

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: P830775

Luminaire Tested: **OHBL-72SE-N-UNV-L730-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830775
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-72SE-N-UNV-L730-CD
Description: 72000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 3000K LEDS AND NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

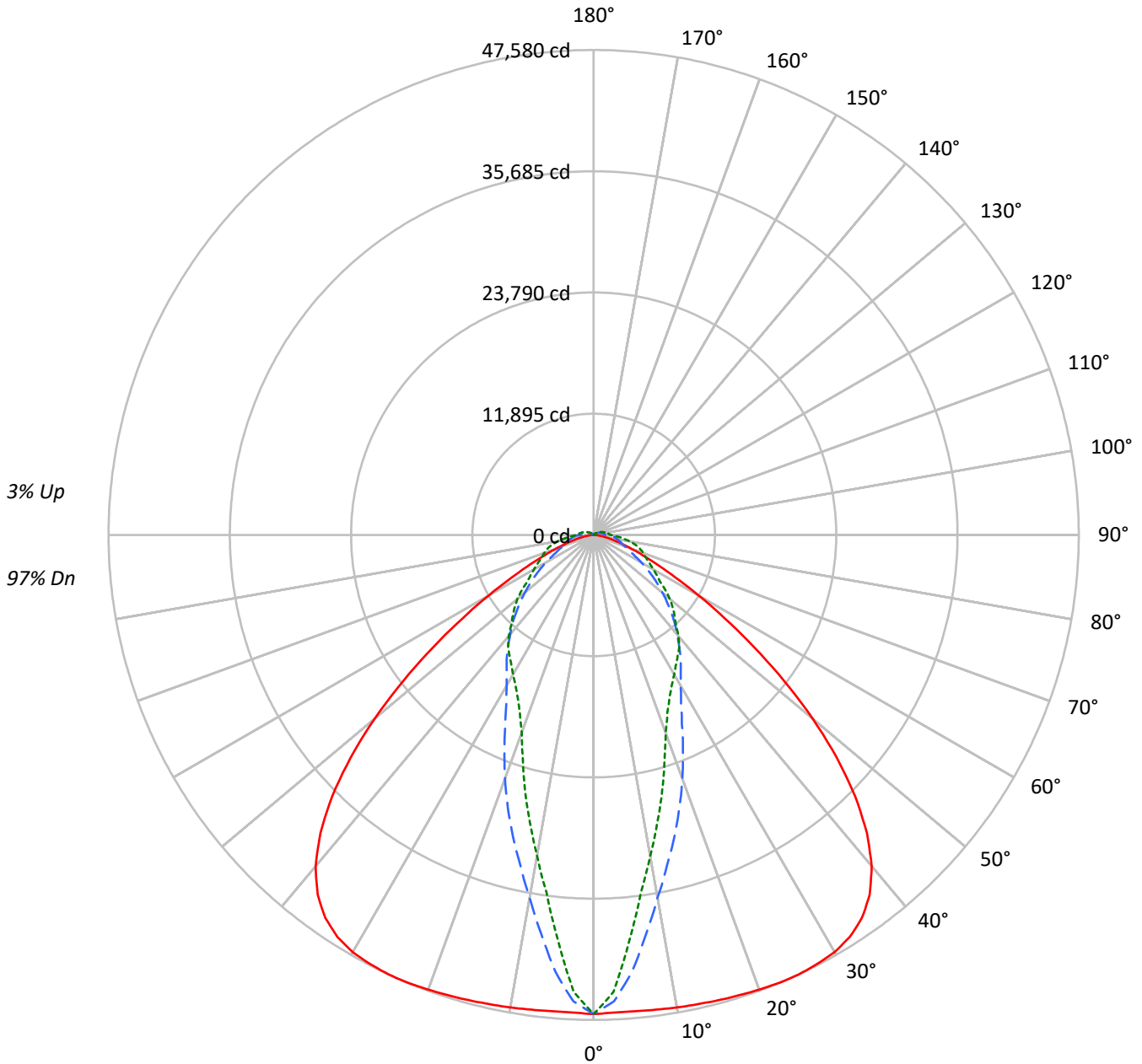
Lumens per Lamp: N/A
Luminaire Lumens: 69371.0 lumens
Efficiency: N/A
Efficacy: 167.7 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 413.7
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

TEST NUMBER: P830775

CATALOG NUMBER: OHBL-72SE-N-UNV-L730-CD

Luminous Intensity Polar Plot





TEST NUMBER: P830775

CATALOG NUMBER: OHBL-72SE-N-UNV-L730-CD

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	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	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	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	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	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	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	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	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	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	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	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	32	32	32	30		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	74333	74333	74333
5°	74182	67724	62979
10°	75019	57072	50532
15°	76484	48833	41502
20°	78633	41310	33590
25°	81352	34210	29453
30°	84164	29487	27381
35°	85916	26888	26108
40°	84445	24303	24791
45°	77686	21978	22975
50°	65543	19433	21589
55°	49803	17038	19238
60°	34901	14629	18449
65°	23476	12618	18100
70°	16033	11866	19045
75°	11126	12274	20435
80°	7660	13658	21182
85°	4480	17238	22515



TEST NUMBER: P830775

CATALOG NUMBER: OHBL-72SE-N-UNV-L730-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3956.6	5.7
10°-20°	9307.7	13.4
20°-30°	11667.1	16.8
30°-40°	12380.2	17.8
40°-50°	11193.6	16.1
50°-60°	8116.1	11.7
60°-70°	5093.2	7.3
70°-80°	3370.6	4.9
80°-90°	1941.8	2.8
90°-100°	940.7	1.4
100°-110°	649.3	0.9
110°-120°	400.7	0.6
120°-130°	194.1	0.3
130°-140°	89.2	0.1
140°-150°	48.8	0.1
150°-160°	21.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
<hr/>		
0°-30°	24931.5	35.9
0°-40°	37311.7	53.8
0°-60°	56621.4	81.6
0°-90°	67027.0	96.6
90°-120°	1990.7	2.9
90°-150°	2322.8	3.3
90°-180°	2344.0	3.4
0°-180°	69371.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	47003	47003	47003	47003	47003	
5°	46909	45705	43021	41026	39993	###
15°	47266	38525	30598	27212	25977	13404
25°	47580	29789	20488	18185	17608	21981
35°	45875	19804	14870	14404	14400	28518
45°	36266	12544	10776	11036	11224	27628
55°	19200	7775	7032	7627	7900	17348
65°	6867	4509	4071	5216	5798	7146
75°	2120	2429	2733	4245	4500	2364
85°	371	1006	2000	2782	2554	445
90°	0	420	1159	1633	1646	24
95°	18	295	1020	1387	1449	16
105°	36	197	743	984	1011	36
115°	49	139	501	626	640	48
125°	54	72	255	322	318	47
135°	45	54	112	174	174	35
145°	54	58	67	103	98	32
155°	54	67	72	76	67	17
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P830775

CATALOG NUMBER: OHBL-72SE-N-UNV-L730-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	47002.6	47002.6	47002.6	47002.6	47002.6
2.5°	46904.1	46635.7	45799.2	45289.2	44859.8
5°	46908.6	45705.3	43021.2	41026.0	39992.7
7.5°	46975.7	44300.6	39464.8	36552.6	35416.3
10°	47078.6	42560.4	36145.5	33040.9	31980.7
12.5°	47154.6	40601.0	33224.3	30034.8	28871.7
15°	47266.5	38525.4	30598.4	27212.0	25977.3
17.5°	47369.4	36570.5	28003.8	24465.3	23092.0
20°	47472.3	34463.5	25409.2	21763.3	20631.6
22.5°	47570.7	32240.2	22877.2	19665.3	18891.4
25°	47579.6	29788.7	20488.4	18184.6	17607.5
27.5°	47463.3	27247.8	18551.4	16945.4	16587.6
30°	47262.0	24782.9	17048.3	16050.7	15795.8
32.5°	46761.0	22268.8	15885.2	15187.4	15039.7
35°	45875.2	19804.0	14869.8	14404.5	14400.0
37.5°	44479.5	17616.5	13769.3	13688.8	13787.2
40°	42417.3	15701.8	12727.0	12941.7	12941.7
42.5°	39666.1	14037.7	11783.1	12002.3	11944.1
45°	36266.3	12543.6	10776.5	11036.0	11223.9
47.5°	32325.2	11228.4	9747.7	10248.7	10508.1
50°	28039.6	9975.8	8808.2	9447.9	9743.2
52.5°	23548.2	8817.2	7891.2	8624.8	8861.9
55°	19200.1	7774.9	7032.3	7627.2	7900.1
57.5°	15263.4	6781.8	6191.3	6754.9	7318.6
60°	11877.0	5927.3	5399.5	6204.7	6768.3
62.5°	9072.2	5166.8	4656.9	5690.2	6253.9
65°	6866.7	4509.2	4070.8	5216.0	5797.6
67.5°	5175.8	3941.1	3614.5	4871.6	5439.7
70°	3887.4	3390.9	3247.7	4656.9	5166.8
72.5°	2872.0	2885.4	2957.0	4469.0	4858.2
75°	2120.4	2429.1	2733.3	4245.3	4500.3
77.5°	1516.5	2013.1	2532.0	3976.9	4066.4
80°	1051.3	1641.8	2321.7	3623.5	3547.4
82.5°	657.6	1315.2	2133.8	3234.3	3024.1
85°	371.3	1006.5	1999.6	2782.5	2554.3
87.5°	165.5	751.5	1749.1	2169.6	2026.5
90°	0.0	420.5	1158.6	1632.8	1646.2
92.5°	8.9	348.9	1069.2	1494.1	1538.9
95°	17.9	295.2	1019.9	1386.8	1449.4
97.5°	22.4	259.5	957.3	1288.4	1342.0
100°	26.8	232.6	881.3	1185.5	1230.2
102.5°	31.3	214.7	809.7	1078.1	1113.9
105°	35.8	196.8	742.6	984.2	1011.0



TEST NUMBER: P830775

CATALOG NUMBER: OHBL-72SE-N-UNV-L730-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	44.7	152.1	559.2	706.8	729.2
115°	49.2	138.7	501.0	626.3	639.7
117.5°	53.7	120.8	438.4	550.2	554.7
120°	53.7	107.4	375.8	469.7	469.7
122.5°	53.7	89.5	313.1	389.2	384.7
125°	53.7	71.6	255.0	322.1	317.6
127.5°	49.2	58.2	205.8	268.4	263.9
130°	49.2	58.2	165.5	228.1	228.1
132.5°	44.7	53.7	134.2	196.8	196.8
135°	44.7	53.7	111.8	174.5	174.5
137.5°	44.7	58.2	93.9	152.1	152.1
140°	44.7	53.7	80.5	134.2	134.2
142.5°	49.2	53.7	71.6	116.3	116.3
145°	53.7	58.2	67.1	102.9	98.4
147.5°	53.7	62.6	67.1	89.5	85.0
150°	53.7	67.1	67.1	80.5	76.0
152.5°	53.7	67.1	67.1	76.0	71.6
155°	53.7	67.1	71.6	76.0	67.1
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°	35.8	183.4	680.0	881.3	912.6
110°	40.3	165.5	621.8	787.3	818.6



(END OF REPORT)