

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: P828488

Luminaire Tested: **OHB-24HE-MCL-UNV-L950-CD-UPL36**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P828488  
REPORT IS A COMBINATION OF REPORTS P826288 AND G3-2310-221-2  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHB-24HE-MCL-UNV-L950-CD-UPL36  
Description:  
Light Source: -  
Ballast/Driver: -

**Summary**

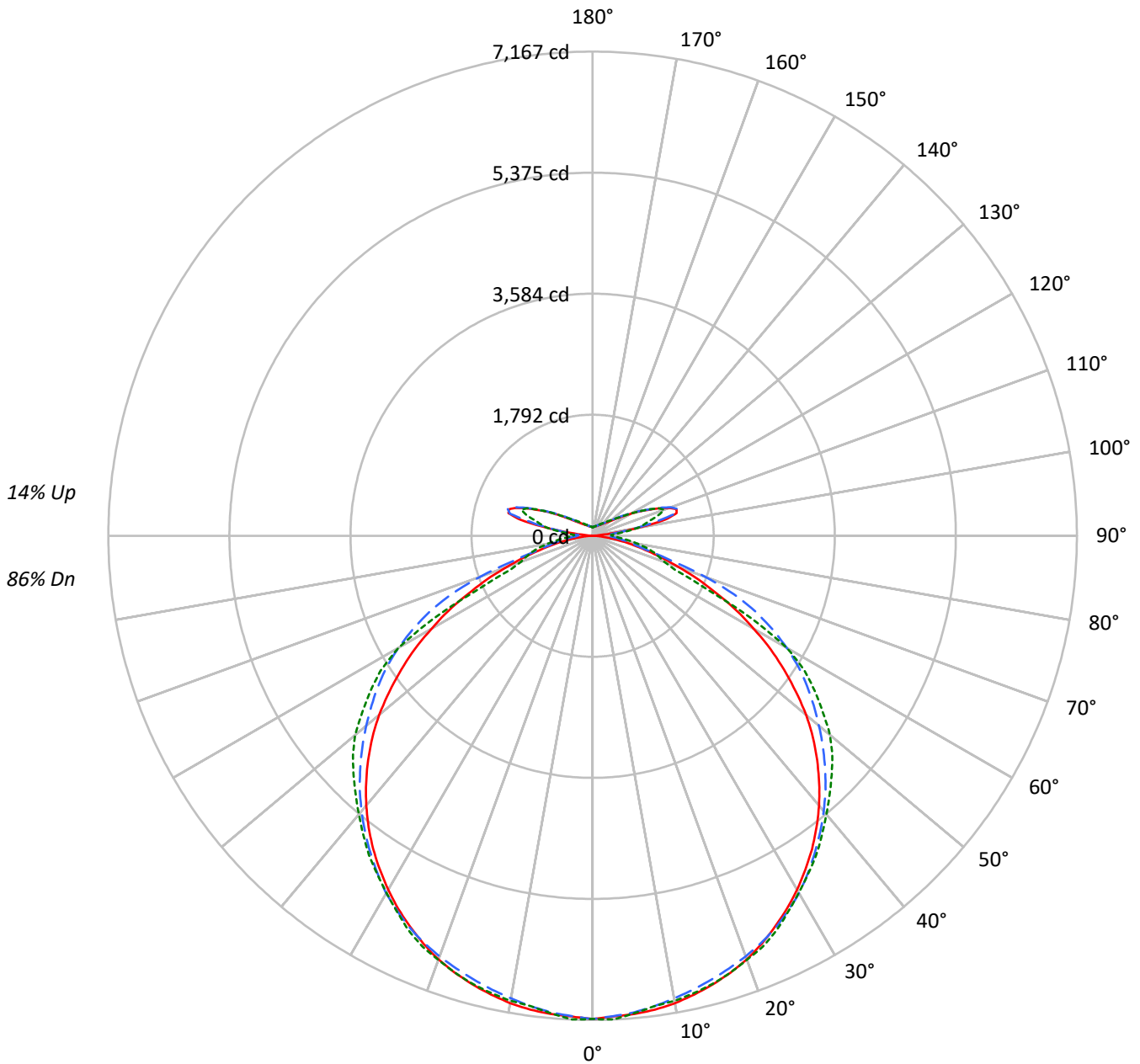
Lumens per Lamp: N/A  
Luminaire Lumens: 23329.9 lumens  
Efficiency: N/A  
Efficacy: 146.9 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 1.93' x L: 1.8' x H: 0.17')  
CIE Type: Semi-Direct

Input Watts (W): 158.8  
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	116	116	116	116	111	111	111	111	103	103	103	96	96	96	89	89	89	86																			
1	106	101	97	94	102	98	94	91	91	88	85	85	82	80	79	77	75	72																			
2	96	89	82	77	93	85	80	75	80	75	71	74	70	67	69	66	63	61																			
3	88	78	70	64	84	75	68	62	70	64	59	66	61	57	61	57	54	51																			
4	81	69	61	54	77	67	59	53	62	56	51	58	53	49	55	50	46	44																			
5	74	62	53	46	71	60	52	46	56	49	44	52	47	42	49	44	40	38																			
6	68	55	47	40	65	54	46	40	50	43	38	47	41	37	45	39	35	33																			
7	63	50	42	36	61	49	41	35	46	39	34	43	37	33	41	35	31	29																			
8	59	46	37	32	56	44	37	31	42	35	30	40	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	34	28	24	32	27	23	21																			

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

	0°	45°	90°
0°	22122	22122	22122
5°	21885	21745	21859
10°	21713	21361	21628
15°	21482	21060	21495
20°	21250	20850	21317
25°	20895	20637	21142
30°	20514	20334	20755
35°	20074	19884	20549
40°	19528	19419	20264
45°	18809	18887	20149
50°	17873	18284	20009
55°	16466	17681	19286
60°	14670	16831	17856
65°	12389	15338	11339
70°	9767	11841	8241
75°	7091	6918	8397
80°	4674	5611	8066
85°	2370	4907	7652



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	674.4	2.9
10°-20°	1933.8	8.3
20°-30°	2953.6	12.7
30°-40°	3583.7	15.4
40°-50°	3756.1	16.1
50°-60°	3403.6	14.6
60°-70°	2282.0	9.8
70°-80°	1024.7	4.4
80°-90°	378.5	1.6
90°-100°	351.1	1.5
100°-110°	1136.2	4.9
110°-120°	923.1	4.0
120°-130°	439.0	1.9
130°-140°	224.9	1.0
140°-150°	132.4	0.6
150°-160°	78.7	0.3
160°-170°	41.5	0.2
170°-180°	12.7	0.1
0°-30°	5561.8	23.8
0°-40°	9145.5	39.2
0°-60°	16305.1	69.9
0°-90°	19990.3	85.7
90°-120°	2410.5	10.3
90°-150°	3206.7	13.7
90°-180°	3340.0	14.3
0°-180°	23329.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7152	7152	7152	7152	7152	
5°	7106	7130	7081	7103	7093	676
15°	6875	6848	6800	6860	6868	1941
25°	6387	6359	6404	6462	6444	2944
35°	5661	5674	5732	5793	5771	3538
45°	4698	4775	4864	4988	5003	3619
55°	3457	3624	3871	4026	4017	3086
65°	2029	2346	2664	2248	1836	2022
75°	798	1158	852	872	929	873
85°	138	264	338	408	428	168
90°	8	130	230	282	293	13
95°	55	163	263	328	346	202
105°	1288	1305	1264	968	884	1225
115°	904	896	920	935	928	913
125°	448	465	486	481	473	422
135°	270	277	285	293	295	214
145°	199	204	209	212	214	127
155°	163	167	170	171	170	76
165°	143	144	145	146	147	41
175°	131	131	131	130	131	13
180°	129	129	129	129	129	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7152.2	7152.2	7152.2	7152.2	<i>7152.2</i>
2.5°	<i>7123.3</i>	<i>7153.3</i>	<i>7116.1</i>	<i>7156.4</i>	<i>7166.7</i>
5°	7105.7	7130.5	7080.9	7102.6	<i>7093.3</i>
7.5°	7073.6	7081.9	7022.9	7040.6	<i>7022.0</i>
10°	7026.1	7022.0	6952.7	6986.8	<i>6990.9</i>
12.5°	6955.7	6943.4	6881.3	6933.0	<i>6934.0</i>
15°	6875.1	6848.2	6799.6	6859.6	<i>6867.8</i>
17.5°	6782.0	6746.9	6714.8	6792.4	<i>6779.9</i>
20°	6673.4	6632.0	6625.9	6710.6	<i>6679.6</i>
22.5°	6539.0	6506.9	6521.4	6602.0	<i>6582.4</i>
25°	6386.9	6359.0	6403.5	6462.5	<i>6443.9</i>
27.5°	6226.7	6210.1	6260.8	6306.3	<i>6270.1</i>
30°	6050.9	6041.6	6108.8	6146.0	<i>6100.5</i>
32.5°	5859.5	5862.7	5926.7	5977.4	<i>5935.0</i>
35°	5661.0	5674.4	5732.3	5793.4	<i>5770.6</i>
37.5°	5442.8	5472.8	5530.7	5600.0	<i>5576.2</i>
40°	5212.1	5255.6	5319.7	5403.5	<i>5381.8</i>
42.5°	4963.0	5017.7	5100.5	5193.5	<i>5191.5</i>
45°	4698.2	4774.7	4863.7	4987.7	<i>5003.3</i>
47.5°	4423.1	4508.9	4621.6	4787.2	<i>4810.9</i>
50°	4124.2	4231.8	4372.4	4571.0	<i>4585.4</i>
52.5°	3791.2	3938.1	4124.2	4314.5	<i>4297.0</i>
55°	3457.2	3623.7	3870.9	4026.0	<i>4016.7</i>
57.5°	3124.2	3311.4	3611.3	3721.9	<i>3720.9</i>
60°	2751.9	2988.7	3316.6	3400.3	<i>3317.5</i>
62.5°	2407.5	2661.9	3002.2	2941.2	<i>2657.8</i>
65°	2029.0	2346.5	2664.0	2248.3	<i>1835.7</i>
67.5°	1692.9	2023.9	2262.7	1539.9	<i>1318.5</i>
70°	1354.8	1719.8	1764.3	1142.7	<i>1127.2</i>
72.5°	1054.8	1443.7	1217.2	978.3	<i>1027.9</i>
75°	798.4	1158.3	852.1	871.8	<i>928.7</i>
77.5°	582.3	889.4	662.9	764.2	<i>810.8</i>
80°	400.2	629.8	540.9	642.2	<i>674.3</i>
82.5°	251.3	415.8	433.3	517.1	<i>550.2</i>
85°	137.5	263.7	338.1	408.5	<i>428.1</i>
87.5°	56.9	159.3	258.6	315.4	<i>332.0</i>
90°	8.0	130.5	229.5	281.9	<i>293.1</i>
92.5°	22.8	119.4	209.6	260.3	<i>272.7</i>
95°	54.9	162.6	263.4	328.4	<i>346.5</i>
97.5°	327.3	393.0	403.8	483.6	<i>508.5</i>
100°	701.3	752.6	639.3	661.3	<i>681.7</i>
102.5°	1097.9	1137.5	946.7	809.9	<i>786.9</i>
105°	1288.3	1305.4	1264.0	967.8	<i>883.9</i>



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1059.2	1069.2	1080.2	1086.0	1060.3
115°	903.8	895.8	920.3	934.7	928.0
117.5°	774.2	767.6	790.1	792.8	785.4
120°	652.5	653.6	675.7	668.7	662.8
122.5°	542.1	554.3	571.7	568.2	557.9
125°	448.0	464.7	485.5	480.8	473.2
127.5°	386.5	391.7	412.1	410.9	411.9
130°	333.4	341.4	356.2	362.0	360.3
132.5°	298.0	306.0	317.8	324.5	327.1
135°	270.1	277.3	285.3	293.0	294.9
137.5°	248.6	253.8	259.0	268.5	270.4
140°	229.4	234.7	238.8	246.5	247.5
142.5°	212.8	219.0	222.3	228.1	229.1
145°	198.8	204.2	208.6	212.2	214.1
147.5°	189.5	192.9	197.3	198.1	200.1
150°	179.9	182.5	186.0	187.7	188.6
152.5°	171.2	173.8	177.3	178.1	179.0
155°	163.4	167.0	169.6	171.4	170.3
157.5°	156.4	160.1	162.7	163.5	163.5
160°	151.2	154.0	156.6	156.6	157.5
162.5°	147.0	148.8	150.5	151.4	152.2
165°	142.7	144.4	145.3	146.2	147.0
167.5°	139.2	141.1	140.9	141.8	141.8
170°	135.7	136.6	137.5	136.4	137.3
172.5°	133.1	134.0	134.9	133.8	133.8
175°	131.4	131.4	131.2	130.2	131.0
177.5°	130.7	130.5	129.5	128.4	128.2
180°	128.6	128.6	128.6	128.6	128.6



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	1301.5	1318.6	1318.3	1177.4	1028.2
110°	1202.5	1224.2	1230.1	1189.8	1123.2



(END OF REPORT)