

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: P830641

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830641
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-60HE-N-UNV-L940-CD
Description: 60000 LUMEN OHBL HE LED LUMINAIRE WITH 90CRI, 4000K LEDS AND NARROW LENS
Light Source: -
Ballast/Driver: -

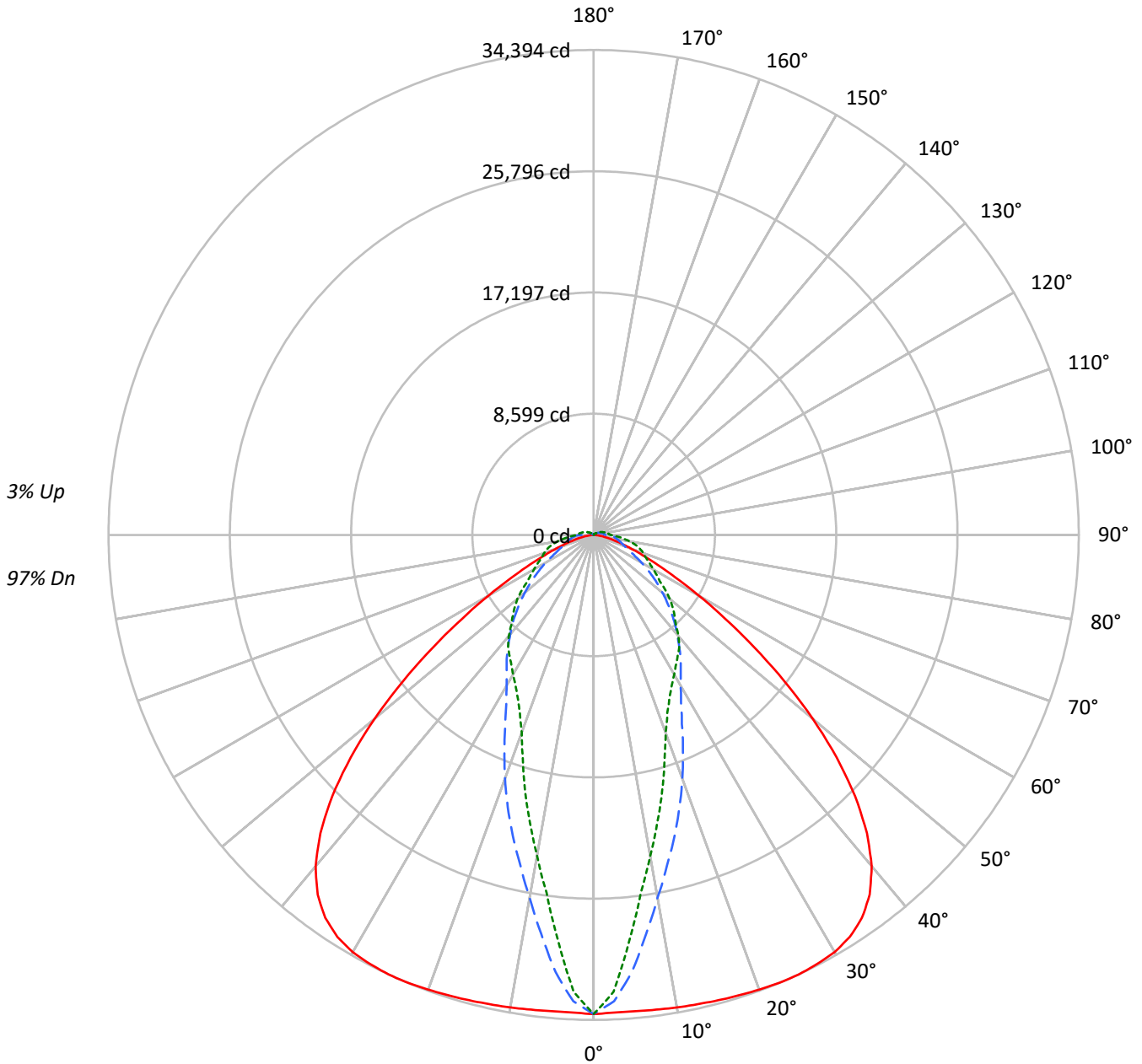
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50146.0 lumens
Efficiency: N/A
Efficacy: 148.4 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 338
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				20				
RC	80				70				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	99	97
1	109	104	100	97	106	102	98	95	97	94	91	92	90	88	88	86	85	85	85	85	82
2	100	93	86	81	97	90	85	80	86	82	78	83	79	75	79	76	73	73	73	73	71
3	92	83	75	69	90	81	74	69	78	72	67	74	70	65	72	67	64	64	64	64	62
4	85	74	66	60	83	73	66	60	70	64	59	67	62	57	65	60	56	56	56	56	54
5	79	67	59	53	77	66	59	53	64	57	52	62	56	51	59	54	50	50	50	50	48
6	74	62	53	47	72	60	53	47	58	52	46	56	50	46	55	49	45	45	45	45	43
7	69	56	48	43	67	55	48	42	54	47	42	52	46	41	50	45	41	41	41	41	39
8	65	52	44	39	63	51	44	39	50	43	38	48	42	38	47	41	37	37	37	37	35
9	61	48	41	35	59	47	40	35	46	40	35	45	39	35	44	38	34	34	34	34	32
10	57	45	37	33	56	44	37	32	43	37	32	42	36	32	41	35	32	32	32	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	53733	53733	53733
5°	53624	48956	45525
10°	54229	41256	36528
15°	55288	35300	30000
20°	56841	29861	24281
25°	58807	24729	21290
30°	60840	21315	19793
35°	62106	19437	18873
40°	61043	17568	17921
45°	56157	15887	16608
50°	47379	14047	15606
55°	36001	12316	13906
60°	25229	10575	13336
65°	16970	9121	13084
70°	11590	8578	13767
75°	8043	8872	14772
80°	5536	9873	15312
85°	3238	12461	16275



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2860.1	5.7
10°-20°	6728.3	13.4
20°-30°	8433.8	16.8
30°-40°	8949.2	17.8
40°-50°	8091.5	16.1
50°-60°	5866.9	11.7
60°-70°	3681.7	7.3
70°-80°	2436.5	4.9
80°-90°	1403.7	2.8
90°-100°	680.0	1.4
100°-110°	469.4	0.9
110°-120°	289.6	0.6
120°-130°	140.3	0.3
130°-140°	64.5	0.1
140°-150°	35.2	0.1
150°-160°	15.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	18022.2	35.9
0°-40°	26971.4	53.8
0°-60°	40929.8	81.6
0°-90°	48451.6	96.6
90°-120°	1439.0	2.9
90°-150°	1679.0	3.3
90°-180°	1694.0	3.4
0°-180°	50146.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	33977	33977	33977	33977	33977	
5°	33909	33039	31099	29656	28909	###
15°	34167	27849	22119	19671	18778	9690
25°	34394	21533	14810	13145	12728	15889
35°	33162	14316	10749	10412	10409	20615
45°	26216	9067	7790	7978	8113	19971
55°	13879	5620	5083	5514	5711	12540
65°	4964	3260	2943	3770	4191	5165
75°	1533	1756	1976	3069	3253	1709
85°	268	728	1446	2011	1846	322
90°	0	304	838	1180	1190	17
95°	13	213	737	1002	1048	11
105°	26	142	537	711	731	26
115°	36	100	362	453	462	35
125°	39	52	184	233	230	34
135°	32	39	81	126	126	25
145°	39	42	48	74	71	23
155°	39	48	52	55	48	12
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	33976.6	33976.6	33976.6	33976.6	33976.6
2.5°	33905.4	33711.4	33106.7	32738.1	32427.6
5°	33908.7	33038.8	31098.6	29656.4	28909.4
7.5°	33957.2	32023.4	28527.8	26422.6	25601.3
10°	34031.6	30765.5	26128.4	23884.2	23117.8
12.5°	34086.5	29349.2	24016.8	21711.1	20870.4
15°	34167.4	27848.7	22118.6	19670.7	18778.2
17.5°	34241.8	26435.6	20243.0	17685.2	16692.4
20°	34316.1	24912.5	18367.5	15732.0	14913.9
22.5°	34387.3	23305.3	16537.2	14215.4	13656.0
25°	34393.7	21533.3	14810.4	13145.0	12727.9
27.5°	34309.7	19696.5	13410.2	12249.3	11990.6
30°	34164.1	17914.8	12323.7	11602.6	11418.2
32.5°	33802.0	16097.4	11482.9	10978.4	10871.7
35°	33161.7	14315.6	10748.9	10412.5	10409.3
37.5°	32152.8	12734.3	9953.4	9895.2	9966.3
40°	30662.0	11350.3	9199.9	9355.1	9355.1
42.5°	28673.3	10147.4	8517.6	8676.0	8634.0
45°	26215.7	9067.3	7790.0	7977.6	8113.4
47.5°	23366.8	8116.6	7046.3	7408.4	7596.0
50°	20268.9	7211.2	6367.2	6829.6	7043.0
52.5°	17022.2	6373.6	5704.3	6234.6	6406.0
55°	13879.1	5620.2	5083.4	5513.5	5710.7
57.5°	11033.4	4902.3	4475.5	4882.9	5290.3
60°	8585.5	4284.7	3903.1	4485.2	4892.6
62.5°	6558.0	3734.9	3366.3	4113.3	4520.7
65°	4963.7	3259.6	2942.7	3770.5	4190.9
67.5°	3741.4	2848.9	2612.8	3521.5	3932.2
70°	2810.1	2451.2	2347.7	3366.3	3734.9
72.5°	2076.0	2085.7	2137.5	3230.5	3511.8
75°	1532.8	1755.9	1975.8	3068.8	3253.1
77.5°	1096.2	1455.2	1830.3	2874.8	2939.4
80°	759.9	1186.8	1678.3	2619.3	2564.3
82.5°	475.4	950.7	1542.5	2338.0	2186.0
85°	268.4	727.6	1445.5	2011.4	1846.4
87.5°	119.6	543.3	1264.4	1568.3	1464.9
90°	0.0	304.0	837.5	1180.3	1190.0
92.5°	6.5	252.2	772.9	1080.1	1112.4
95°	12.9	213.4	737.3	1002.5	1047.7
97.5°	16.2	187.6	692.0	931.3	970.1
100°	19.4	168.2	637.0	856.9	889.3
102.5°	22.6	155.2	585.3	779.3	805.2
105°	25.9	142.3	536.8	711.4	730.8



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

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	32.3	109.9	404.2	510.9	527.1
115°	35.6	100.2	362.2	452.7	462.4
117.5°	38.8	87.3	316.9	397.7	401.0
120°	38.8	77.6	271.6	339.5	339.5
122.5°	38.8	64.7	226.4	281.3	278.1
125°	38.8	51.7	184.3	232.8	229.6
127.5°	35.6	42.0	148.8	194.0	190.8
130°	35.6	42.0	119.6	164.9	164.9
132.5°	32.3	38.8	97.0	142.3	142.3
135°	32.3	38.8	80.8	126.1	126.1
137.5°	32.3	42.0	67.9	109.9	109.9
140°	32.3	38.8	58.2	97.0	97.0
142.5°	35.6	38.8	51.7	84.1	84.1
145°	38.8	42.0	48.5	74.4	71.1
147.5°	38.8	45.3	48.5	64.7	61.4
150°	38.8	48.5	48.5	58.2	55.0
152.5°	38.8	48.5	48.5	55.0	51.7
155°	38.8	48.5	51.7	55.0	48.5
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°	25.9	132.6	491.5	637.0	659.7
110°	29.1	119.6	449.5	569.1	591.8



(END OF REPORT)