

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: P830475

Luminaire Tested: **OHBL-48HE-MFL-UNV-L730-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830475
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-L730-CD
Description: 48000 LUMEN OHBL HE LED LUMINAIRE WITH 70CRI, 3000K LEDS AND MEDIUM FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

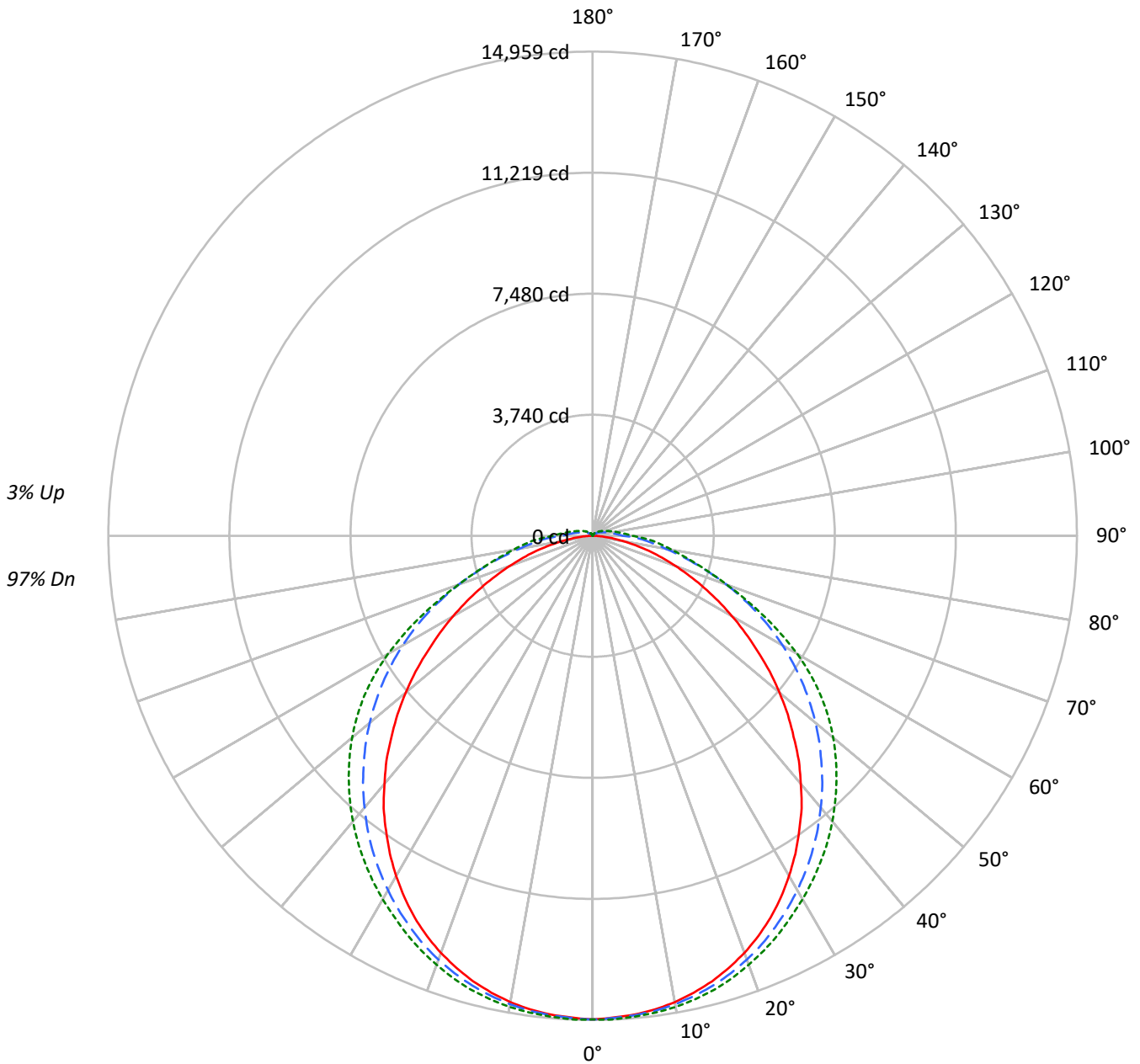
Lumens per Lamp: N/A
Luminaire Lumens: 44725.0 lumens
Efficiency: N/A
Efficacy: 168.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

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	0																
RCR																																					
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	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	80																	
2	98	89	82	76	95	87	80	75	83	77	73	79	74	71	75	72	68	68	68	66																	
3	89	78	70	63	86	76	69	62	73	66	61	70	64	59	67	62	58	58	58	56																	
4	81	69	60	53	79	68	59	53	65	57	52	62	56	51	59	54	50	50	50	47																	
5	75	62	53	46	72	60	52	46	58	50	45	56	49	44	53	48	43	43	43	41																	
6	69	56	47	40	67	54	46	40	52	45	39	50	44	39	48	43	38	38	38	36																	
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	44	38	34	34	34	32																	
8	60	46	37	31	58	45	37	31	43	36	31	42	35	31	41	35	30	30	30	28																	
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	37	32	27	27	27	25																	
10	52	39	31	26	51	38	31	26	37	30	25	36	29	25	35	29	25	25	25	23																	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	23634	23634	23634
5°	23482	23410	23481
10°	23318	23203	23358
15°	23057	22957	23197
20°	22712	22655	22961
25°	22250	22277	22721
30°	21610	21868	22481
35°	20836	21434	22274
40°	19907	20931	22069
45°	18811	20385	21808
50°	17611	19833	21492
55°	16137	19158	20956
60°	14627	18362	19888
65°	12979	17345	18132
70°	11193	16049	16231
75°	9384	14551	14947
80°	7115	13468	14829
85°	4502	13999	16571



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1416.0	3.2
10°-20°	4062.4	9.1
20°-30°	6143.6	13.7
30°-40°	7375.5	16.5
40°-50°	7617.7	17.0
50°-60°	6853.6	15.3
60°-70°	5162.7	11.5
70°-80°	3117.4	7.0
80°-90°	1524.7	3.4
90°-100°	641.8	1.4
100°-110°	366.3	0.8
110°-120°	215.0	0.5
120°-130°	121.6	0.3
130°-140°	64.0	0.1
140°-150°	31.1	0.1
150°-160°	11.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	11622.0	26.0
0°-40°	18997.5	42.5
0°-60°	33468.8	74.8
0°-90°	43273.5	96.8
90°-120°	1223.1	2.7
90°-150°	1439.9	3.2
90°-180°	1452.0	3.2
0°-180°	44725.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14944	14944	14944	14944	14944	
5°	14849	14889	14871	14929	14911	###
15°	14249	14319	14384	14505	14520	4017
25°	13013	13156	13342	13551	13584	5986
35°	11126	11385	11854	12212	12285	6955
45°	8781	9224	9996	10541	10654	6779
55°	6221	6865	7907	8503	8606	5578
65°	3796	4572	5596	5874	5808	3772
75°	1788	2568	3240	3325	3292	1908
85°	373	984	1624	1847	1880	431
90°	0	384	929	1170	1218	24
95°	18	260	695	885	918	15
105°	26	150	402	527	549	26
115°	29	84	249	333	348	30
125°	29	40	150	216	227	26
135°	26	33	77	132	146	20
145°	37	33	37	66	77	22
155°	37	40	37	33	37	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°	14944.0	14944.0	14944.0	14944.0	14944.0
2.5°	14900.2	14936.7	14914.8	14962.3	14958.7
5°	14849.0	14889.2	14870.9	14929.4	14911.1
7.5°	14761.2	14805.1	14801.4	14867.2	14859.9
10°	14633.2	14680.7	14695.3	14783.1	14783.1
12.5°	14457.6	14519.8	14556.4	14662.4	14666.1
15°	14249.1	14318.6	14384.5	14505.2	14519.8
17.5°	13996.8	14084.6	14176.0	14315.0	14333.3
20°	13711.5	13810.3	13934.6	14080.9	14102.8
22.5°	13382.3	13499.4	13660.3	13832.2	13857.8
25°	13013.0	13155.6	13342.1	13550.6	13583.5
27.5°	12592.4	12756.9	13009.3	13243.4	13272.6
30°	12135.2	12329.0	12643.6	12921.5	12969.1
32.5°	11652.4	11875.5	12263.2	12574.1	12639.9
35°	11125.7	11385.4	11853.6	12212.0	12285.1
37.5°	10606.4	10891.7	11422.0	11831.6	11919.4
40°	9999.3	10354.0	10961.2	11414.7	11520.7
42.5°	9428.7	9812.7	10500.3	10994.1	11096.5
45°	8781.4	9223.9	9995.6	10540.6	10653.9
47.5°	8174.2	8653.4	9509.2	10072.4	10189.5
50°	7534.2	8060.9	8989.8	9578.7	9699.4
52.5°	6894.2	7461.1	8452.2	9063.0	9176.4
55°	6221.2	6864.9	7907.3	8503.4	8605.8
57.5°	5595.8	6276.1	7347.7	7914.6	7976.7
60°	4977.7	5683.6	6777.1	7274.5	7296.5
62.5°	4374.2	5116.7	6191.9	6586.9	6557.7
65°	3796.4	4571.7	5595.8	5873.7	5807.9
67.5°	3240.4	4041.4	4985.0	5164.2	5076.4
70°	2713.8	3525.7	4392.5	4483.9	4403.5
72.5°	2249.3	3035.6	3792.7	3869.5	3811.0
75°	1788.5	2567.5	3240.4	3324.6	3291.6
77.5°	1356.9	2114.0	2732.1	2841.8	2849.1
80°	976.5	1700.7	2289.5	2461.4	2483.4
82.5°	643.7	1320.3	1920.1	2139.6	2172.5
85°	373.1	983.8	1623.9	1847.0	1879.9
87.5°	160.9	709.5	1305.7	1506.8	1547.1
90°	0.0	384.0	929.0	1170.4	1217.9
92.5°	11.0	318.2	797.3	1016.8	1057.0
95°	18.3	259.7	694.9	885.1	918.0
97.5°	21.9	219.4	603.5	771.7	804.6
100°	21.9	190.2	523.0	676.6	705.9
102.5°	21.9	168.2	457.2	592.5	618.1
105°	25.6	150.0	402.3	526.7	548.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	29.3	98.7	278.0	373.1	387.7
115°	29.3	84.1	248.7	332.8	347.5
117.5°	32.9	73.1	219.4	299.9	310.9
120°	32.9	62.2	193.8	267.0	281.6
122.5°	32.9	51.2	171.9	241.4	252.4
125°	29.3	40.2	150.0	215.8	226.8
127.5°	25.6	32.9	128.0	193.8	204.8
130°	25.6	29.3	109.7	171.9	182.9
132.5°	25.6	32.9	91.4	150.0	164.6
135°	25.6	32.9	76.8	131.7	146.3
137.5°	25.6	32.9	62.2	113.4	128.0
140°	29.3	32.9	51.2	95.1	109.7
142.5°	32.9	32.9	40.2	80.5	91.4
145°	36.6	32.9	36.6	65.8	76.8
147.5°	36.6	36.6	36.6	51.2	62.2
150°	36.6	40.2	36.6	40.2	51.2
152.5°	36.6	40.2	36.6	32.9	40.2
155°	36.6	40.2	36.6	32.9	36.6
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°	25.6	131.7	354.8	468.1	486.4
110°	25.6	117.0	314.5	416.9	435.2



(END OF REPORT)