

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: P829707

Luminaire Tested: **OHBL-100SE-NL-UNV-L730-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829707
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-100SE-NL-UNV-L730-CD
Description: 100000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 3000K LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

Summary

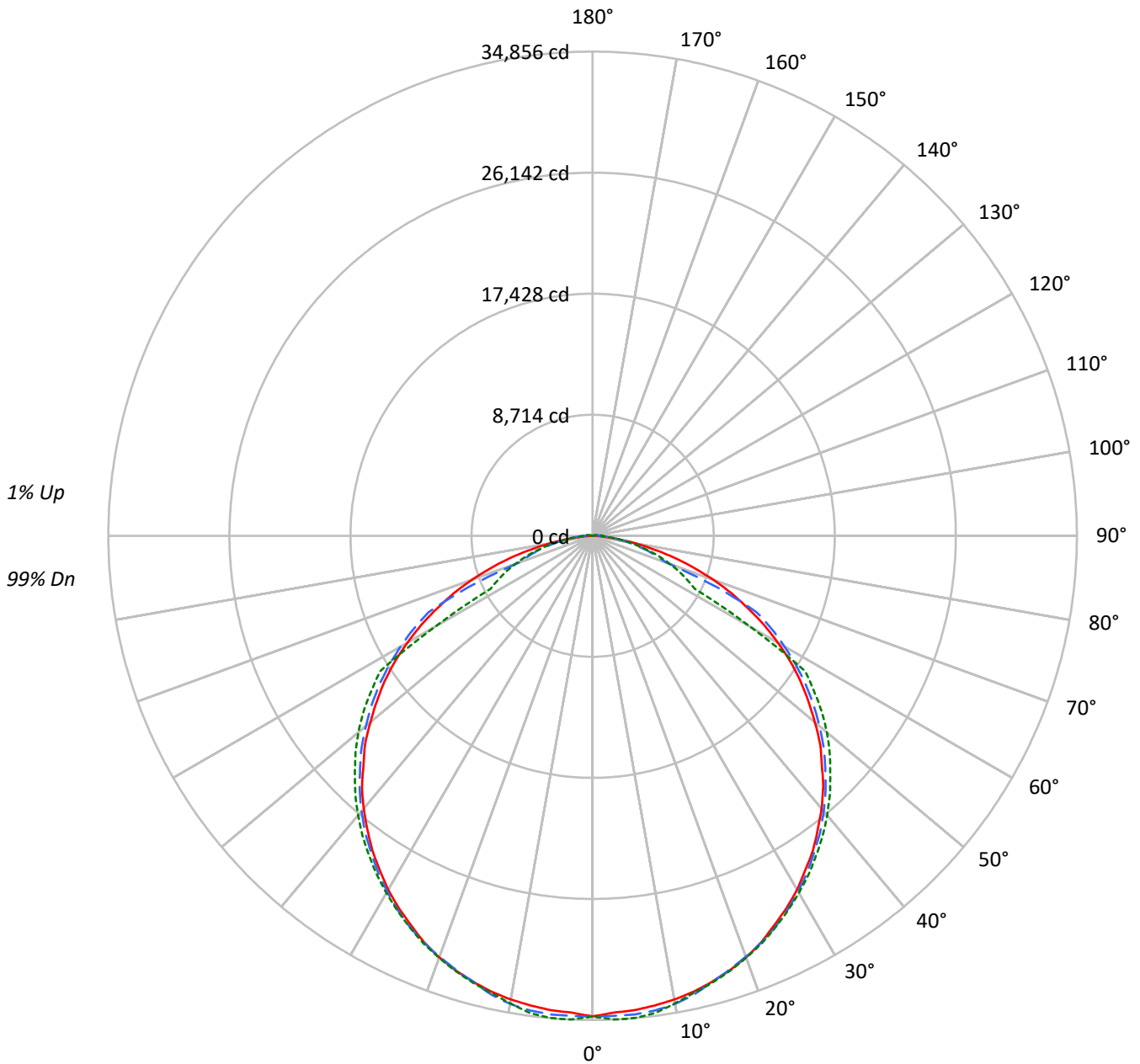
Lumens per Lamp: N/A
Luminaire Lumens: 97147.0 lumens
Efficiency: N/A
Efficacy: 164.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular (W 1.8' x L: 3.78' x H: 0')
CIE Type: Direct

Input Watts (W): 590.1
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

TEST NUMBER: P829707

CATALOG NUMBER: OHBL-100SE-NL-UNV-L730-CD

Luminous Intensity Polar Plot





TEST NUMBER: P829707

CATALOG NUMBER: OHBL-100SE-NL-UNV-L730-CD

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°	54721	54721	54721
5°	54419	54911	55325
10°	54434	54951	54883
15°	54424	54415	54534
20°	54350	54268	54401
25°	53979	54254	54296
30°	53729	54006	54217
35°	53381	53673	54177
40°	52920	53421	54211
45°	52156	52944	54099
50°	51370	52418	54149
55°	50388	51694	53553
60°	48700	50428	41691
65°	46076	48755	28059
70°	42616	25882	27232
75°	37172	24595	26006
80°	28586	22562	23832
85°	14427	22803	23351



TEST NUMBER: P829707

CATALOG NUMBER: OHBL-100SE-NL-UNV-L730-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3287.2	3.4
10°-20°	9412.3	9.7
20°-30°	14321.6	14.7
30°-40°	17413.1	17.9
40°-50°	18309.0	18.8
50°-60°	16718.3	17.2
60°-70°	10717.2	11.0
70°-80°	5062.7	5.2
80°-90°	1403.8	1.4
90°-100°	371.8	0.4
100°-110°	101.8	0.1
110°-120°	28.2	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°	27021.1	27.8
0°-40°	44434.2	45.7
0°-60°	79461.4	81.8
0°-90°	96645.2	99.5
90°-120°	501.8	0.5
90°-150°	501.8	0.5
90°-180°	502.0	0.5
0°-180°	97147.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	34601	34601	34601	34601	34601	
5°	34279	34413	34589	34777	34850	###
15°	33241	33490	33235	33284	33308	9385
25°	30934	30982	31092	31140	31116	14274
35°	27649	27486	27801	28141	28062	17279
45°	23320	23278	23672	24231	24188	18025
55°	18275	18135	18748	19374	19423	16298
65°	12313	12313	13029	7474	7498	12207
75°	6084	6199	4025	4238	4256	6413
85°	795	1008	1257	1360	1287	1175
90°	0	340	559	661	650	35
95°	18	176	401	541	541	10
105°	30	67	97	97	91	30
115°	30	42	60	42	6	21
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



TEST NUMBER: P829707

CATALOG NUMBER: OHBL-100SE-NL-UNV-L730-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	34601.3	34601.3	34601.3	34601.3	<i>34601.3</i>
2.5°	<i>34358.3</i>	<i>34474.0</i>	<i>34601.3</i>	<i>34765.2</i>	<i>34855.8</i>
5°	34279.2	34412.9	34589.0	34777.4	<i>34850.0</i>
7.5°	34109.5	34297.2	34467.6	34601.3	<i>34643.7</i>
10°	33896.8	34121.7	34218.8	34206.6	<i>34176.4</i>
12.5°	33611.3	33848.5	33818.3	33678.2	<i>33702.6</i>
15°	33241.1	33489.9	33235.3	33283.5	<i>33307.9</i>
17.5°	32804.0	33047.0	32749.4	32846.4	<i>32852.8</i>
20°	32294.3	32476.2	32245.4	32324.5	<i>32324.5</i>
22.5°	31681.0	31808.3	31711.2	31765.9	<i>31778.1</i>
25°	30934.1	30982.3	31091.6	31140.4	<i>31116.0</i>
27.5°	30218.0	30156.9	30369.7	30484.8	<i>30423.7</i>
30°	29422.2	29325.2	29573.9	29762.3	<i>29689.6</i>
32.5°	28511.4	28451.0	28736.4	28960.7	<i>28918.3</i>
35°	27649.4	27485.5	27801.1	28141.1	<i>28062.1</i>
37.5°	26629.3	26532.2	26890.2	27248.9	<i>27206.5</i>
40°	25633.6	25469.6	25876.5	26301.4	<i>26259.0</i>
42.5°	24565.2	24370.5	24814.0	25324.4	<i>25275.5</i>
45°	23320.1	23277.7	23672.4	24231.0	<i>24188.5</i>
47.5°	22215.8	22003.0	22555.2	23095.8	<i>23144.6</i>
50°	20879.4	20801.0	21305.0	21960.6	<i>22008.8</i>
52.5°	19574.5	19519.9	20047.6	20709.7	<i>20794.6</i>
55°	18274.8	18135.3	18748.5	19374.0	<i>19422.8</i>
57.5°	16885.1	16739.1	17364.6	18044.7	<i>18147.5</i>
60°	15397.0	15257.5	15943.4	16575.2	<i>13181.2</i>
62.5°	13909.5	13812.5	14529.2	10291.2	<i>8294.0</i>
65°	12312.8	12312.8	13028.9	7473.8	<i>7498.3</i>
67.5°	10819.6	10722.5	9714.6	6714.7	<i>6714.7</i>
70°	9216.5	9253.1	5597.5	5883.5	<i>5889.3</i>
72.5°	7607.5	7741.2	4833.2	5063.3	<i>5075.5</i>
75°	6083.5	6199.2	4025.2	4238.0	<i>4256.0</i>
77.5°	4468.7	3436.4	3235.9	3400.4	<i>3406.2</i>
80°	3138.8	2167.5	2477.3	2634.8	<i>2616.8</i>
82.5°	1833.3	1517.6	1815.3	1931.0	<i>1924.5</i>
85°	795.1	1007.9	1256.7	1360.2	<i>1286.9</i>
87.5°	254.5	625.4	782.9	844.0	<i>837.6</i>
90°	0.0	340.0	558.6	661.4	<i>649.9</i>
92.5°	0.0	266.8	486.0	607.4	<i>613.2</i>
95°	18.0	176.1	401.1	540.6	<i>540.6</i>
97.5°	12.2	127.3	285.4	424.9	<i>437.1</i>
100°	12.2	102.8	188.3	303.4	<i>309.8</i>
102.5°	30.2	84.8	115.1	194.1	<i>200.6</i>
105°	30.2	66.9	97.1	97.1	<i>91.3</i>



TEST NUMBER: P829707

CATALOG NUMBER: OHBL-100SE-NL-UNV-L730-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	36.6	48.9	66.9	48.9	5.8
115°	30.2	42.4	60.4	42.4	5.8
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°	30.2	60.4	84.8	54.6	18.0
110°	36.6	54.6	72.6	48.9	5.8



(END OF REPORT)