

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: P830471

Luminaire Tested: **OHBL-48HE-MCL-UNV-L930-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830471
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-48HE-MCL-UNV-L930-CD
Description: 48000 LUMEN OHBL HE LED LUMINAIRE WITH 90CRI, 3000K LEDS AND MEDIUM CLEAR LENS
Light Source: -
Ballast/Driver: -

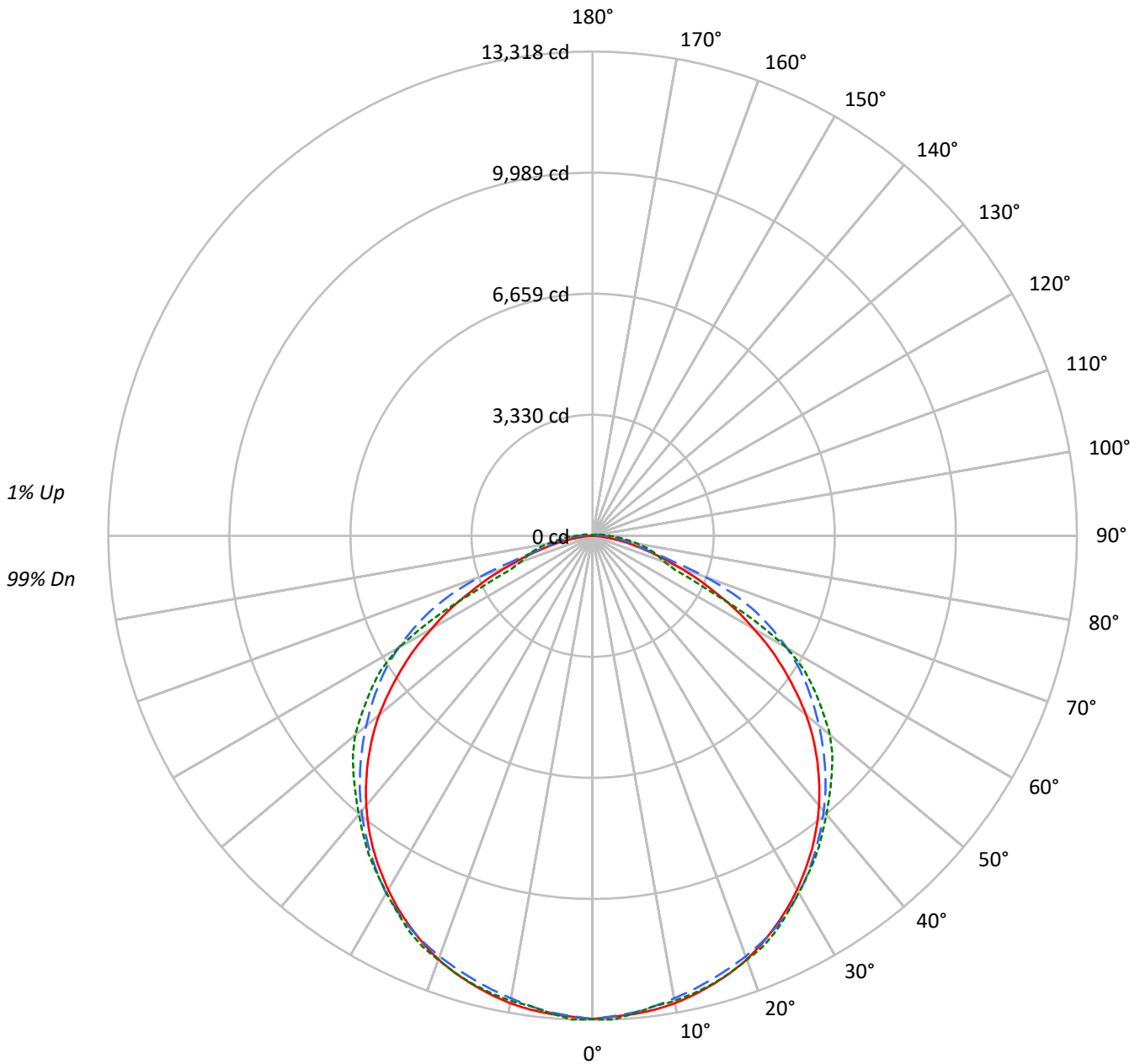
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37566.0 lumens
Efficiency: N/A
Efficacy: 141.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
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	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°	21019	21019	21019
5°	20882	20714	20757
10°	20805	20400	20527
15°	20673	20166	20389
20°	20541	20018	20209
25°	20293	19869	20030
30°	20024	19634	19651
35°	19701	19262	19442
40°	19283	18877	19158
45°	18702	18432	19032
50°	17915	17926	18881
55°	16664	17427	18176
60°	15027	16698	16804
65°	12891	15344	10650
70°	10383	11978	7721
75°	7785	7111	7836
80°	5418	5913	7482
85°	3084	5417	7013



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1253.2	3.3
10°-20°	3593.6	9.6
20°-30°	5488.6	14.6
30°-40°	6659.5	17.7
40°-50°	6979.8	18.6
50°-60°	6324.8	16.8
60°-70°	4240.5	11.3
70°-80°	1904.2	5.1
80°-90°	691.0	1.8
90°-100°	208.0	0.6
100°-110°	98.1	0.3
110°-120°	49.2	0.1
120°-130°	27.1	0.1
130°-140°	18.6	0.0
140°-150°	12.5	0.0
150°-160°	9.3	0.0
160°-170°	6.0	0.0
170°-180°	1.9	0.0
0°-30°	10335.4	27.5
0°-40°	16994.9	45.2
0°-60°	30299.5	80.7
0°-90°	37135.1	98.9
90°-120°	355.3	0.9
90°-150°	413.6	1.1
90°-180°	431.0	1.1
0°-180°	37566.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13291	13291	13291	13291	13291	
5°	13204	13250	13158	13199	13181	###
15°	12776	12726	12636	12747	12762	3607
25°	11869	11817	11900	12009	11974	5471
35°	10520	10545	10652	10766	10723	6575
45°	8730	8873	9038	9269	9298	6726
55°	6424	6734	7193	7481	7464	5735
65°	3770	4360	4950	4178	3411	3757
75°	1484	2152	1584	1620	1726	1621
85°	256	490	628	759	796	312
90°	2	163	325	407	427	15
95°	2	102	223	271	279	3
105°	8	44	110	133	138	9
115°	15	23	56	71	75	14
125°	14	15	35	40	42	13
135°	17	19	21	31	33	14
145°	17	19	19	21	23	11
155°	19	21	21	21	19	9
165°	21	21	21	21	21	6
175°	21	21	19	17	17	2
180°	19	19	19	19	19	



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CATALOG NUMBER: OHBL-48HE-MCL-UNV-L930-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13290.9	13290.9	13290.9	13290.9	13290.9
2.5°	13237.1	13292.8	13223.6	13298.6	13317.8
5°	13204.4	13250.5	13158.3	13198.6	13181.3
7.5°	13144.8	13160.2	13050.7	13083.3	13048.7
10°	13056.4	13048.7	12920.0	12983.4	12991.1
12.5°	12925.7	12902.7	12787.4	12883.5	12885.4
15°	12775.9	12725.9	12635.6	12747.0	12762.4
17.5°	12602.9	12537.6	12478.0	12622.1	12599.0
20°	12401.1	12324.2	12312.7	12470.3	12412.6
22.5°	12151.3	12091.7	12118.6	12268.5	12232.0
25°	11868.8	11816.9	11899.5	12009.1	11974.5
27.5°	11570.9	11540.2	11634.3	11718.9	11651.6
30°	11244.2	11226.9	11351.8	11421.0	11336.5
32.5°	10888.7	10894.4	11013.6	11107.8	11029.0
35°	10519.7	10544.7	10652.3	10765.7	10723.4
37.5°	10114.2	10169.9	10277.6	10406.3	10362.1
40°	9685.7	9766.4	9885.5	10041.2	10000.8
42.5°	9222.5	9324.4	9478.1	9651.1	9647.2
45°	8730.5	8872.8	9038.0	9268.6	9297.5
47.5°	8219.4	8378.9	8588.3	8895.8	8940.0
50°	7664.0	7863.8	8125.2	8494.2	8521.1
52.5°	7045.2	7318.1	7664.0	8017.6	7984.9
55°	6424.4	6733.8	7193.1	7481.4	7464.1
57.5°	5805.6	6153.5	6710.8	6916.4	6914.5
60°	5113.8	5553.9	6163.1	6318.7	6165.0
62.5°	4473.9	4946.6	5578.9	5465.5	4938.9
65°	3770.5	4360.5	4950.5	4177.9	3411.1
67.5°	3145.9	3760.9	4204.8	2861.5	2450.2
70°	2517.5	3195.9	3278.5	2123.5	2094.7
72.5°	1960.2	2682.8	2261.9	1818.0	1910.2
75°	1483.6	2152.4	1583.5	1620.0	1725.7
77.5°	1082.0	1652.7	1231.8	1420.2	1506.7
80°	743.7	1170.4	1005.1	1193.4	1253.0
82.5°	467.0	772.5	805.2	960.9	1022.4
85°	255.6	490.0	628.4	759.1	795.6
87.5°	105.7	296.0	480.4	586.1	616.9
90°	1.9	163.3	324.8	407.4	426.6
92.5°	1.9	124.9	265.2	328.6	342.1
95°	1.9	101.9	222.9	271.0	278.7
97.5°	3.8	80.7	186.4	224.8	232.5
100°	5.8	67.3	155.7	188.3	194.1
102.5°	7.7	53.8	130.7	157.6	163.3
105°	7.7	44.2	109.5	132.6	138.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	13.5	26.9	65.3	82.6	86.5
115°	15.4	23.1	55.7	71.1	74.9
117.5°	15.4	19.2	48.0	59.6	63.4
120°	15.4	17.3	42.3	51.9	53.8
122.5°	15.4	15.4	36.5	46.1	48.0
125°	13.5	15.4	34.6	40.4	42.3
127.5°	15.4	15.4	30.7	36.5	38.4
130°	15.4	17.3	26.9	34.6	34.6
132.5°	17.3	19.2	25.0	32.7	32.7
135°	17.3	19.2	21.1	30.7	32.7
137.5°	19.2	19.2	19.2	28.8	30.7
140°	19.2	19.2	17.3	25.0	26.9
142.5°	17.3	19.2	17.3	23.1	25.0
145°	17.3	19.2	19.2	21.1	23.1
147.5°	19.2	19.2	19.2	19.2	21.1
150°	19.2	19.2	19.2	19.2	19.2
152.5°	19.2	19.2	19.2	19.2	19.2
155°	19.2	21.1	21.1	21.1	19.2
157.5°	19.2	21.1	21.1	21.1	21.1
160°	19.2	21.1	21.1	21.1	21.1
162.5°	21.1	21.1	21.1	21.1	21.1
165°	21.1	21.1	21.1	21.1	21.1
167.5°	21.1	23.1	21.1	21.1	21.1
170°	21.1	21.1	21.1	19.2	19.2
172.5°	21.1	21.1	21.1	19.2	19.2
175°	21.1	21.1	19.2	17.3	17.3
177.5°	23.1	21.1	19.2	17.3	15.4
180°	19.2	19.2	19.2	19.2	19.2



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	9.6	36.5	94.2	113.4	117.2
110°	11.5	30.7	78.8	96.1	99.9



(END OF REPORT)