

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: P828153

Luminaire Tested: **OHB-18HE-MFL-UNV-L940-CD-UPL12**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P828153  
REPORT IS A COMBINATION OF REPORTS P826025 AND G3-2310-221-12  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHB-18HE-MFL-UNV-L940-CD-UPL12  
Description:  
Light Source: -  
Ballast/Driver: -

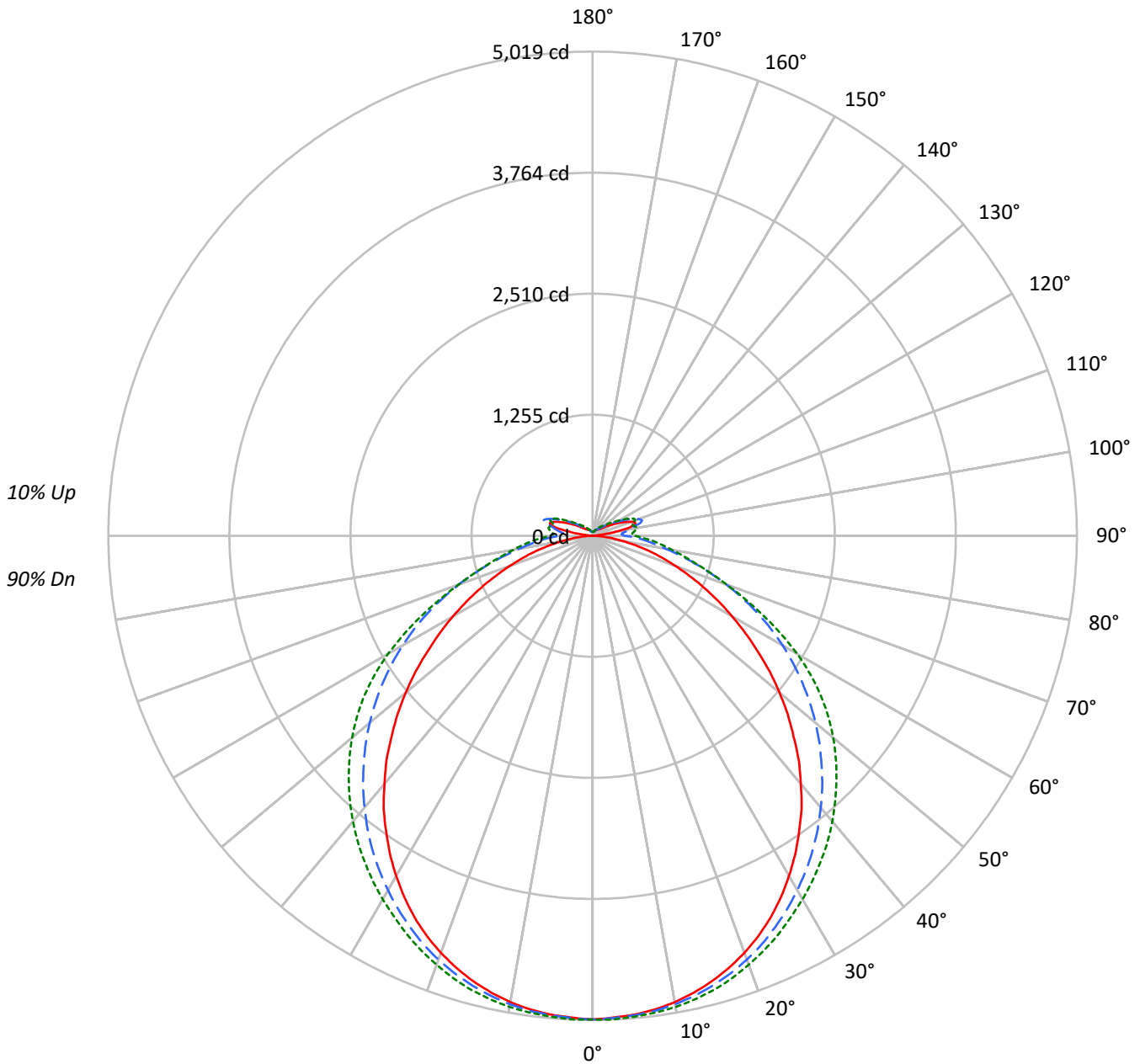
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16088.5 lumens  
Efficiency: N/A  
Efficacy: 141.9 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 1.93' x L: 1.67' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 113.4  
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

TEST NUMBER: P828153

CATALOG NUMBER: OHB-18HE-MFL-UNV-L940-CD-UPL12

### Luminous Intensity Polar Plot





TEST NUMBER: P828153

CATALOG NUMBER: OHB-18HE-MFL-UNV-L940-CD-UPL12

**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	106	106	106	99	99	99	93	93	93	90																			
1	106	101	97	93	102	98	94	90	92	88	85	86	84	81	81	79	77	74																			
2	96	88	81	75	93	85	79	73	80	75	70	75	71	67	71	67	64	62																			
3	88	77	69	62	84	75	67	61	70	64	59	66	61	57	63	58	54	52																			
4	80	68	59	53	77	66	58	52	62	56	50	59	53	48	56	51	47	44																			
5	74	61	52	45	71	59	51	45	56	49	43	53	47	42	50	45	41	38																			
6	68	55	46	39	65	53	45	39	51	43	38	48	42	37	45	40	36	33																			
7	63	50	41	35	61	48	40	34	46	39	33	44	37	32	41	36	32	29																			
8	59	45	37	31	57	44	36	31	42	35	30	40	34	29	38	32	28	26																			
9	55	41	33	28	53	40	33	27	39	32	27	37	31	26	35	30	26	24																			
10	51	38	30	25	50	37	30	25	36	29	24	34	28	24	33	27	23	21																			

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

	0°	45°	90°
0°	16749	16749	16749
5°	16561	16540	16651
10°	16365	16345	16572
15°	16102	16122	16467
20°	15780	15860	16309
25°	15375	15545	16149
30°	14848	15206	15988
35°	14226	14849	15852
40°	13497	14441	15719
45°	12653	13999	15546
50°	11738	13549	15336
55°	10637	13005	14972
60°	9510	12370	14230
65°	8290	11572	12999
70°	6976	10569	11666
75°	5640	9408	10784
80°	4021	8460	10765
85°	2239	8335	12175



TEST NUMBER: P828153

CATALOG NUMBER: OHB-18HE-MFL-UNV-L940-CD-UPL12

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	475.1	3.0
10°-20°	1363.0	8.5
20°-30°	2061.3	12.8
30°-40°	2474.6	15.4
40°-50°	2555.8	15.9
50°-60°	2299.4	14.3
60°-70°	1732.1	10.8
70°-80°	1045.9	6.5
80°-90°	514.3	3.2
90°-100°	318.8	2.0
100°-110°	482.8	3.0
110°-120°	381.3	2.4
120°-130°	189.0	1.2
130°-140°	95.6	0.6
140°-150°	53.6	0.3
150°-160°	29.0	0.2
160°-170°	13.1	0.1
170°-180°	4.0	0.0
0°-30°	3899.3	24.2
0°-40°	6373.9	39.6
0°-60°	11229.1	69.8
0°-90°	14521.5	90.3
90°-120°	1182.8	7.4
90°-150°	1521.0	9.5
90°-180°	1567.0	9.7
0°-180°	16088.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5014	5014	5014	5014	5014	
5°	4982	4996	4989	5009	5003	473
15°	4781	4804	4826	4867	4872	1348
25°	4366	4414	4476	4546	4558	2008
35°	3733	3820	3977	4097	4122	2334
45°	2946	3095	3354	3536	3574	2275
55°	2087	2303	2653	2853	2887	1871
65°	1274	1534	1878	1971	1949	1265
75°	600	861	1087	1115	1104	640
85°	125	330	545	620	631	145
90°	3	144	333	420	439	10
95°	28	138	308	398	424	77
105°	458	495	514	445	431	434
115°	323	341	397	423	423	323
125°	163	173	213	233	238	151
135°	97	102	120	140	145	77
145°	78	78	80	91	95	49
155°	64	66	66	66	67	28
165°	45	45	46	46	46	13
175°	41	41	41	41	41	4
180°	40	40	40	40	40	



TEST NUMBER: P828153

CATALOG NUMBER: OHB-18HE-MFL-UNV-L940-CD-UPL12

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5013.9	5013.9	5013.9	5013.9	5013.9
2.5°	4999.1	5011.5	5004.1	5020.0	5018.8
5°	4982.0	4995.5	4989.4	5009.0	5002.9
7.5°	4952.5	4967.2	4966.0	4988.1	4985.7
10°	4909.6	4925.6	4930.4	4959.9	4959.9
12.5°	4850.7	4871.6	4883.8	4919.4	4920.6
15°	4780.7	4804.0	4826.1	4866.6	4871.6
17.5°	4696.0	4725.5	4756.2	4802.8	4809.0
20°	4600.4	4633.5	4675.2	4724.3	4731.7
22.5°	4489.9	4529.2	4583.2	4640.8	4649.4
25°	4366.0	4413.8	4476.4	4546.4	4557.5
27.5°	4224.9	4280.1	4364.8	4443.3	4453.1
30°	4071.5	4136.6	4242.0	4335.3	4351.3
32.5°	3909.5	3984.4	4114.5	4218.7	4240.8
35°	3732.8	3819.9	3977.0	4097.3	4121.8
37.5°	3558.5	3654.3	3832.2	3969.6	3999.1
40°	3354.8	3473.9	3677.6	3829.7	3865.4
42.5°	3163.5	3292.3	3523.0	3688.6	3723.0
45°	2946.3	3094.7	3353.6	3536.5	3574.5
47.5°	2742.6	2903.3	3190.4	3379.4	3418.7
50°	2527.8	2704.5	3016.2	3213.7	3254.2
52.5°	2313.1	2503.3	2835.8	3040.7	3078.8
55°	2087.3	2303.2	2652.9	2853.0	2887.3
57.5°	1877.5	2105.7	2465.2	2655.5	2676.3
60°	1670.0	1906.9	2273.8	2440.7	2448.0
62.5°	1467.6	1716.7	2077.5	2210.0	2200.2
65°	1273.7	1533.9	1877.5	1970.7	1948.6
67.5°	1087.2	1355.9	1672.6	1732.6	1703.2
70°	910.5	1182.9	1473.7	1504.4	1477.4
72.5°	754.7	1018.5	1272.5	1298.3	1278.6
75°	600.1	861.4	1087.2	1115.4	1104.4
77.5°	455.2	709.3	916.7	953.4	955.9
80°	327.6	570.6	768.2	825.8	833.2
82.5°	216.0	443.0	644.3	717.8	728.9
85°	125.2	330.1	544.8	619.7	630.7
87.5°	54.0	238.1	438.1	505.6	519.1
90°	2.6	144.5	332.6	419.6	439.1
92.5°	11.5	126.8	300.6	388.1	405.9
95°	27.9	137.5	308.0	397.8	424.5
97.5°	124.8	201.5	346.8	429.3	449.1
100°	247.4	322.0	390.2	451.3	465.5
102.5°	389.1	432.9	428.1	447.4	451.7
105°	458.1	494.6	514.0	445.3	431.0



TEST NUMBER: P828153

CATALOG NUMBER: OHB-18HE-MFL-UNV-L940-CD-UPL12

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	373.3	399.2	456.7	474.7	464.8
115°	322.8	341.3	397.3	422.9	422.6
117.5°	273.6	290.6	342.3	366.6	368.6
120°	231.0	246.1	292.0	313.0	318.0
122.5°	196.2	206.8	249.8	270.5	275.1
125°	162.8	172.6	212.9	233.3	237.8
127.5°	136.4	144.1	182.1	203.3	206.9
130°	119.9	124.6	155.9	177.6	181.4
132.5°	107.7	112.8	135.9	156.4	162.2
135°	97.3	102.3	120.5	139.8	144.8
137.5°	90.3	94.5	106.9	125.0	130.8
140°	84.6	88.4	96.3	111.9	116.8
142.5°	80.6	82.3	86.5	100.9	105.5
145°	77.5	78.0	80.1	90.8	95.3
147.5°	73.1	74.9	76.6	81.6	86.1
150°	70.5	72.6	72.3	74.3	78.1
152.5°	67.0	69.1	68.8	68.4	70.9
155°	64.4	66.5	66.2	65.8	67.0
157.5°	49.6	51.3	51.3	52.2	52.2
160°	47.8	48.7	49.6	49.6	49.6
162.5°	46.1	47.0	47.0	47.8	47.8
165°	45.2	45.2	46.1	46.1	46.1
167.5°	43.5	43.5	44.3	44.3	44.3
170°	42.6	42.6	42.6	43.5	43.5
172.5°	41.7	41.7	41.7	41.7	41.7
175°	40.9	40.9	40.9	40.9	40.9
177.5°	40.0	40.9	40.9	40.9	40.9
180°	40.0	40.0	40.0	40.0	40.0



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	460.7	498.0	537.2	481.4	431.9
110°	422.5	459.2	506.4	505.1	466.9



(END OF REPORT)