

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: P830605

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830605
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-60HE-A-UNV-L940-CD
Description: 60000 LUMEN OHBL HE LED LUMINAIRE WITH 90CRI, 4000K LEDS AND AISLE LENS
Light Source: -
Ballast/Driver: -

Summary

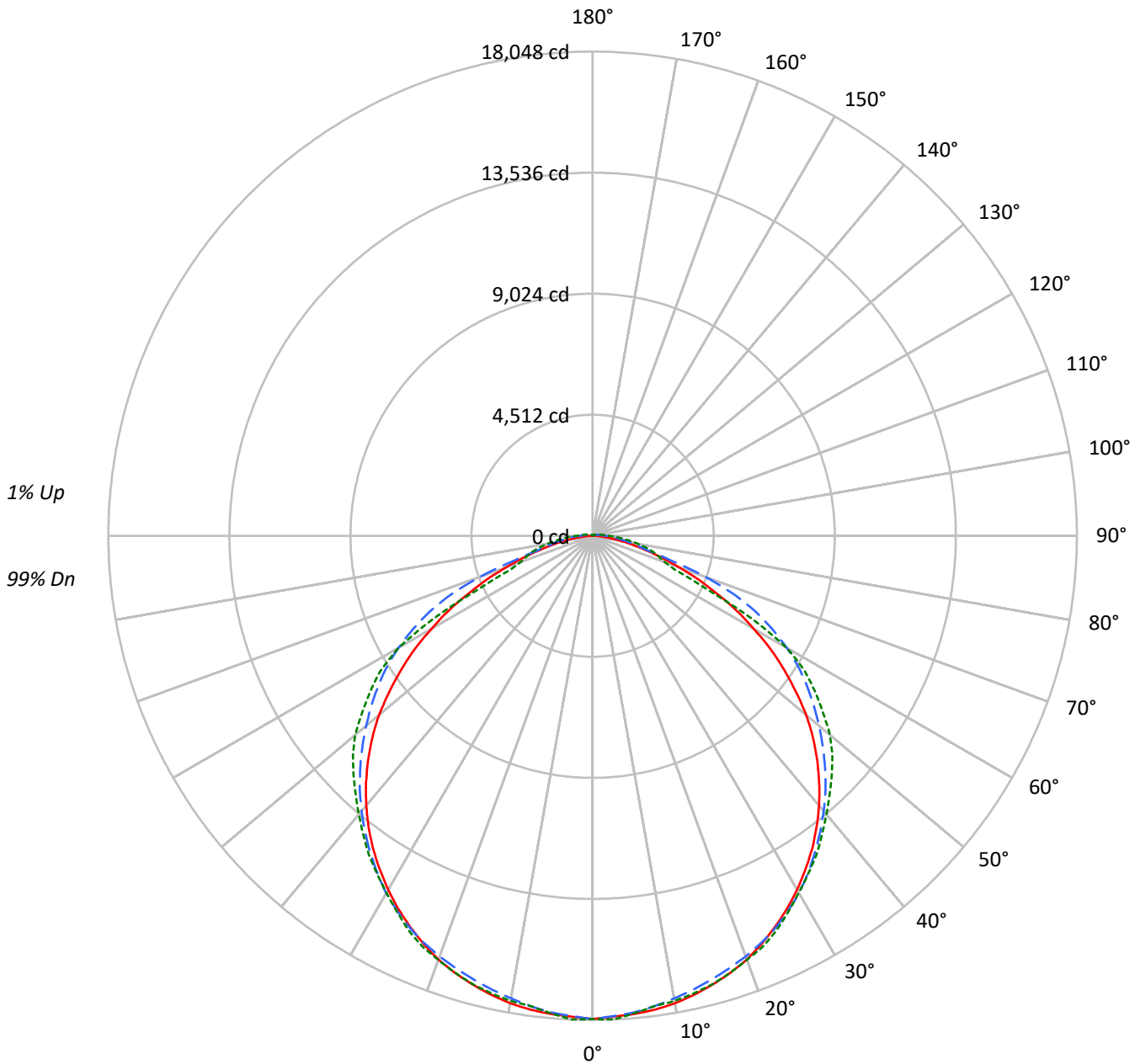
Lumens per Lamp: N/A
Luminaire Lumens: 50909.9 lumens
Efficiency: N/A
Efficacy: 150.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 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	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°	28486	28486	28486
5°	28299	28072	28131
10°	28196	27647	27818
15°	28017	27329	27632
20°	27838	27128	27387
25°	27502	26926	27145
30°	27136	26609	26631
35°	26700	26104	26348
40°	26132	25583	25963
45°	25345	24980	25792
50°	24278	24293	25588
55°	22584	23618	24633
60°	20365	22629	22773
65°	17470	20795	14433
70°	14071	16233	10464
75°	10550	9637	10620
80°	7343	8013	10140
85°	4179	7342	9504



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1698.4	3.3
10°-20°	4870.1	9.6
20°-30°	7438.2	14.6
30°-40°	9025.1	17.7
40°-50°	9459.1	18.6
50°-60°	8571.4	16.8
60°-70°	5746.8	11.3
70°-80°	2580.6	5.1
80°-90°	936.4	1.8
90°-100°	281.9	0.6
100°-110°	133.0	0.3
110°-120°	66.6	0.1
120°-130°	36.8	0.1
130°-140°	25.3	0.0
140°-150°	17.0	0.0
150°-160°	12.6	0.0
160°-170°	8.1	0.0
170°-180°	2.6	0.0
0°-30°	14006.7	27.5
0°-40°	23031.7	45.2
0°-60°	41062.3	80.7
0°-90°	50326.1	98.9
90°-120°	481.5	0.9
90°-150°	560.6	1.1
90°-180°	584.0	1.1
0°-180°	50909.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	18012	18012	18012	18012	18012	
5°	17895	17957	17832	17887	17864	###
15°	17314	17246	17124	17275	17296	4888
25°	16085	16014	16126	16275	16228	7414
35°	14256	14290	14436	14590	14532	8911
45°	11832	12024	12248	12561	12600	9115
55°	8706	9126	9748	10139	10116	7772
65°	5110	5909	6709	5662	4623	5091
75°	2011	2917	2146	2196	2339	2197
85°	346	664	852	1029	1078	423
90°	3	221	440	552	578	21
95°	3	138	302	367	378	4
105°	10	60	148	180	188	12
115°	21	31	76	96	102	19
125°	18	21	47	55	57	18
135°	23	26	29	42	44	19
145°	23	26	26	29	31	15
155°	26	29	29	29	26	12
165°	29	29	29	29	29	8
175°	29	29	26	23	23	3
180°	26	26	26	26	26	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	18012.0	18012.0	18012.0	18012.0	<i>18012.0</i>
2.5°	<i>17939.1</i>	<i>18014.6</i>	<i>17920.8</i>	<i>18022.4</i>	<i>18048.5</i>
5°	17894.8	17957.3	17832.3	17887.0	<i>17863.6</i>
7.5°	17814.1	17834.9	17686.5	17730.7	<i>17683.8</i>
10°	17694.3	17683.8	17509.4	17595.3	<i>17605.7</i>
12.5°	17517.2	17485.9	17329.6	17459.9	<i>17462.5</i>
15°	17314.0	17246.3	17123.9	17275.0	<i>17295.8</i>
17.5°	17079.6	16991.1	16910.3	17105.7	<i>17074.4</i>
20°	16806.2	16702.0	16686.4	16899.9	<i>16821.8</i>
22.5°	16467.6	16386.9	16423.3	16626.5	<i>16577.0</i>
25°	16084.7	16014.4	16126.4	16274.9	<i>16228.0</i>
27.5°	15681.1	15639.4	15767.0	15881.6	<i>15790.5</i>
30°	15238.3	15214.9	15384.2	15477.9	<i>15363.3</i>
32.5°	14756.5	14764.3	14925.8	15053.4	<i>14946.6</i>
35°	14256.5	14290.3	14436.2	14589.8	<i>14532.5</i>
37.5°	13706.9	13782.5	13928.3	14102.8	<i>14042.9</i>
40°	13126.2	13235.5	13397.0	13608.0	<i>13553.3</i>
42.5°	12498.5	12636.5	12844.9	13079.3	<i>13074.1</i>
45°	11831.8	12024.5	12248.5	12561.0	<i>12600.1</i>
47.5°	11139.0	11355.2	11639.0	12055.7	<i>12115.6</i>
50°	10386.3	10657.2	11011.4	11511.4	<i>11547.9</i>
52.5°	9547.7	9917.5	10386.3	10865.5	<i>10821.3</i>
55°	8706.5	9125.8	9748.3	10138.9	<i>10115.5</i>
57.5°	7867.9	8339.3	9094.5	9373.2	<i>9370.6</i>
60°	6930.3	7526.7	8352.3	8563.3	<i>8354.9</i>
62.5°	6063.0	6703.7	7560.6	7406.9	<i>6693.3</i>
65°	5109.8	5909.4	6708.9	5662.0	<i>4622.8</i>
67.5°	4263.4	5096.8	5698.4	3877.9	<i>3320.6</i>
70°	3411.8	4331.1	4443.1	2877.9	<i>2838.8</i>
72.5°	2656.5	3635.7	3065.4	2463.8	<i>2588.8</i>
75°	2010.6	2916.9	2146.0	2195.5	<i>2338.7</i>
77.5°	1466.3	2239.8	1669.4	1924.6	<i>2041.8</i>
80°	1007.9	1586.1	1362.1	1617.3	<i>1698.1</i>
82.5°	632.9	1047.0	1091.2	1302.2	<i>1385.5</i>
85°	346.4	664.1	851.6	1028.7	<i>1078.2</i>
87.5°	143.2	401.1	651.1	794.3	<i>836.0</i>
90°	2.6	221.4	440.1	552.1	<i>578.2</i>
92.5°	2.6	169.3	359.4	445.4	<i>463.6</i>
95°	2.6	138.0	302.1	367.2	<i>377.6</i>
97.5°	5.2	109.4	252.6	304.7	<i>315.1</i>
100°	7.8	91.2	211.0	255.2	<i>263.0</i>
102.5°	10.4	72.9	177.1	213.6	<i>221.4</i>
105°	10.4	59.9	148.5	179.7	<i>187.5</i>



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	18.2	36.5	88.5	112.0	117.2
115°	20.8	31.3	75.5	96.4	101.6
117.5°	20.8	26.0	65.1	80.7	85.9
120°	20.8	23.4	57.3	70.3	72.9
122.5°	20.8	20.8	49.5	62.5	65.1
125°	18.2	20.8	46.9	54.7	57.3
127.5°	20.8	20.8	41.7	49.5	52.1
130°	20.8	23.4	36.5	46.9	46.9
132.5°	23.4	26.0	33.9	44.3	44.3
135°	23.4	26.0	28.6	41.7	44.3
137.5°	26.0	26.0	26.0	39.1	41.7
140°	26.0	26.0	23.4	33.9	36.5
142.5°	23.4	26.0	23.4	31.3	33.9
145°	23.4	26.0	26.0	28.6	31.3
147.5°	26.0	26.0	26.0	26.0	28.6
150°	26.0	26.0	26.0	26.0	26.0
152.5°	26.0	26.0	26.0	26.0	26.0
155°	26.0	28.6	28.6	28.6	26.0
157.5°	26.0	28.6	28.6	28.6	28.6
160°	26.0	28.6	28.6	28.6	28.6
162.5°	28.6	28.6	28.6	28.6	28.6
165°	28.6	28.6	28.6	28.6	28.6
167.5°	28.6	31.3	28.6	28.6	28.6
170°	28.6	28.6	28.6	26.0	26.0
172.5°	28.6	28.6	28.6	26.0	26.0
175°	28.6	28.6	26.0	23.4	23.4
177.5°	31.3	28.6	26.0	23.4	20.8
180°	26.0	26.0	26.0	26.0	26.0



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







107.5°	13.0	49.5	127.6	153.7	158.9
110°	15.6	41.7	106.8	130.2	135.4



(END OF REPORT)