

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: P828041

Luminaire Tested: **OHBL-24HE-NL-UNV-L935-CD-UPL36**

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P828041
REPORT IS A COMBINATION OF REPORTS P826303 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: OHBL-24HE-NL-UNV-L935-CD-UPL36
Description:
Light Source: -
Ballast/Driver: -

Summary

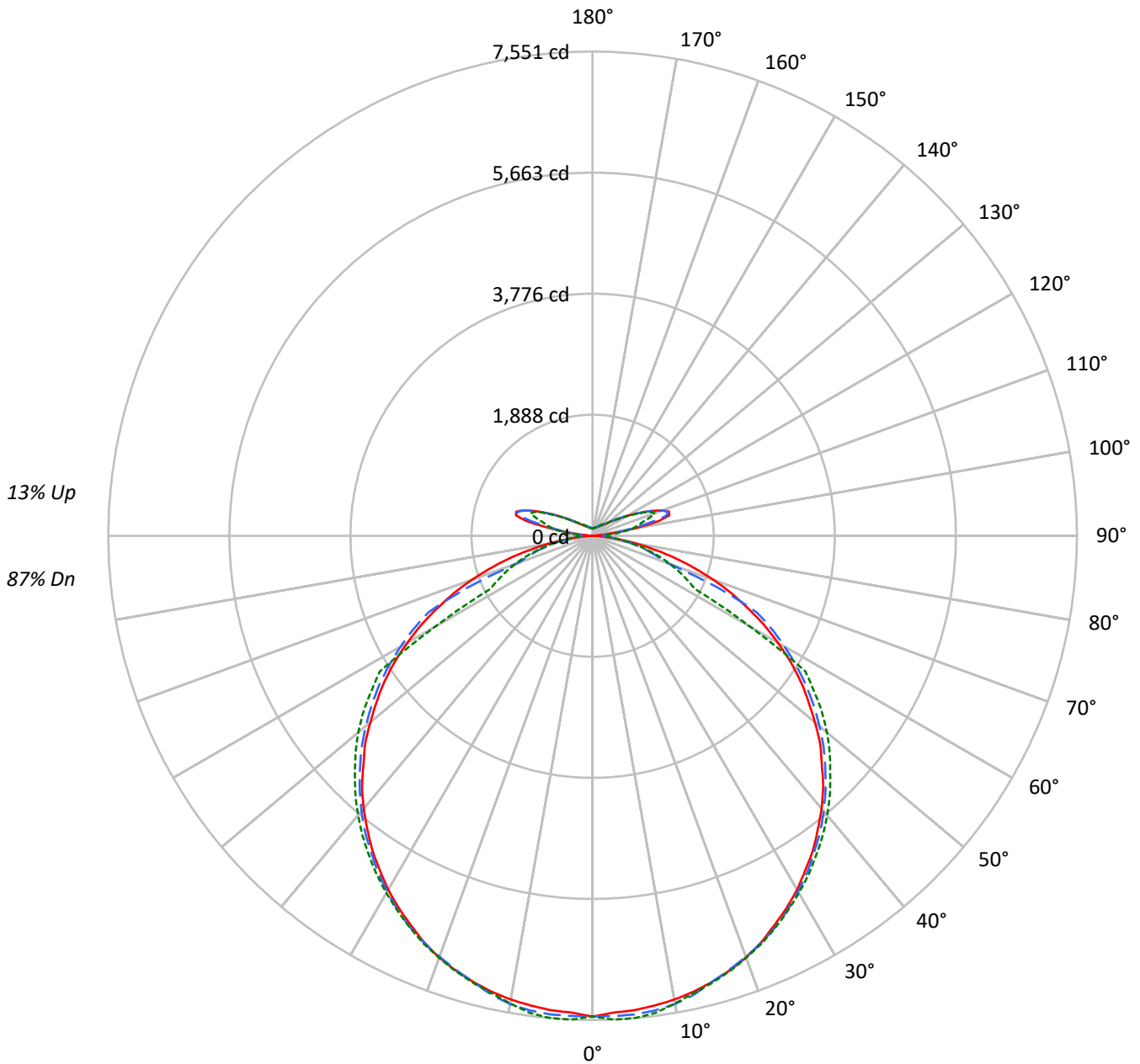
Lumens per Lamp: N/A
Luminaire Lumens: 24031.8 lumens
Efficiency: N/A
Efficacy: 148.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 161.8
Input Voltage (V): NR
Input Current (A_{in}): 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	112	112	112	112	104	104	104	97	97	97	90	90	90	87																			
1	106	102	98	94	102	98	95	91	92	89	86	86	83	81	80	78	77	74																			
2	97	89	83	77	93	86	80	75	81	76	72	75	71	68	71	68	65	62																			
3	88	78	71	64	85	76	69	63	71	65	60	67	62	58	63	59	55	52																			
4	81	69	61	55	78	67	59	53	63	57	51	59	54	49	56	51	47	45																			
5	74	62	53	47	71	60	52	46	57	50	44	53	47	43	50	45	41	39																			
6	69	56	47	41	66	54	46	40	51	44	39	48	42	37	45	40	36	34																			
7	64	50	42	36	61	49	41	35	46	39	34	44	38	33	41	36	32	30																			
8	59	46	38	32	57	45	37	31	42	35	31	40	34	30	38	33	29	27																			
9	55	42	34	29	53	41	33	28	39	32	27	37	31	27	35	30	26	24																			
10	52	39	31	26	50	38	30	26	36	29	25	34	28	24	33	27	23	22																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11855	11855	11855
5°	11733	11836	11958
10°	11679	11784	11835
15°	11618	11608	11732
20°	11542	11514	11673
25°	11399	11444	11620
30°	11279	11321	11569
35°	11132	11174	11524
40°	10954	11037	11490
45°	10705	10842	11418
50°	10438	10622	11373
55°	10114	10343	11180
60°	9625	9928	8637
65°	8920	9395	5753
70°	8010	4837	5500
75°	6670	4381	5128
80°	4709	3679	4490
85°	1911	2970	3885



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	712.2	3.0
10°-20°	2039.2	8.5
20°-30°	3102.7	12.9
30°-40°	3772.5	15.7
40°-50°	3966.6	16.5
50°-60°	3622.0	15.1
60°-70°	2321.9	9.7
70°-80°	1096.8	4.6
80°-90°	310.5	1.3
90°-100°	309.8	1.3
100°-110°	1060.4	4.4
110°-120°	865.5	3.6
120°-130°	406.7	1.7
130°-140°	205.9	0.9
140°-150°	120.4	0.5
150°-160°	70.6	0.3
160°-170°	36.7	0.2
170°-180°	11.2	0.0
0°-30°	5854.1	24.4
0°-40°	9626.6	40.1
0°-60°	17215.2	71.6
0°-90°	20944.4	87.2
90°-120°	2235.8	9.3
90°-150°	2968.8	12.4
90°-180°	3087.0	12.8
0°-180°	24031.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7496	7496	7496	7496	7496	
5°	7426	7456	7494	7534	7550	706
15°	7202	7256	7200	7211	7216	2033
25°	6702	6712	6736	6746	6741	3092
35°	5990	5955	6023	6097	6080	3743
45°	5052	5043	5129	5250	5240	3905
55°	3959	3929	4062	4197	4208	3531
65°	2668	2668	2823	1619	1624	2645
75°	1318	1343	872	918	922	1389
85°	172	218	272	295	279	255
90°	7	114	174	203	202	12
95°	56	142	224	292	305	194
105°	1237	1243	1176	880	796	1177
115°	865	856	866	868	852	872
125°	422	438	448	440	432	398
135°	250	256	262	265	266	198
145°	182	186	190	192	193	116
155°	147	149	152	153	153	69
165°	126	128	128	129	130	36
175°	115	115	116	116	117	11
180°	113	113	113	113	113	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7496.2	7496.2	7496.2	7496.2	7496.2
2.5°	7443.7	7468.7	7496.2	7531.8	7551.4
5°	7426.5	7455.5	7493.7	7534.4	7550.2
7.5°	7389.8	7430.4	7467.3	7496.2	7505.5
10°	7343.7	7392.4	7413.4	7410.8	7404.3
12.5°	7281.8	7333.2	7326.7	7296.3	7301.6
15°	7201.6	7255.5	7200.3	7210.8	7216.1
17.5°	7106.9	7159.6	7095.1	7116.1	7117.5
20°	6996.5	7035.9	6985.9	7003.0	7003.0
22.5°	6863.6	6891.2	6870.2	6882.0	6884.7
25°	6701.8	6712.2	6735.9	6746.5	6741.2
27.5°	6546.7	6533.4	6579.5	6604.4	6591.2
30°	6374.3	6353.2	6407.1	6447.9	6432.2
32.5°	6176.9	6163.8	6225.7	6274.3	6265.1
35°	5990.2	5954.7	6023.0	6096.7	6079.6
37.5°	5769.2	5748.2	5825.7	5903.4	5894.3
40°	5553.4	5517.9	5606.1	5698.2	5688.9
42.5°	5322.0	5279.8	5375.9	5486.5	5475.9
45°	5052.2	5043.1	5128.6	5249.6	5240.4
47.5°	4813.0	4766.9	4886.5	5003.7	5014.3
50°	4523.5	4506.5	4615.7	4757.8	4768.2
52.5°	4240.8	4228.9	4343.2	4486.8	4505.1
55°	3959.2	3929.0	4061.8	4197.3	4207.9
57.5°	3658.1	3626.5	3762.0	3909.3	3931.6
60°	3335.8	3305.5	3454.1	3591.0	2855.7
62.5°	3013.5	2992.4	3147.8	2229.6	1796.9
65°	2667.6	2667.6	2822.7	1619.2	1624.5
67.5°	2344.0	2323.0	2104.7	1454.8	1454.8
70°	1996.8	2004.7	1212.7	1274.7	1275.9
72.5°	1648.2	1677.1	1047.1	1097.0	1099.6
75°	1318.0	1343.0	872.1	918.2	922.1
77.5°	968.2	744.5	701.0	736.7	737.9
80°	680.0	469.6	536.8	570.8	566.9
82.5°	397.2	328.8	393.2	418.3	416.9
85°	172.2	218.3	272.2	294.7	278.8
87.5°	55.2	135.5	169.6	182.8	181.4
90°	6.7	114.5	173.5	203.3	201.7
92.5°	20.8	107.8	169.4	211.6	217.8
95°	55.6	141.5	224.4	292.1	305.4
97.5°	314.3	362.6	352.7	439.6	462.2
100°	671.8	708.9	573.3	602.4	620.4
102.5°	1054.9	1080.9	864.9	737.1	713.4
105°	1237.4	1242.8	1176.0	880.2	795.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1016.2	1021.4	1016.2	1008.9	972.9
115°	864.9	855.8	866.4	868.3	852.1
117.5°	734.2	725.8	732.5	729.2	720.0
120°	617.5	617.5	625.8	614.2	607.5
122.5°	511.7	523.3	529.2	520.8	510.0
125°	422.5	437.5	447.5	440.0	431.7
127.5°	362.5	367.5	379.2	375.0	375.0
130°	311.7	318.3	327.5	329.2	327.5
132.5°	276.7	283.3	291.7	294.2	296.7
135°	250.0	255.8	262.5	265.0	265.8
137.5°	228.3	233.3	238.3	242.5	243.3
140°	210.0	215.0	220.0	223.3	223.3
142.5°	195.0	200.0	204.2	206.7	206.7
145°	181.7	185.8	190.0	192.5	193.3
147.5°	171.7	175.0	179.2	180.0	180.8
150°	162.5	165.0	168.3	170.0	170.8
152.5°	154.2	156.7	160.0	160.8	161.7
155°	146.7	149.2	151.7	153.3	153.3
157.5°	140.0	142.5	145.0	145.8	145.8
160°	135.0	136.7	139.2	139.2	140.0
162.5°	130.0	131.7	133.3	134.2	135.0
165°	125.8	127.5	128.3	129.2	130.0
167.5°	122.5	123.3	124.2	125.0	125.0
170°	119.2	120.0	120.8	120.8	121.7
172.5°	116.7	117.5	118.3	118.3	118.3
175°	115.0	115.0	115.8	115.8	116.7
177.5°	113.3	114.2	114.2	114.2	115.0
180°	113.3	113.3	113.3	113.3	113.3



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	1249.1	1258.1	1233.4	1081.8	928.9
110°	1154.6	1169.3	1154.1	1101.4	1026.2



(END OF REPORT)