32.5°	5521.7	5524.7	5585.1	5632.8	5592.9
35°	5334.6	5347.3	5401.9	5459.4	5437.9
37.5°	5129.0	5157.3	5211.8	5277.1	5254.7
40°	4911.7	4952.6	5013.0	5092.0	5071.5
42.5°	4676.8	4728.5	4806.4	4894.1	4892.2
45°	4427.3	4499.4	4583.3	4700.2	4714.8
47.5°	4168.1	4249.0	4355.2	4511.1	4533.6
50°	3886.5	3987.8	4120.3	4307.5	4321.1
52.5°	3572.7	3711.0	3886.5	4065.8	4049.2
55°	3257.9	3414.8	3647.7	3793.9	3785.1
57.5°	2944.1	3120.5	3403.1	3507.4	3506.4
60°	2593.2	2816.4	3125.3	3204.3	3126.3
62.5°	2268.7	2508.5	2829.1	2771.6	2504.6
65°	1912.0	2211.2	2510.4	2118.6	1729.8
67.5°	1595.3	1907.2	2132.3	1451.1	1242.5
70°	1276.6	1620.7	1662.6	1076.9	1062.2
72.5°	994.0	1360.5	1147.0	921.9	968.7
75°	752.3	1091.5	803.0	821.5	875.1
77.5°	548.7	838.1	624.7	720.2	764.0
80°	377.1	593.5	509.7	605.2	635.4
82.5°	236.8	391.8	408.3	487.3	518.5
85°	129.6	248.5	318.7	384.9	403.5
87.5°	53.6	150.1	243.6	297.2	312.8
90°	1.0	82.8	164.7	206.6	216.3
92.5°	1.0	63.3	134.5	166.6	173.5
95°	1.0	51.7	113.0	137.4	141.3
97.5°	1.9	40.9	94.5	114.0	117.9
100°	2.9	34.1	78.9	95.5	98.4
102.5°	3.9	27.3	66.3	79.9	82.8
105°	3.9	22.4	55.5	67.2	70.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	6.8	13.6	33.1	41.9	43.9
115°	7.8	11.7	28.3	36.1	38.0
117.5°	7.8	9.7	24.4	30.2	32.2
120°	7.8	8.8	21.4	26.3	27.3
122.5°	7.8	7.8	18.5	23.4	24.4
125°	6.8	7.8	17.5	20.5	21.4
127.5°	7.8	7.8	15.6	18.5	19.5
130°	7.8	8.8	13.6	17.5	17.5
132.5°	8.8	9.7	12.7	16.6	16.6
135°	8.8	9.7	10.7	15.6	16.6
137.5°	9.7	9.7	9.7	14.6	15.6
140°	9.7	9.7	8.8	12.7	13.6
142.5°	8.8	9.7	8.8	11.7	12.7
145°	8.8	9.7	9.7	10.7	11.7
147.5°	9.7	9.7	9.7	9.7	10.7
150°	9.7	9.7	9.7	9.7	9.7
152.5°	9.7	9.7	9.7	9.7	9.7
155°	9.7	10.7	10.7	10.7	9.7
157.5°	9.7	10.7	10.7	10.7	10.7
160°	9.7	10.7	10.7	10.7	10.7
162.5°	10.7	10.7	10.7	10.7	10.7
165°	10.7	10.7	10.7	10.7	10.7
167.5°	10.7	11.7	10.7	10.7	10.7
170°	10.7	10.7	10.7	9.7	9.7
172.5°	10.7	10.7	10.7	9.7	9.7
175°	10.7	10.7	9.7	8.8	8.8
177.5°	11.7	10.7	9.7	8.8	7.8
180°	9.7	9.7	9.7	9.7	9.7



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







107.5°	4.9	18.5	47.8	57.5	59.4
110°	5.8	15.6	40.0	48.7	50.7



(END OF REPORT)