

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: P826326

Luminaire Tested: **OHB-15HE-MCL-UNV-L830-CD-UPL24**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P826326  
REPORT IS A COMBINATION OF REPORTS P826180 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: OHB-15HE-MCL-UNV-L830-CD-UPL24  
Description:  
Light Source: -  
Ballast/Driver: -

**Summary**

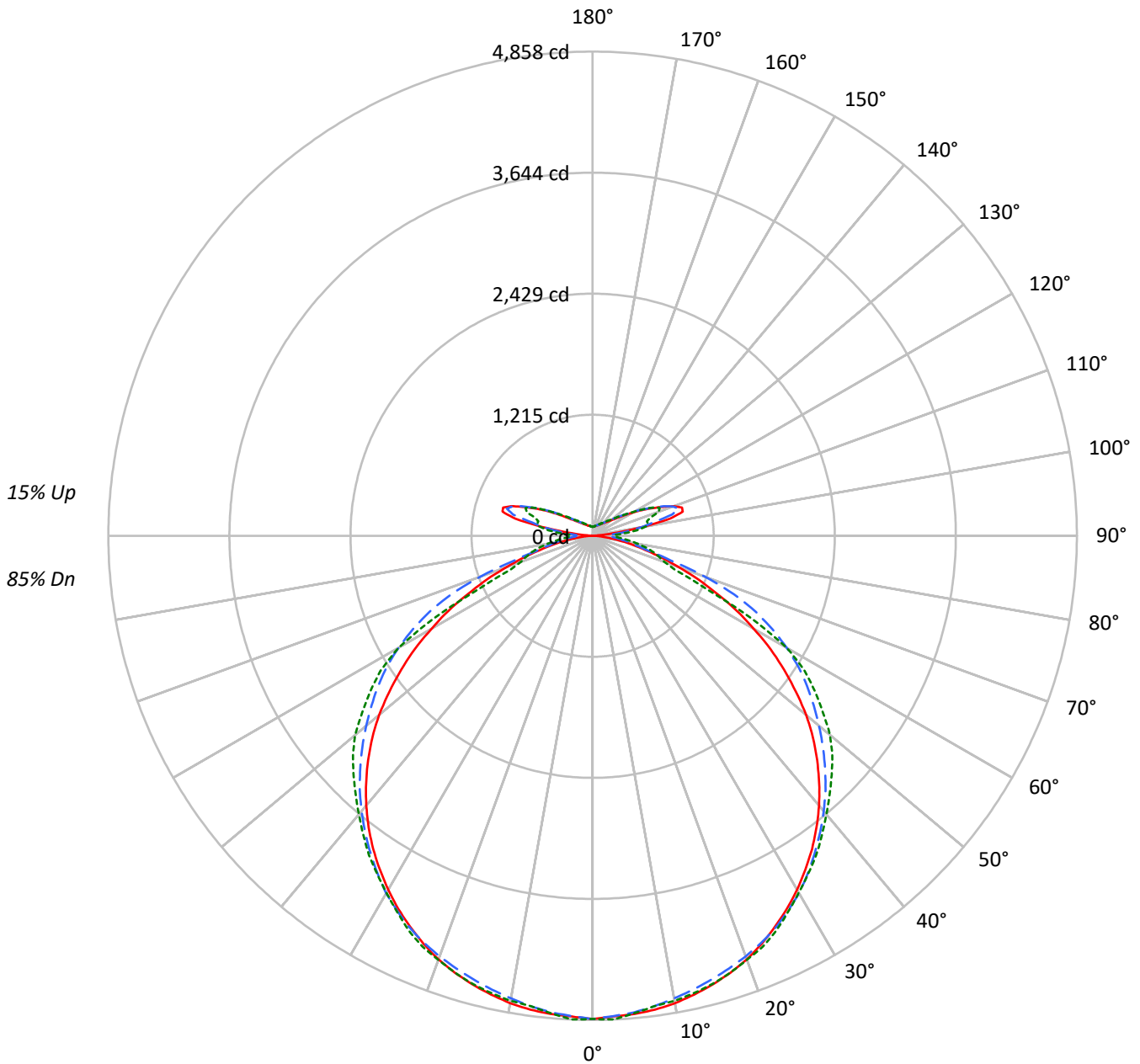
Lumens per Lamp: N/A  
Luminaire Lumens: 15954.5 lumens  
Efficiency: N/A  
Efficacy: 163.8 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 1.93' x L: 1.67' x H: 0.17')  
CIE Type: Semi-Direct

Input Watts (W): 97.4  
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

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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	115	115	115	115	111	111	111	111	103	103	103	95	95	95	88	88	88	85																			
1	106	101	97	93	101	97	94	90	90	88	85	84	82	80	78	76	75	72																			
2	96	88	82	76	92	85	79	74	79	75	70	74	70	67	69	66	63	60																			
3	88	78	70	64	84	75	68	62	70	64	59	65	60	56	61	57	54	51																			
4	80	69	60	54	77	67	59	53	62	56	50	58	53	48	54	50	46	43																			
5	74	61	53	46	71	59	51	45	56	49	44	52	46	42	49	44	40	38																			
6	68	55	47	40	65	54	45	40	50	43	38	47	41	37	44	39	35	33																			
7	63	50	41	36	61	48	41	35	46	39	34	43	37	32	40	35	31	29																			
8	59	46	37	32	56	44	36	31	42	35	30	39	33	29	37	32	28	26																			
9	55	42	34	28	53	41	33	28	38	32	27	36	30	26	34	29	25	23																			
10	51	38	31	26	49	37	30	25	35	29	24	33	28	24	32	27	23	21																			

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

	0°	45°	90°
0°	16195	16195	16195
5°	16011	15911	16002
10°	15874	15623	15833
15°	15695	15396	15736
20°	15515	15235	15605
25°	15246	15072	15476
30°	14957	14843	15194
35°	14624	14507	15043
40°	14213	14159	14834
45°	13676	13762	14749
50°	12981	13313	14647
55°	11942	12861	14118
60°	10622	12229	13071
65°	8951	11130	8300
70°	7036	8577	6034
75°	5086	4998	6146
80°	3330	4037	5904
85°	1667	3507	5602



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	457.1	2.9
10°-20°	1310.8	8.2
20°-30°	2002.0	12.5
30°-40°	2429.1	15.2
40°-50°	2545.9	16.0
50°-60°	2307.0	14.5
60°-70°	1546.7	9.7
70°-80°	694.6	4.4
80°-90°	257.8	1.6
90°-100°	291.6	1.8
100°-110°	784.8	4.9
110°-120°	660.4	4.1
120°-130°	318.1	2.0
130°-140°	161.0	1.0
140°-150°	94.0	0.6
150°-160°	55.5	0.3
160°-170°	29.2	0.2
170°-180°	8.9	0.1
0°-30°	3769.9	23.6
0°-40°	6199.0	38.9
0°-60°	11051.9	69.3
0°-90°	13551.0	84.9
90°-120°	1736.9	10.9
90°-150°	2310.0	14.5
90°-180°	2404.0	15.1
0°-180°	15954.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4848	4848	4848	4848	4848	
5°	4816	4833	4800	4814	4808	458
15°	4660	4642	4609	4650	4655	1316
25°	4329	4310	4340	4380	4368	1996
35°	3837	3846	3886	3927	3911	2398
45°	3184	3236	3297	3381	3391	2453
55°	2343	2456	2624	2729	2723	2092
65°	1375	1590	1806	1524	1244	1370
75°	541	785	578	591	629	591
85°	93	179	229	277	290	114
90°	5	91	162	206	220	9
95°	50	140	241	311	342	154
105°	936	939	825	608	564	889
115°	650	659	671	675	670	655
125°	320	337	350	352	350	300
135°	192	197	204	210	212	152
145°	141	146	148	150	152	90
155°	115	118	119	120	120	54
165°	101	102	103	103	103	29
175°	92	92	92	92	92	9
180°	91	91	91	91	91	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4847.9	4847.9	4847.9	4847.9	4847.9
2.5°	4828.3	4848.7	4823.4	4850.7	4857.8
5°	4816.4	4833.2	4799.5	4814.3	4808.0
7.5°	4794.7	4800.3	4760.4	4772.3	4759.6
10°	4762.4	4759.6	4712.6	4735.8	4738.6
12.5°	4714.8	4706.4	4664.3	4699.3	4700.0
15°	4660.0	4641.9	4608.9	4649.5	4655.2
17.5°	4596.9	4573.1	4551.4	4604.0	4595.5
20°	4523.3	4495.3	4491.1	4548.6	4527.6
22.5°	4432.2	4410.6	4420.3	4475.0	4461.7
25°	4329.2	4310.2	4340.4	4380.4	4367.7
27.5°	4220.5	4209.4	4243.7	4274.5	4250.0
30°	4101.4	4095.1	4140.7	4165.9	4135.0
32.5°	3971.7	3973.8	4017.3	4051.6	4022.9
35°	3837.1	3846.3	3885.5	3926.9	3911.4
37.5°	3689.2	3709.6	3748.8	3795.7	3779.6
40°	3532.9	3562.4	3605.8	3662.6	3647.9
42.5°	3364.0	3401.1	3457.2	3520.3	3518.9
45°	3184.5	3236.4	3296.7	3380.8	3391.3
47.5°	2998.1	3056.2	3132.6	3244.8	3260.9
50°	2795.5	2868.3	2963.7	3098.3	3108.1
52.5°	2569.7	2669.3	2795.5	2924.5	2912.5
55°	2343.3	2456.2	2623.7	2728.9	2722.6
57.5°	2117.7	2244.5	2447.8	2522.8	2522.1
60°	1865.3	2025.8	2248.0	2304.8	2248.7
62.5°	1631.8	1804.3	2034.9	1993.5	1801.5
65°	1375.3	1590.5	1805.7	1523.9	1244.2
67.5°	1147.5	1371.8	1533.7	1043.7	893.7
70°	918.3	1165.7	1195.9	774.6	764.1
72.5°	715.0	978.6	825.0	663.1	696.8
75°	541.1	785.1	577.6	590.9	629.4
77.5°	394.6	602.8	449.4	518.0	549.6
80°	271.3	426.9	366.6	435.3	457.0
82.5°	170.3	281.8	293.7	350.4	372.9
85°	93.2	178.8	229.2	276.8	290.2
87.5°	38.5	107.9	175.2	213.8	225.0
90°	5.4	91.2	162.2	206.3	219.8
92.5°	16.6	87.5	163.8	214.8	231.8
95°	50.1	140.4	241.4	311.0	341.7
97.5°	251.7	300.2	359.3	434.7	468.2
100°	515.8	569.9	496.9	534.0	544.5
102.5°	796.6	808.7	622.7	573.0	567.6
105°	936.1	939.2	825.3	607.7	564.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	756.8	772.8	772.0	756.9	728.5
115°	649.5	658.8	670.7	674.6	670.4
117.5°	556.5	558.8	573.0	576.4	578.7
120°	461.6	472.5	490.0	488.8	484.0
122.5°	388.0	399.2	412.5	414.2	409.3
125°	319.5	336.9	350.4	351.6	349.5
127.5°	271.7	283.8	298.8	301.8	301.6
130°	237.3	245.5	258.2	262.0	263.0
132.5°	212.0	219.1	227.8	234.3	233.4
135°	192.4	196.8	204.1	209.5	212.0
137.5°	177.3	180.1	185.6	192.0	192.7
140°	163.3	167.0	171.0	175.7	177.3
142.5°	150.6	154.9	158.0	161.9	162.7
145°	141.3	145.6	148.4	150.1	151.7
147.5°	133.5	137.3	139.1	141.0	141.7
150°	127.0	128.9	131.7	132.6	133.5
152.5°	120.5	122.4	125.2	126.1	126.1
155°	114.9	117.5	119.4	120.3	119.6
157.5°	110.3	112.9	114.7	115.7	115.7
160°	106.5	108.2	110.1	111.0	111.0
162.5°	103.6	104.5	105.4	106.4	106.4
165°	100.8	101.7	102.6	102.6	102.6
167.5°	98.0	98.6	98.9	99.8	99.8
170°	95.2	96.1	96.1	96.3	96.3
172.5°	93.3	94.3	94.3	93.5	94.5
175°	91.5	92.4	91.7	91.9	91.9
177.5°	92.1	91.5	90.7	90.1	89.3
180°	90.7	90.7	90.7	90.7	90.7



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	940.6	954.1	902.5	719.7	607.7
110°	868.7	884.1	859.7	794.4	704.6



(END OF REPORT)