

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: P830533

Luminaire Tested: **OHBL-48SE-A-UNV-L940-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830533  
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-48SE-A-UNV-L940-CD  
Description: 48000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 4000K LEDS AND AISLE LENS  
Light Source: -  
Ballast/Driver: -

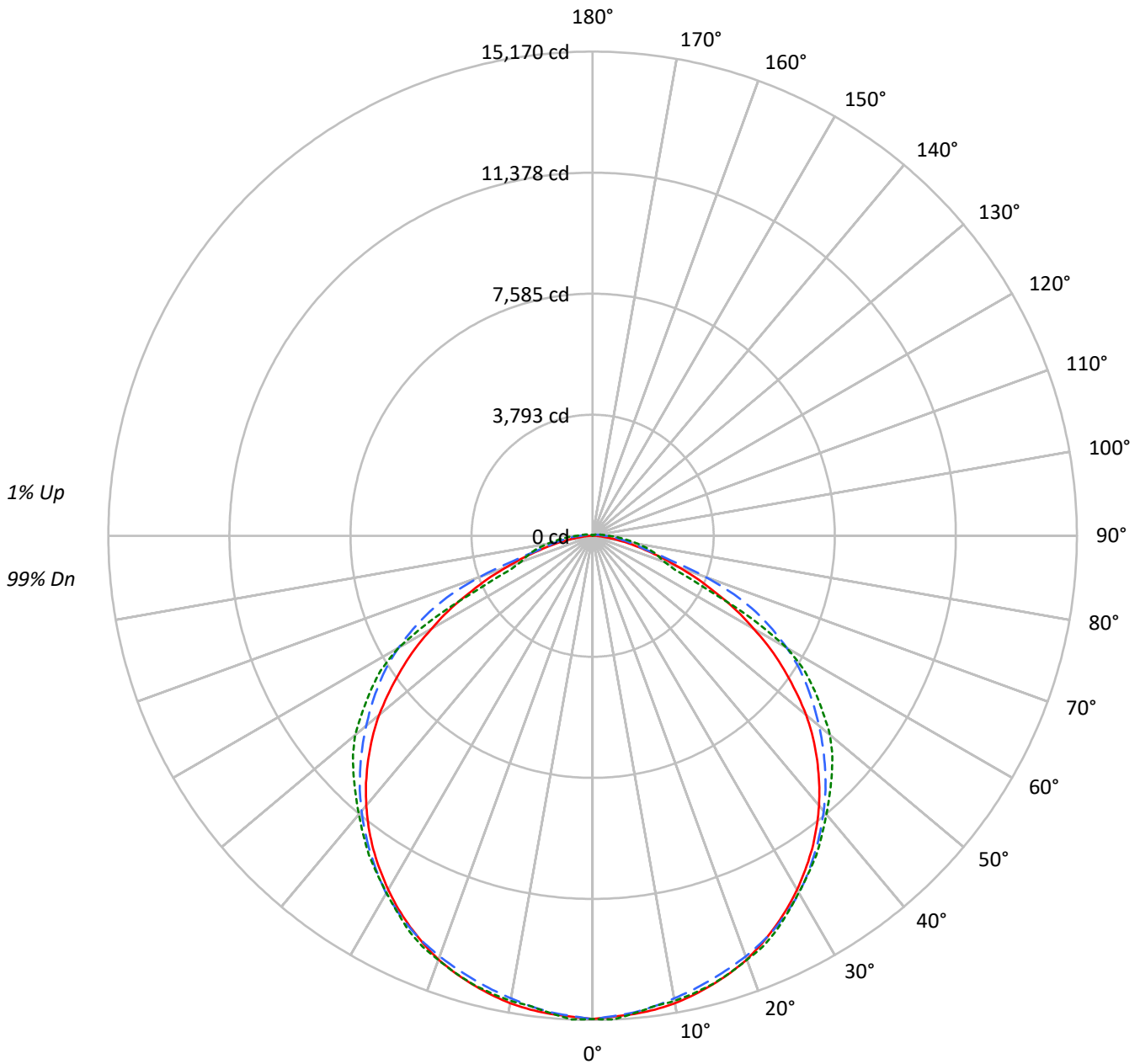
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 42792.0 lumens  
Efficiency: N/A  
Efficacy: 148.2 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 288.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	25859	25859	25859
5°	25689	25471	25520
10°	25595	25074	25220
15°	25433	24775	25035
20°	25271	24581	24797
25°	24966	24386	24560
30°	24634	24086	24078
35°	24238	23616	23803
40°	23722	23130	23433
45°	23008	22568	23256
50°	22039	21930	23045
55°	20501	21300	22154
60°	18487	20384	20447
65°	15859	18703	12930
70°	12774	14571	9347
75°	9577	8624	9446
80°	6666	7137	8958
85°	3795	6480	8287



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1427.5	3.3
10°-20°	4093.5	9.6
20°-30°	6252.1	14.6
30°-40°	7586.0	17.7
40°-50°	7950.8	18.6
50°-60°	7204.6	16.8
60°-70°	4830.4	11.3
70°-80°	2169.1	5.1
80°-90°	787.1	1.8
90°-100°	236.9	0.6
100°-110°	111.8	0.3
110°-120°	56.0	0.1
120°-130°	30.9	0.1
130°-140°	21.2	0.0
140°-150°	14.3	0.0
150°-160°	10.6	0.0
160°-170°	6.8	0.0
170°-180°	2.2	0.0
0°-30°	11773.2	27.5
0°-40°	19359.1	45.2
0°-60°	34514.6	80.7
0°-90°	42301.2	98.9
90°-120°	404.7	0.9
90°-150°	471.2	1.1
90°-180°	491.0	1.1
0°-180°	42792.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	15140	15140	15140	15140	15140	
5°	15041	15094	14989	15035	15015	###
15°	14553	14496	14393	14520	14538	4109
25°	13520	13461	13555	13680	13640	6232
35°	11983	12012	12134	12263	12215	7490
45°	9945	10107	10295	10558	10591	7661
55°	7318	7671	8194	8522	8502	6532
65°	4295	4967	5639	4759	3886	4279
75°	1690	2452	1804	1845	1966	1847
85°	291	558	716	865	906	355
90°	2	186	370	464	486	17
95°	2	116	254	309	317	3
105°	9	50	125	151	158	10
115°	18	26	64	81	85	16
125°	15	18	39	46	48	15
135°	20	22	24	35	37	16
145°	20	22	22	24	26	13
155°	22	24	24	24	22	10
165°	24	24	24	24	24	7
175°	24	24	22	20	20	2
180°	22	22	22	22	22	



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CATALOG NUMBER: OHBL-48SE-A-UNV-L940-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	15139.8	15139.8	15139.8	15139.8	15139.8
2.5°	15078.6	15142.0	15063.2	15148.6	15170.5
5°	15041.3	15093.9	14988.8	15034.8	15015.1
7.5°	14973.5	14991.0	14866.2	14903.4	14864.0
10°	14872.8	14864.0	14717.3	14789.6	14798.3
12.5°	14723.9	14697.6	14566.3	14675.8	14677.9
15°	14553.2	14496.2	14393.4	14520.3	14537.8
17.5°	14356.1	14281.7	14213.9	14378.0	14351.8
20°	14126.3	14038.7	14025.6	14205.1	14139.4
22.5°	13841.7	13773.8	13804.5	13975.2	13933.6
25°	13519.9	13460.8	13554.9	13679.7	13640.3
27.5°	13180.6	13145.6	13252.8	13349.2	13272.5
30°	12808.4	12788.7	12931.0	13009.8	12913.5
32.5°	12403.5	12410.0	12545.8	12653.0	12563.3
35°	11983.2	12011.6	12134.2	12263.4	12215.2
37.5°	11521.3	11584.7	11707.3	11854.0	11803.7
40°	11033.1	11125.0	11260.8	11438.1	11392.1
42.5°	10505.5	10621.5	10796.7	10993.7	10989.3
45°	9945.1	10107.1	10295.4	10558.1	10590.9
47.5°	9362.8	9544.5	9783.1	10133.4	10183.7
50°	8730.1	8957.8	9255.5	9675.8	9706.5
52.5°	8025.3	8336.1	8730.1	9132.9	9095.7
55°	7318.2	7670.6	8193.8	8522.2	8502.5
57.5°	6613.3	7009.5	7644.4	7878.6	7876.4
60°	5825.2	6326.5	7020.5	7197.8	7022.6
62.5°	5096.2	5634.8	6355.0	6225.8	5626.0
65°	4295.0	4967.1	5639.1	4759.1	3885.7
67.5°	3583.6	4284.1	4789.8	3259.6	2791.1
70°	2867.7	3640.5	3734.6	2419.0	2386.1
72.5°	2232.9	3056.0	2576.6	2070.9	2176.0
75°	1690.0	2451.8	1803.8	1845.4	1965.8
77.5°	1232.5	1882.6	1403.2	1617.7	1716.3
80°	847.2	1333.2	1144.9	1359.4	1427.3
82.5°	532.0	880.0	917.2	1094.6	1164.6
85°	291.2	558.2	715.8	864.7	906.3
87.5°	120.4	337.1	547.3	667.7	702.7
90°	2.2	186.1	370.0	464.1	486.0
92.5°	2.2	142.3	302.1	374.3	389.7
95°	2.2	116.0	253.9	308.7	317.4
97.5°	4.4	91.9	212.3	256.1	264.9
100°	6.6	76.6	177.3	214.5	221.1
102.5°	8.8	61.3	148.9	179.5	186.1
105°	8.8	50.3	124.8	151.0	157.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	15.3	30.6	74.4	94.1	98.5
115°	17.5	26.3	63.5	81.0	85.4
117.5°	17.5	21.9	54.7	67.9	72.2
120°	17.5	19.7	48.2	59.1	61.3
122.5°	17.5	17.5	41.6	52.5	54.7
125°	15.3	17.5	39.4	46.0	48.2
127.5°	17.5	17.5	35.0	41.6	43.8
130°	17.5	19.7	30.6	39.4	39.4
132.5°	19.7	21.9	28.5	37.2	37.2
135°	19.7	21.9	24.1	35.0	37.2
137.5°	21.9	21.9	21.9	32.8	35.0
140°	21.9	21.9	19.7	28.5	30.6
142.5°	19.7	21.9	19.7	26.3	28.5
145°	19.7	21.9	21.9	24.1	26.3
147.5°	21.9	21.9	21.9	21.9	24.1
150°	21.9	21.9	21.9	21.9	21.9
152.5°	21.9	21.9	21.9	21.9	21.9
155°	21.9	24.1	24.1	24.1	21.9
157.5°	21.9	24.1	24.1	24.1	24.1
160°	21.9	24.1	24.1	24.1	24.1
162.5°	24.1	24.1	24.1	24.1	24.1
165°	24.1	24.1	24.1	24.1	24.1
167.5°	24.1	26.3	24.1	24.1	24.1
170°	24.1	24.1	24.1	21.9	21.9
172.5°	24.1	24.1	24.1	21.9	21.9
175°	24.1	24.1	21.9	19.7	19.7
177.5°	26.3	24.1	21.9	19.7	17.5
180°	21.9	21.9	21.9	21.9	21.9



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	10.9	41.6	107.3	129.2	133.5
110°	13.1	35.0	89.8	109.5	113.8



(END OF REPORT)