

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: P829892

Luminaire Tested: **OHBL-18HE-MCL-UNV-L835-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829892
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-L835-CD
Description: 18000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 3500K LEDS AND MEDIUM CLEAR LENS
Light Source: -
Ballast/Driver: -

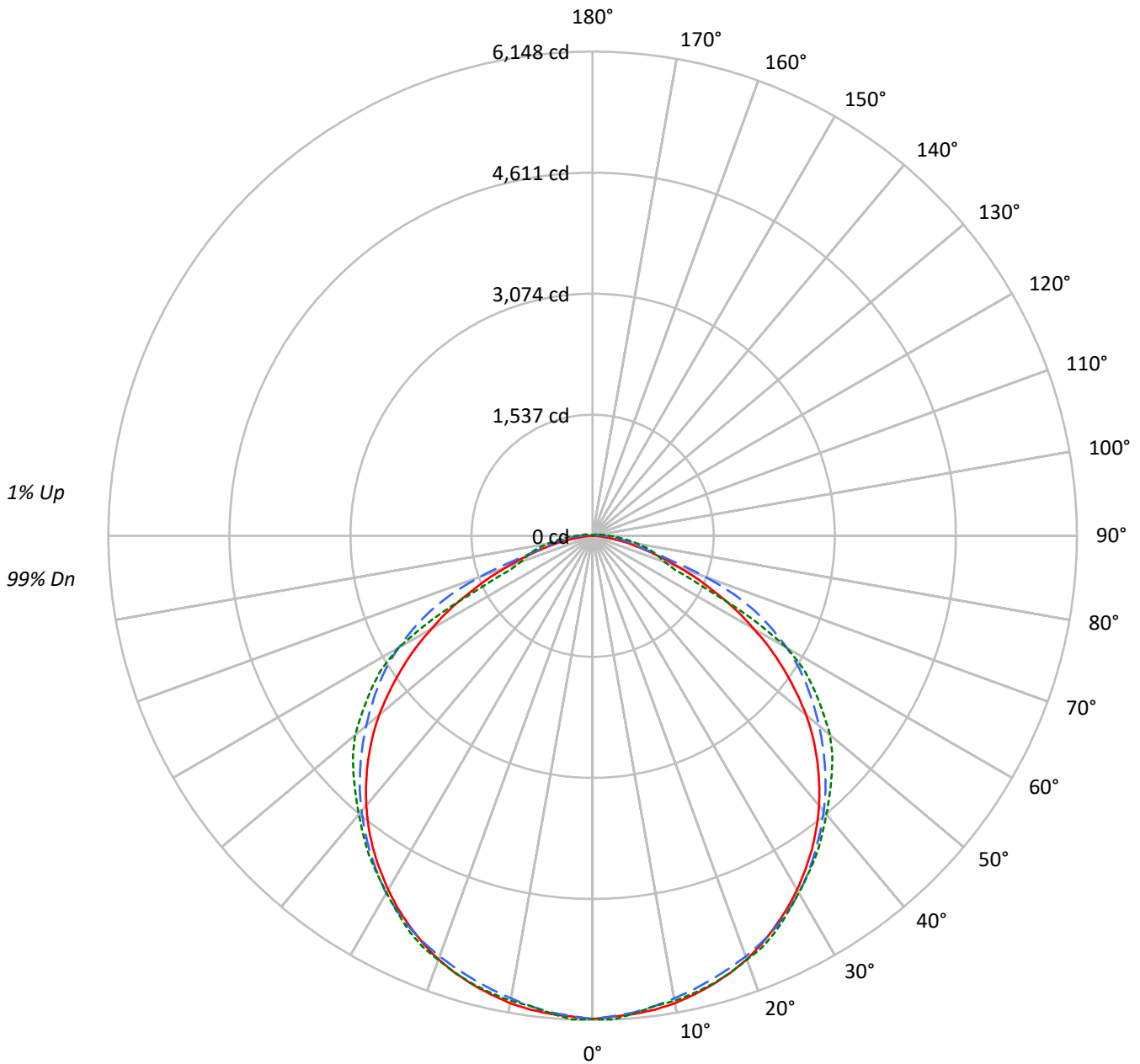
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17341.1 lumens
Efficiency: N/A
Efficacy: 168.4 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

TEST NUMBER: P829892
CATALOG NUMBER: OHBL-18HE-MCL-UNV-L835-CD

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°	10479	10479	10479
5°	10410	10322	10342
10°	10372	10161	10220
15°	10306	10040	10145
20°	10241	9961	10049
25°	10117	9882	9953
30°	9983	9761	9757
35°	9822	9570	9646
40°	9613	9373	9496
45°	9324	9146	9424
50°	8931	8887	9339
55°	8308	8632	8978
60°	7492	8261	8286
65°	6427	7579	5240
70°	5176	5905	3788
75°	3881	3495	3828
80°	2701	2892	3630
85°	1538	2626	3358



TEST NUMBER: P829892

CATALOG NUMBER: OHBL-18HE-MCL-UNV-L835-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	578.5	3.3
10°-20°	1658.9	9.6
20°-30°	2533.6	14.6
30°-40°	3074.1	17.7
40°-50°	3222.0	18.6
50°-60°	2919.6	16.8
60°-70°	1957.5	11.3
70°-80°	879.0	5.1
80°-90°	319.0	1.8
90°-100°	96.0	0.6
100°-110°	45.3	0.3
110°-120°	22.7	0.1
120°-130°	12.5	0.1
130°-140°	8.6	0.0
140°-150°	5.8	0.0
150°-160°	4.3	0.0
160°-170°	2.8	0.0
170°-180°	0.9	0.0
0°-30°	4771.0	27.5
0°-40°	7845.1	45.2
0°-60°	13986.7	80.7
0°-90°	17142.1	98.9
90°-120°	164.0	0.9
90°-150°	191.0	1.1
90°-180°	199.0	1.1
0°-180°	17341.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6135	6135	6135	6135	6135	
5°	6095	6117	6074	6093	6085	580
15°	5898	5874	5833	5884	5891	1665
25°	5479	5455	5493	5544	5528	2525
35°	4856	4868	4917	4970	4950	3035
45°	4030	4096	4172	4278	4292	3105
55°	2966	3108	3320	3454	3446	2647
65°	1740	2013	2285	1929	1575	1734
75°	685	994	731	748	797	748
85°	118	226	290	350	367	144
90°	1	75	150	188	197	7
95°	1	47	103	125	129	1
105°	4	20	51	61	64	4
115°	7	11	26	33	35	7
125°	6	7	16	19	20	6
135°	8	9	10	14	15	6
145°	8	9	9	10	11	5
155°	9	10	10	10	9	4
165°	10	10	10	10	10	3
175°	10	10	9	8	8	1
180°	9	9	9	9	9	



TEST NUMBER: P829892

CATALOG NUMBER: OHBL-18HE-MCL-UNV-L835-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6135.3	6135.3	6135.3	6135.3	6135.3
2.5°	6110.4	6136.1	6104.2	6138.8	6147.7
5°	6095.3	6116.6	6074.0	6092.7	6084.7
7.5°	6067.8	6074.9	6024.4	6039.5	6023.5
10°	6027.0	6023.5	5964.0	5993.3	5996.9
12.5°	5966.7	5956.1	5902.8	5947.2	5948.1
15°	5897.5	5874.4	5832.8	5884.2	5891.3
17.5°	5817.7	5787.5	5760.0	5826.5	5815.9
20°	5724.5	5689.0	5683.7	5756.5	5729.9
22.5°	5609.2	5581.7	5594.1	5663.3	5646.5
25°	5478.8	5454.8	5493.0	5543.6	5527.6
27.5°	5341.3	5327.1	5370.6	5409.6	5378.6
30°	5190.5	5182.5	5240.2	5272.1	5233.1
32.5°	5026.4	5029.0	5084.0	5127.5	5091.1
35°	4856.0	4867.6	4917.3	4969.6	4950.1
37.5°	4668.9	4694.6	4744.3	4803.7	4783.3
40°	4471.0	4508.3	4563.3	4635.2	4616.5
42.5°	4257.2	4304.3	4375.2	4455.1	4453.3
45°	4030.1	4095.8	4172.1	4278.5	4291.8
47.5°	3794.2	3867.8	3964.5	4106.4	4126.8
50°	3537.8	3630.1	3750.7	3921.0	3933.5
52.5°	3252.1	3378.1	3537.8	3701.0	3685.9
55°	2965.6	3108.4	3320.5	3453.5	3445.5
57.5°	2680.0	2840.5	3097.8	3192.7	3191.8
60°	2360.6	2563.8	2845.0	2916.8	2845.9
62.5°	2065.2	2283.4	2575.3	2522.9	2279.9
65°	1740.5	2012.9	2285.2	1928.6	1574.6
67.5°	1452.2	1736.1	1941.0	1320.9	1131.1
70°	1162.1	1475.3	1513.4	980.3	967.0
72.5°	904.9	1238.4	1044.1	839.2	881.8
75°	684.8	993.6	731.0	747.8	796.6
77.5°	499.4	762.9	568.6	655.6	695.5
80°	343.3	540.3	464.0	550.9	578.4
82.5°	215.6	356.6	371.7	443.6	471.9
85°	118.0	226.2	290.1	350.4	367.3
87.5°	48.8	136.6	221.8	270.6	284.8
90°	0.9	75.4	149.9	188.1	196.9
92.5°	0.9	57.7	122.4	151.7	157.9
95°	0.9	47.0	102.9	125.1	128.6
97.5°	1.8	37.3	86.0	103.8	107.3
100°	2.7	31.0	71.9	86.9	89.6
102.5°	3.5	24.8	60.3	72.7	75.4
105°	3.5	20.4	50.6	61.2	63.9



TEST NUMBER: P829892

CATALOG NUMBER: OHBL-18HE-MCL-UNV-L835-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	6.2	12.4	30.2	38.1	39.9
115°	7.1	10.6	25.7	32.8	34.6
117.5°	7.1	8.9	22.2	27.5	29.3
120°	7.1	8.0	19.5	24.0	24.8
122.5°	7.1	7.1	16.9	21.3	22.2
125°	6.2	7.1	16.0	18.6	19.5
127.5°	7.1	7.1	14.2	16.9	17.7
130°	7.1	8.0	12.4	16.0	16.0
132.5°	8.0	8.9	11.5	15.1	15.1
135°	8.0	8.9	9.8	14.2	15.1
137.5°	8.9	8.9	8.9	13.3	14.2
140°	8.9	8.9	8.0	11.5	12.4
142.5°	8.0	8.9	8.0	10.6	11.5
145°	8.0	8.9	8.9	9.8	10.6
147.5°	8.9	8.9	8.9	8.9	9.8
150°	8.9	8.9	8.9	8.9	8.9
152.5°	8.9	8.9	8.9	8.9	8.9
155°	8.9	9.8	9.8	9.8	8.9
157.5°	8.9	9.8	9.8	9.8	9.8
160°	8.9	9.8	9.8	9.8	9.8
162.5°	9.8	9.8	9.8	9.8	9.8
165°	9.8	9.8	9.8	9.8	9.8
167.5°	9.8	10.6	9.8	9.8	9.8
170°	9.8	9.8	9.8	8.9	8.9
172.5°	9.8	9.8	9.8	8.9	8.9
175°	9.8	9.8	8.9	8.0	8.0
177.5°	10.6	9.8	8.9	8.0	7.1
180°	8.9	8.9	8.9	8.9	8.9



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	4.4	16.9	43.5	52.3	54.1
110°	5.3	14.2	36.4	44.4	46.1



(END OF REPORT)