

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: P830480

Luminaire Tested: **OHBL-48HE-MFL-UNV-L835-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830480
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-48HE-MFL-UNV-L835-CD
Description: 48000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 3500K LEDS AND MEDIUM FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

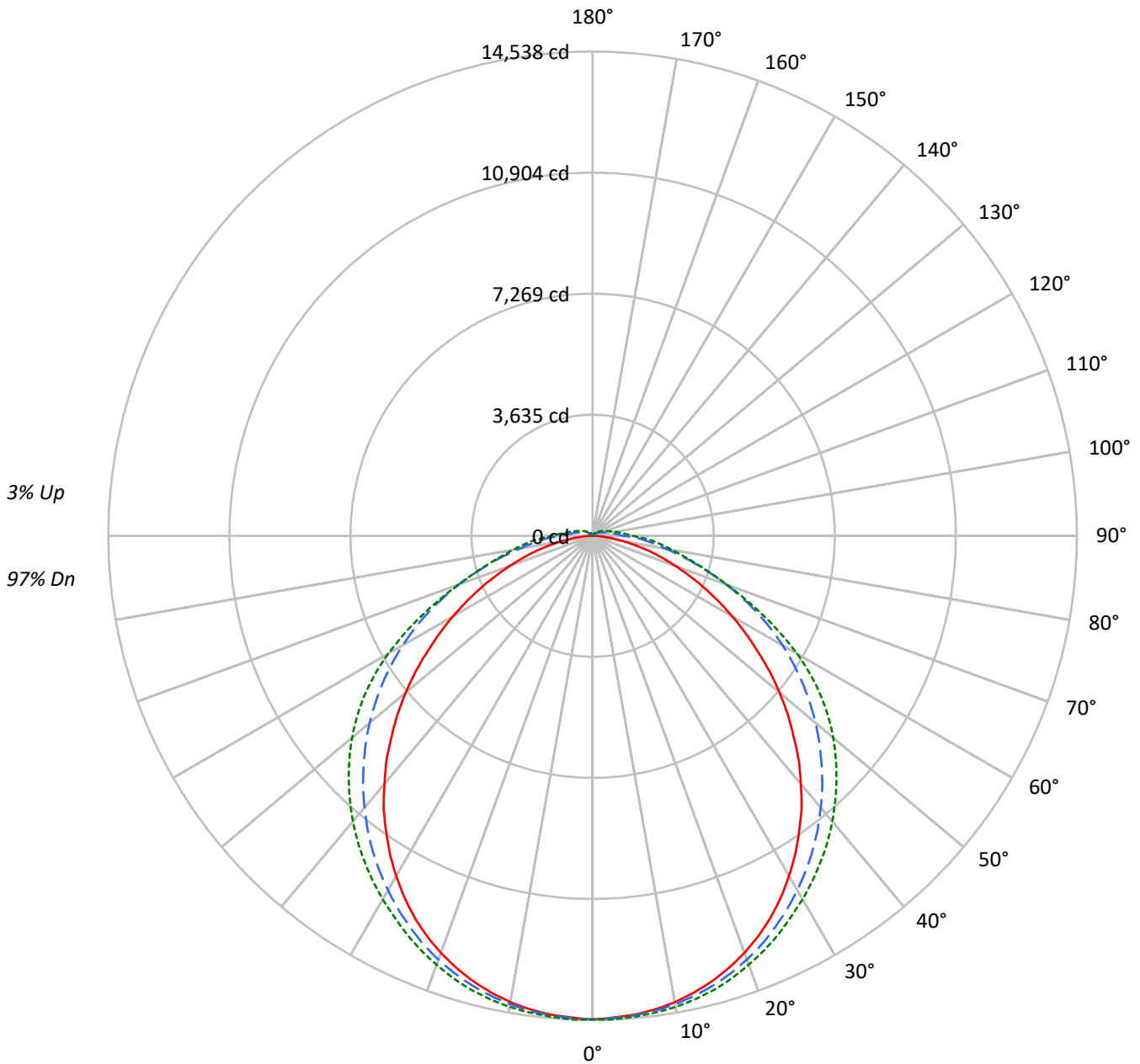
Lumens per Lamp: N/A
Luminaire Lumens: 43466.0 lumens
Efficiency: N/A
Efficacy: 163.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 266
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	50	30	10	50	30	10	50	30	10	0															
RCR	0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	99	99	99	99	99	99	99	99	97																
	1	107	102	98	94	104	100	96	92	95	91	88	90	88	85	86	84	82	82	82	82	82	82	82	82	82	82	82	80																
	2	98	89	82	76	95	87	80	75	83	77	73	79	74	71	75	72	68	68	68	68	68	68	68	68	68	68	68	66																
	3	89	78	70	63	86	76	69	62	73	66	61	70	64	59	67	62	58	58	58	58	58	58	58	58	58	58	58	56																
	4	81	69	60	53	79	68	59	53	65	57	52	62	56	51	59	54	50	50	50	50	50	50	50	50	50	50	50	47																
	5	75	62	53	46	72	60	52	46	58	50	45	56	49	44	53	48	43	43	43	43	43	43	43	43	43	43	43	41																
	6	69	56	47	40	67	54	46	40	52	45	39	50	44	39	48	43	38	38	38	38	38	38	38	38	38	38	38	36																
	7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	44	38	34	34	34	34	34	34	34	34	34	34	34	32																
	8	60	46	37	31	58	45	37	31	43	36	31	42	35	31	41	35	30	30	30	30	30	30	30	30	30	30	30	28																
	9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	37	32	27	27	27	27	27	27	27	27	27	27	27	25																
	10	52	39	31	26	51	38	31	26	37	30	25	36	29	25	35	29	25	25	25	25	25	25	25	25	25	25	25	23																

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	22968	22968	22968
5°	22821	22751	22820
10°	22661	22550	22701
15°	22408	22310	22544
20°	22072	22017	22314
25°	21623	21650	22082
30°	21002	21253	21848
35°	20250	20831	21647
40°	19346	20342	21448
45°	18281	19811	21194
50°	17116	19275	20887
55°	15683	18618	20367
60°	14216	17845	19328
65°	12614	16856	17622
70°	10878	15597	15774
75°	9120	14141	14526
80°	6914	13089	14411
85°	4375	13605	16104



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1376.2	3.2
10°-20°	3948.0	9.1
20°-30°	5970.7	13.7
30°-40°	7167.9	16.5
40°-50°	7403.3	17.0
50°-60°	6660.6	15.3
60°-70°	5017.3	11.5
70°-80°	3029.6	7.0
80°-90°	1481.7	3.4
90°-100°	623.7	1.4
100°-110°	356.0	0.8
110°-120°	209.0	0.5
120°-130°	118.2	0.3
130°-140°	62.2	0.1
140°-150°	30.3	0.1
150°-160°	11.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	11294.9	26.0
0°-40°	18462.8	42.5
0°-60°	32526.6	74.8
0°-90°	42055.3	96.8
90°-120°	1188.7	2.7
90°-150°	1399.4	3.2
90°-180°	1411.0	3.2
0°-180°	43466.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14523	14523	14523	14523	14523	
5°	14431	14470	14452	14509	14491	###
15°	13848	13916	13980	14097	14111	3904
25°	12647	12785	12966	13169	13201	5817
35°	10813	11065	11520	11868	11939	6759
45°	8534	8964	9714	10244	10354	6589
55°	6046	6672	7685	8264	8364	5421
65°	3690	4443	5438	5708	5644	3666
75°	1738	2495	3149	3231	3199	1854
85°	363	956	1578	1795	1827	419
90°	0	373	903	1137	1184	23
95°	18	252	675	860	892	15
105°	25	146	391	512	533	25
115°	28	82	242	324	338	29
125°	28	39	146	210	220	26
135°	25	32	75	128	142	20
145°	36	32	36	64	75	21
155°	36	39	36	32	36	11
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	14523.4	14523.4	14523.4	<i>14523.4</i>	14523.4
2.5°	<i>14480.7</i>	<i>14516.3</i>	<i>14494.9</i>	<i>14541.1</i>	<i>14537.6</i>
5°	14431.0	14470.1	14452.3	<i>14509.2</i>	14491.4
7.5°	14345.7	14388.3	14384.8	<i>14448.7</i>	14441.6
10°	14221.2	14267.5	14281.7	<i>14367.0</i>	14367.0
12.5°	14050.6	14111.1	14146.6	<i>14249.7</i>	14253.2
15°	13848.0	13915.6	13979.5	<i>14096.8</i>	14111.1
17.5°	13602.8	13688.1	13776.9	<i>13912.0</i>	13929.8
20°	13325.5	13421.5	13542.4	<i>13684.5</i>	13705.9
22.5°	13005.6	13119.4	13275.8	<i>13442.8</i>	13467.7
25°	12646.6	12785.3	12966.5	<i>13169.1</i>	13201.1
27.5°	12237.9	12397.8	12643.1	<i>12870.6</i>	12899.0
30°	11793.6	11982.0	12287.6	<i>12557.8</i>	12604.0
32.5°	11324.4	11541.2	11918.0	<i>12220.1</i>	12284.1
35°	10812.6	11064.9	11519.9	<i>11868.2</i>	11939.3
37.5°	10307.8	10585.1	11100.5	<i>11498.6</i>	11583.9
40°	9717.8	10062.6	10652.6	<i>11093.4</i>	11196.4
42.5°	9163.3	9536.5	10204.7	<i>10684.6</i>	10784.1
45°	8534.2	8964.3	9714.2	<i>10243.8</i>	10354.0
47.5°	7944.1	8409.8	9241.5	<i>9788.9</i>	9902.6
50°	7322.1	7833.9	8736.8	<i>9309.0</i>	9426.3
52.5°	6700.1	7251.0	8214.3	<i>8807.9</i>	8918.0
55°	6046.1	6671.7	7684.7	<i>8264.0</i>	8363.6
57.5°	5438.3	6099.4	7140.8	<i>7691.8</i>	7752.2
60°	4837.6	5523.6	6586.3	<i>7069.7</i>	7091.1
62.5°	4251.1	4972.6	6017.6	<i>6401.5</i>	6373.1
65°	3689.5	4443.0	5438.3	<i>5708.4</i>	5644.4
67.5°	3149.2	3927.6	4844.7	<i>5018.8</i>	4933.5
70°	2637.4	3426.5	4268.9	<i>4357.7</i>	4279.5
72.5°	2186.0	2950.2	3685.9	<i>3760.6</i>	3703.7
75°	1738.1	2495.2	3149.2	<i>3231.0</i>	3199.0
77.5°	1318.7	2054.5	2655.2	<i>2761.8</i>	2768.9
80°	949.0	1652.8	2225.1	<i>2392.1</i>	2413.5
82.5°	625.6	1283.1	1866.1	<i>2079.3</i>	2111.3
85°	362.6	956.1	1578.2	<i>1795.0</i>	1827.0
87.5°	156.4	689.6	1268.9	<i>1464.4</i>	1503.5
90°	0.0	373.2	902.8	<i>1137.4</i>	1183.6
92.5°	10.7	309.2	774.9	<i>988.1</i>	1027.2
95°	17.8	252.4	675.3	<i>860.2</i>	892.2
97.5°	21.3	213.3	586.5	<i>750.0</i>	782.0
100°	21.3	184.8	508.3	<i>657.6</i>	686.0
102.5°	21.3	163.5	444.3	<i>575.8</i>	600.7
105°	24.9	145.7	391.0	<i>511.8</i>	533.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	28.4	96.0	270.1	362.6	376.8
115°	28.4	81.8	241.7	323.5	337.7
117.5°	32.0	71.1	213.3	291.5	302.1
120°	32.0	60.4	188.4	259.5	273.7
122.5°	32.0	49.8	167.1	234.6	245.3
125°	28.4	39.1	145.7	209.7	220.4
127.5°	24.9	32.0	124.4	188.4	199.0
130°	24.9	28.4	106.6	167.1	177.7
132.5°	24.9	32.0	88.9	145.7	159.9
135°	24.9	32.0	74.6	128.0	142.2
137.5°	24.9	32.0	60.4	110.2	124.4
140°	28.4	32.0	49.8	92.4	106.6
142.5°	32.0	32.0	39.1	78.2	88.9
145°	35.5	32.0	35.5	64.0	74.6
147.5°	35.5	35.5	35.5	49.8	60.4
150°	35.5	39.1	35.5	39.1	49.8
152.5°	35.5	39.1	35.5	32.0	39.1
155°	35.5	39.1	35.5	32.0	35.5
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°	24.9	128.0	344.8	455.0	472.7
110°	24.9	113.7	305.7	405.2	423.0



(END OF REPORT)