

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: P830653

Luminaire Tested: **OHBL-60HE-NL-UNV-L940-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830653
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P472951)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-60HE-NL-UNV-L940-CD
Description: 60000 LUMEN OHBL HE LED LUMINAIRE WITH 90CRI, 4000K LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

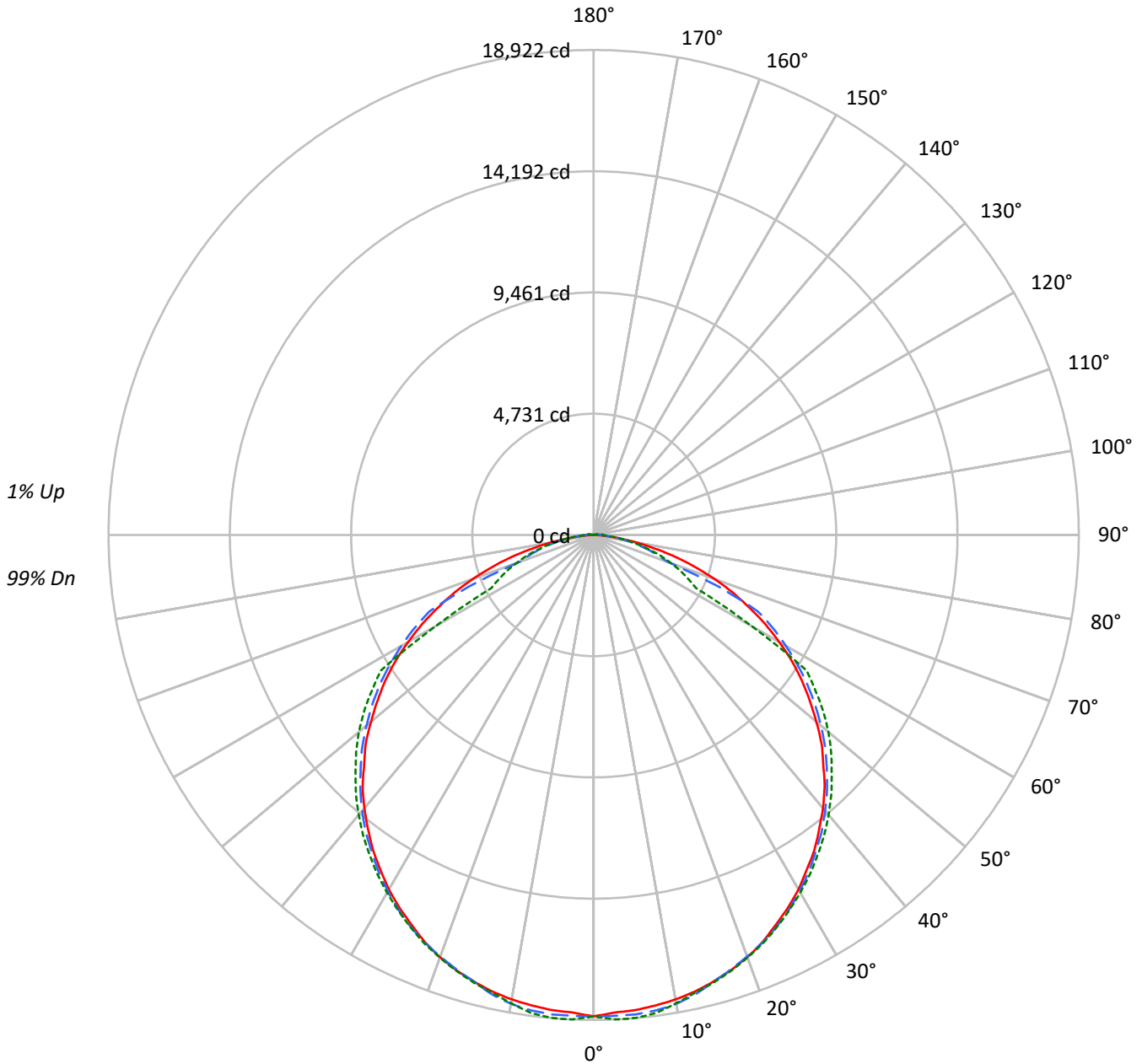
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52738.0 lumens
Efficiency: N/A
Efficacy: 156.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular (W 1.8' x L: 3.78' x H: 0')
CIE Type: Direct

Input Watts (W): 338
Input Voltage (V): NR
Input Current (Ain): 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	111	111	111	106	106	106	102	102	102				99																
1	109	105	100	97	106	102	99	95	98	95	92	94	91	89	90	88	86				84																
2	99	92	85	79	97	90	84	78	86	81	76	83	78	75	80	76	73				71																
3	91	81	73	66	88	79	72	66	76	70	64	73	68	63	70	66	62				60																
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53				51																
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46				44																
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	45	41				39																
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36				34																
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32				30																
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29				27																
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26				25																

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	29706	29706	29706
5°	29542	29809	30034
10°	29550	29831	29794
15°	29545	29540	29605
20°	29505	29460	29533
25°	29303	29453	29476
30°	29168	29318	29433
35°	28979	29138	29411
40°	28728	29001	29429
45°	28314	28742	29369
50°	27887	28456	29396
55°	27354	28063	29072
60°	26438	27376	22633
65°	25013	26468	15233
70°	23135	14051	14783
75°	20179	13352	14117
80°	15518	12248	12938
85°	7833	12379	12676



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1784.5	3.4
10°-20°	5109.6	9.7
20°-30°	7774.7	14.7
30°-40°	9453.0	17.9
40°-50°	9939.4	18.8
50°-60°	9075.8	17.2
60°-70°	5818.1	11.0
70°-80°	2748.4	5.2
80°-90°	762.1	1.4
90°-100°	201.8	0.4
100°-110°	55.3	0.1
110°-120°	15.3	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	14668.9	27.8
0°-40°	24121.9	45.7
0°-60°	43137.1	81.8
0°-90°	52465.6	99.5
90°-120°	272.4	0.5
90°-150°	272.4	0.5
90°-180°	272.0	0.5
0°-180°	52738.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	18784	18784	18784	18784	18784	
5°	18609	18682	18777	18880	18919	###
15°	18046	18181	18042	18069	18082	5095
25°	16793	16819	16879	16905	16892	7749
35°	15010	14921	15092	15277	15234	9380
45°	12660	12637	12851	13154	13131	9785
55°	9921	9845	10178	10518	10544	8848
65°	6684	6684	7073	4057	4071	6627
75°	3302	3365	2185	2301	2310	3481
85°	432	547	682	738	699	638
90°	0	185	303	359	353	19
95°	10	96	218	294	294	5
105°	16	36	53	53	50	16
115°	16	23	33	23	3	12
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CATALOG NUMBER: OHBL-60HE-NL-UNV-L940-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	18783.9	18783.9	18783.9	18783.9	18783.9
2.5°	18652.0	18714.8	18783.9	18872.9	18922.1
5°	18609.1	18681.7	18777.3	18879.5	18919.0
7.5°	18517.0	18618.9	18711.3	18783.9	18806.9
10°	18401.5	18523.6	18576.3	18569.7	18553.3
12.5°	18246.5	18375.3	18358.9	18282.8	18296.1
15°	18045.5	18180.6	18042.4	18068.6	18081.8
17.5°	17808.2	17940.1	17778.6	17831.3	17834.8
20°	17531.5	17630.3	17505.0	17547.9	17547.9
22.5°	17198.6	17267.7	17215.0	17244.7	17251.3
25°	16793.1	16819.3	16878.6	16905.1	16891.9
27.5°	16404.4	16371.2	16486.7	16549.2	16516.1
30°	15972.4	15919.7	16054.7	16157.0	16117.6
32.5°	15477.9	15445.1	15600.0	15721.8	15698.8
35°	15010.0	14921.0	15092.3	15276.9	15234.0
37.5°	14456.2	14403.5	14597.8	14792.6	14769.5
40°	13915.6	13826.7	14047.5	14278.2	14255.2
42.5°	13335.7	13229.9	13470.7	13747.8	13721.3
45°	12659.8	12636.7	12851.0	13154.2	13131.2
47.5°	12060.2	11944.7	12244.5	12538.0	12564.5
50°	11334.8	11292.2	11565.8	11921.7	11947.9
52.5°	10626.4	10596.7	10883.2	11242.6	11288.7
55°	9920.8	9845.1	10178.0	10517.5	10544.0
57.5°	9166.4	9087.1	9426.7	9795.9	9851.7
60°	8358.5	8282.8	8655.1	8998.2	7155.7
62.5°	7551.0	7498.4	7887.4	5586.8	4502.6
65°	6684.2	6684.2	7073.0	4057.3	4070.6
67.5°	5873.6	5820.9	5273.8	3645.2	3645.2
70°	5003.3	5023.2	3038.7	3194.0	3197.1
72.5°	4129.9	4202.5	2623.8	2748.7	2755.4
75°	3302.5	3365.3	2185.2	2300.7	2310.4
77.5°	2425.9	1865.5	1756.6	1846.0	1849.1
80°	1703.9	1176.7	1344.9	1430.4	1420.6
82.5°	995.2	823.9	985.4	1048.3	1044.8
85°	431.7	547.2	682.2	738.4	698.6
87.5°	138.2	339.5	425.0	458.2	454.7
90°	0.0	184.6	303.2	359.1	352.8
92.5°	0.0	144.8	263.8	329.8	332.9
95°	9.8	95.6	217.7	293.5	293.5
97.5°	6.6	69.1	154.9	230.7	237.3
100°	6.6	55.8	102.2	164.7	168.2
102.5°	16.4	46.1	62.5	105.4	108.9
105°	16.4	36.3	52.7	52.7	49.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	19.9	26.5	36.3	26.5	3.1
115°	16.4	23.0	32.8	23.0	3.1
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
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°	16.4	32.8	46.1	29.7	9.8
110°	19.9	29.7	39.4	26.5	3.1



(END OF REPORT)