

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: P828114

Luminaire Tested: **OHBL-48HE-N-UNV-L935-CD-UPL24**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P828114  
REPORT IS A COMBINATION OF REPORTS P826254 AND G3-2310-221-6  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-48HE-N-UNV-L935-CD-UPL24  
Description:  
Light Source: -  
Ballast/Driver: -

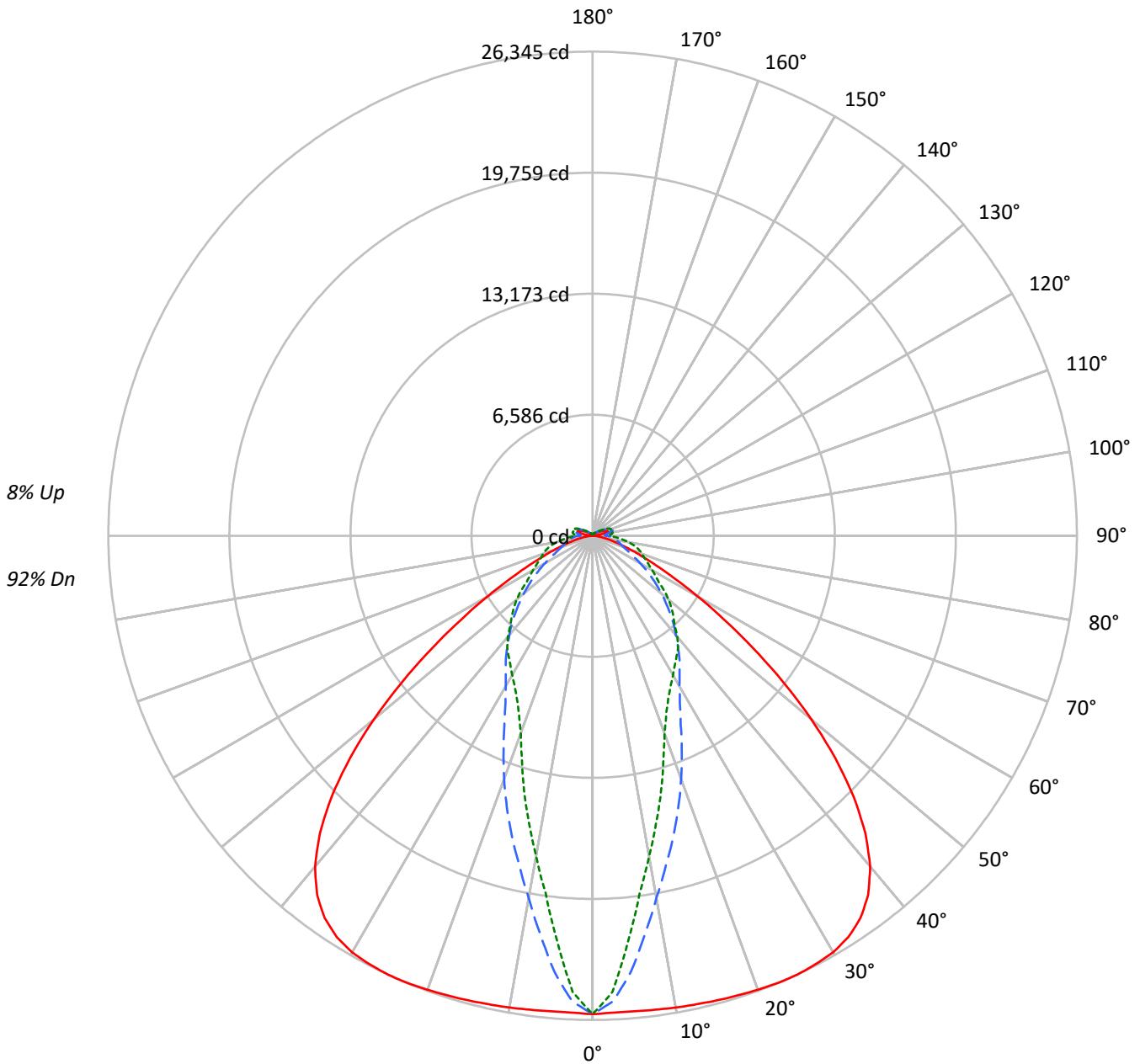
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 40427.8 lumens  
Efficiency: N/A  
Efficacy: 142.7 lumens/watt  
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 283.4  
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	117	117	117	117	113	113	113	113	107	107	107	100	100	100	95	95	95	92																			
1	108	103	99	96	104	100	97	93	94	92	89	89	87	85	84	83	81	78																			
2	99	92	85	80	96	89	83	79	84	80	76	80	76	73	76	73	70	67																			
3	91	82	74	68	88	80	73	67	76	70	65	72	67	63	68	64	61	59																			
4	84	74	66	59	82	72	64	59	68	62	57	65	60	55	62	58	54	52																			
5	78	67	58	52	76	65	57	52	62	55	50	59	54	49	57	52	48	46																			
6	73	61	52	47	70	59	52	46	57	50	45	54	49	44	52	47	43	41																			
7	68	56	48	42	66	54	47	41	52	45	41	50	44	40	48	43	39	37																			
8	64	51	43	38	62	50	43	38	48	42	37	46	41	36	45	39	36	34																			
9	60	47	40	35	58	46	39	34	45	38	34	43	37	33	42	36	33	31																			
10	56	44	37	32	55	43	36	32	42	35	31	40	35	31	39	34	30	28																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	41159	41159	41159
5°	40902	37499	35019
10°	41188	31601	28217
15°	41812	27039	23275
20°	42795	22873	18922
25°	44068	18942	16669
30°	45363	16327	15575
35°	46054	14888	14932
40°	44991	13457	14266
45°	41105	12169	13313
50°	34401	10760	12610
55°	25888	9434	11347
60°	17925	8100	11013
65°	11871	6986	10975
70°	7934	6570	11799
75°	5331	6796	13075
80°	3476	7562	14311
85°	1812	9545	17064



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2190.8	5.4
10°-20°	5153.7	12.7
20°-30°	6460.1	16.0
30°-40°	6854.9	17.0
40°-50°	6197.9	15.3
50°-60°	4493.9	11.1
60°-70°	2820.2	7.0
70°-80°	1866.3	4.6
80°-90°	1080.3	2.7
90°-100°	714.1	1.8
100°-110°	1030.3	2.5
110°-120°	797.2	2.0
120°-130°	383.5	0.9
130°-140°	187.6	0.5
140°-150°	107.0	0.3
150°-160°	58.4	0.1
160°-170°	24.2	0.1
170°-180°	7.4	0.0
0°-30°	13804.6	34.1
0°-40°	20659.5	51.1
0°-60°	31351.4	77.5
0°-90°	37118.1	91.8
90°-120°	2541.6	6.3
90°-150°	3219.7	8.0
90°-180°	3310.0	8.2
0°-180°	40427.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	26025	26025	26025	26025	26025	
5°	25973	25307	23821	22716	22144	###
15°	26172	21332	16942	15067	14384	7422
25°	26345	16494	11344	10069	9749	12171
35°	25401	10966	8233	7976	7973	15791
45°	20081	6945	5967	6111	6215	15297
55°	10631	4305	3894	4223	4374	9606
65°	3802	2497	2254	2888	3210	3956
75°	1174	1345	1513	2351	2492	1309
85°	206	557	1107	1541	1414	246
90°	4	261	681	956	969	16
95°	54	256	708	958	1018	146
105°	856	936	1114	1046	1020	813
115°	604	659	860	928	930	608
125°	311	336	444	480	475	290
135°	191	200	238	274	276	151
145°	151	156	164	184	183	95
155°	126	136	140	143	138	54
165°	83	84	85	85	85	24
175°	75	76	76	77	77	7
180°	75	75	75	75	75	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	26025.4	26025.4	26025.4	26025.4	26025.4
2.5°	25970.9	25822.2	25359.1	25076.8	24838.9
5°	25973.3	25307.1	23820.9	22716.2	22144.0
7.5°	26010.5	24529.3	21851.8	20239.2	19610.1
10°	26067.5	23565.8	20013.8	18294.8	17707.8
12.5°	26109.6	22480.8	18396.3	16630.2	15986.2
15°	26171.5	21331.6	16942.4	15067.3	14383.7
17.5°	26228.5	20249.1	15505.8	13546.5	12786.1
20°	26285.5	19082.5	14069.1	12050.4	11423.8
22.5°	26340.0	17851.4	12667.2	10888.7	10460.2
25°	26344.9	16494.1	11344.5	10068.8	9749.3
27.5°	26280.5	15087.2	10271.9	9382.8	9184.6
30°	26169.1	13722.3	9439.7	8887.3	8746.2
32.5°	25891.7	12330.3	8795.7	8409.2	8327.5
35°	25401.2	10965.5	8233.4	7975.8	7973.3
37.5°	24628.4	9754.2	7624.1	7579.5	7634.0
40°	23486.5	8694.1	7046.9	7165.8	7165.8
42.5°	21963.2	7772.7	6524.3	6645.7	6613.5
45°	20080.7	6945.4	5967.0	6110.7	6214.7
47.5°	17898.5	6217.2	5397.2	5674.8	5818.3
50°	15525.6	5523.6	4877.2	5231.3	5394.8
52.5°	13038.7	4882.1	4369.3	4775.6	4906.8
55°	10631.1	4304.9	3893.8	4223.2	4374.3
57.5°	8451.4	3755.1	3428.1	3740.2	4052.3
60°	6576.3	3282.0	2989.7	3435.5	3747.7
62.5°	5023.2	2860.9	2578.5	3150.7	3462.8
65°	3802.2	2496.8	2254.0	2888.2	3210.2
67.5°	2865.8	2182.2	2001.4	2697.4	3012.0
70°	2152.5	1877.5	1798.3	2578.5	2860.9
72.5°	1590.2	1597.7	1637.2	2474.5	2690.0
75°	1174.1	1345.0	1513.4	2350.7	2491.8
77.5°	839.7	1114.7	1401.9	2202.0	2251.6
80°	582.1	909.1	1285.5	2006.3	1964.2
82.5°	364.1	728.2	1181.5	1790.8	1674.4
85°	205.6	557.3	1107.2	1540.7	1414.3
87.5°	91.7	416.2	968.5	1201.3	1122.1
90°	4.2	261.2	680.7	955.8	969.0
92.5°	19.1	230.7	652.0	912.3	947.9
95°	54.1	256.0	708.1	957.8	1017.5
97.5°	236.6	386.2	790.9	1029.2	1086.4
100°	474.8	617.2	882.2	1073.1	1105.3
102.5°	728.2	825.6	963.3	1058.6	1071.8
105°	855.7	935.7	1114.5	1045.8	1019.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	698.1	767.6	979.6	1042.2	1027.9
115°	603.9	659.2	859.9	927.6	930.0
117.5°	523.1	561.1	740.2	801.3	804.7
120°	438.1	476.9	633.1	680.9	675.9
122.5°	372.2	402.0	530.9	571.3	563.8
125°	311.4	336.3	443.7	480.0	475.0
127.5°	265.6	281.3	371.4	406.9	403.7
130°	234.8	246.3	314.2	349.7	350.5
132.5°	208.9	219.8	270.2	308.2	307.3
135°	191.4	199.8	237.8	274.1	275.8
137.5°	177.2	187.2	212.0	246.8	246.8
140°	164.8	173.1	192.1	223.5	224.3
142.5°	156.4	162.2	175.5	201.9	201.9
145°	150.6	156.3	163.8	184.5	182.8
147.5°	143.1	151.3	155.5	169.5	167.1
150°	137.2	146.3	148.8	157.1	155.4
152.5°	131.4	140.5	143.0	148.8	146.3
155°	126.4	135.5	139.7	142.9	138.0
157.5°	92.5	94.2	95.8	96.7	96.7
160°	89.2	90.0	91.7	92.5	92.5
162.5°	85.8	86.7	87.5	88.3	88.3
165°	83.3	84.2	85.0	85.0	85.0
167.5°	80.8	80.8	81.7	82.5	82.5
170°	78.3	79.2	79.2	80.0	80.0
172.5°	76.7	77.5	77.5	77.5	78.3
175°	75.0	75.8	75.8	76.7	76.7
177.5°	75.0	75.0	75.0	75.0	75.0
180°	75.0	75.0	75.0	75.0	75.0



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	859.0	944.1	1154.0	1095.5	1011.2
110°	796.5	873.3	1088.5	1115.9	1051.6



(END OF REPORT)