

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: P828052

Luminaire Tested: **OHBL-24SE-MFL-UNV-L935-CD-UPL24**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P828052
REPORT IS A COMBINATION OF REPORTS P826247 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-24SE-MFL-UNV-L935-CD-UPL24
Description:
Light Source: -
Ballast/Driver: -

Summary

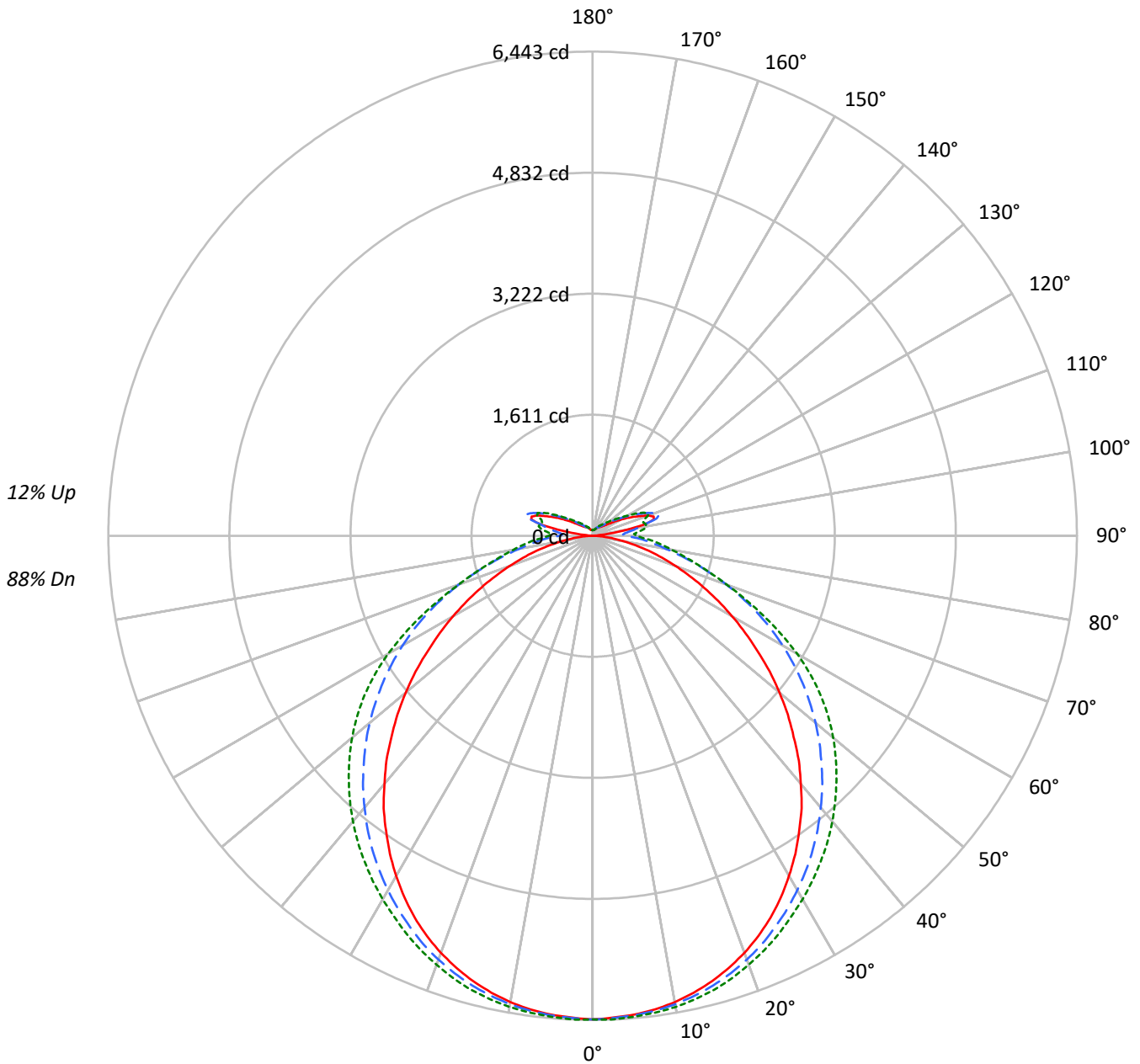
Lumens per Lamp: N/A
Luminaire Lumens: 21280.3 lumens
Efficiency: N/A
Efficacy: 136.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 155.4
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

TEST NUMBER: P828052

CATALOG NUMBER: OHBL-24SE-MFL-UNV-L935-CD-UPL24

Luminous Intensity Polar Plot





TEST NUMBER: P828052

CATALOG NUMBER: OHBL-24SE-MFL-UNV-L935-CD-UPL24

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					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	50	30	10	0		
RCR																										
0	116	116	116	116	112	112	112	112	104	104	104	97	97	97	91	91	91	88								
1	105	100	96	92	101	97	93	89	90	87	84	84	82	80	79	77	75	72								
2	96	87	80	75	92	84	78	73	79	74	69	74	70	66	69	66	63	60								
3	87	77	68	62	84	74	67	61	69	63	58	65	60	55	61	57	53	50								
4	80	68	59	52	77	66	58	51	62	55	49	58	52	47	54	49	45	43								
5	73	61	52	45	70	59	50	44	55	48	43	52	46	41	49	44	39	37								
6	68	54	46	39	65	53	45	39	50	43	37	47	41	36	44	39	35	32								
7	63	49	41	35	60	48	40	34	45	38	33	43	36	32	40	35	31	29								
8	58	45	36	31	56	44	36	30	41	34	29	39	33	28	37	32	28	26								
9	54	41	33	28	52	40	32	27	38	31	26	36	30	26	34	29	25	23								
10	51	38	30	25	49	37	30	25	35	28	24	33	27	23	32	26	23	21								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10993	10993	10993
5°	10870	10884	10969
10°	10741	10784	10958
15°	10569	10664	10929
20°	10357	10519	10866
25°	10092	10338	10804
30°	9745	10143	10743
35°	9338	9936	10702
40°	8859	9697	10669
45°	8305	9437	10616
50°	7704	9174	10546
55°	6982	8853	10384
60°	6242	8475	9974
65°	5441	7994	9236
70°	4579	7381	8448
75°	3702	6673	8034
80°	2640	6147	8416
85°	1469	6332	10551



TEST NUMBER: P828052

CATALOG NUMBER: OHBL-24SE-MFL-UNV-L935-CD-UPL24

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	609.9	2.9
10°-20°	1749.7	8.2
20°-30°	2646.1	12.4
30°-40°	3176.7	14.9
40°-50°	3281.0	15.4
50°-60°	2951.9	13.9
60°-70°	2223.6	10.4
70°-80°	1342.7	6.3
80°-90°	661.8	3.1
90°-100°	469.6	2.2
100°-110°	828.5	3.9
110°-120°	668.0	3.1
120°-130°	328.4	1.5
130°-140°	165.7	0.8
140°-150°	93.5	0.4
150°-160°	51.6	0.2
160°-170°	24.2	0.1
170°-180°	7.4	0.0
0°-30°	5005.7	23.5
0°-40°	8182.4	38.5
0°-60°	14415.2	67.7
0°-90°	18643.3	87.6
90°-120°	1966.2	9.2
90°-150°	2553.8	12.0
90°-180°	2637.0	12.4
0°-180°	21280.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6436	6436	6436	6436	6436	
5°	6396	6413	6405	6430	6422	608
15°	6137	6167	6196	6248	6254	1730
25°	5605	5666	5746	5836	5850	2578
35°	4792	4904	5105	5260	5291	2996
45°	3782	3973	4305	4540	4589	2920
55°	2680	2957	3406	3662	3707	2402
65°	1635	1969	2410	2530	2502	1624
75°	770	1106	1396	1432	1418	822
85°	161	424	699	796	810	186
90°	4	194	439	556	582	13
95°	52	204	443	571	610	144
105°	847	891	877	728	696	804
115°	589	619	690	724	726	594
125°	294	314	367	395	397	276
135°	178	184	209	234	242	140
145°	137	138	142	156	161	86
155°	112	116	116	115	117	50
165°	83	84	85	85	85	24
175°	75	76	76	77	77	7
180°	75	75	75	75	75	



TEST NUMBER: P828052

CATALOG NUMBER: OHBL-24SE-MFL-UNV-L935-CD-UPL24

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6436.5	6436.5	6436.5	6436.5	6436.5
2.5°	6417.6	6433.3	6423.9	6444.3	6442.8
5°	6395.5	6412.8	6405.0	6430.2	6422.3
7.5°	6357.8	6376.7	6375.1	6403.4	6400.2
10°	6302.6	6323.1	6329.4	6367.2	6367.2
12.5°	6227.0	6253.8	6269.5	6315.2	6316.8
15°	6137.2	6167.1	6195.5	6247.5	6253.8
17.5°	6028.5	6066.3	6105.7	6165.6	6173.4
20°	5905.7	5948.2	6001.8	6064.8	6074.2
22.5°	5763.8	5814.3	5883.6	5957.6	5968.7
25°	5604.8	5666.2	5746.5	5836.3	5850.5
27.5°	5423.6	5494.5	5603.2	5704.0	5716.6
30°	5226.7	5310.2	5445.7	5565.4	5585.8
32.5°	5018.8	5114.8	5281.8	5415.8	5444.1
35°	4791.9	4903.8	5105.4	5259.8	5291.2
37.5°	4568.2	4691.1	4919.5	5095.9	5133.8
40°	4306.8	4459.6	4721.0	4916.3	4962.1
42.5°	4061.0	4226.4	4522.6	4735.2	4779.3
45°	3782.2	3972.8	4305.2	4539.9	4588.8
47.5°	3520.7	3727.1	4095.7	4338.2	4388.7
50°	3245.0	3471.8	3872.0	4125.6	4177.6
52.5°	2969.3	3213.5	3640.4	3903.5	3952.3
55°	2679.5	2956.8	3405.7	3662.5	3706.6
57.5°	2410.2	2703.2	3164.7	3408.8	3435.7
60°	2143.9	2447.9	2918.9	3133.2	3142.7
62.5°	1884.0	2203.8	2666.9	2837.0	2824.4
65°	1635.1	1969.1	2410.2	2529.8	2501.5
67.5°	1395.7	1740.7	2147.1	2224.2	2186.4
70°	1168.8	1518.6	1891.9	1931.2	1896.6
72.5°	968.8	1307.5	1633.5	1666.6	1641.4
75°	770.3	1105.8	1395.7	1431.9	1417.8
77.5°	584.4	910.5	1176.8	1224.0	1227.1
80°	420.6	732.5	986.1	1060.2	1069.6
82.5°	277.2	568.7	827.0	921.5	935.7
85°	160.7	423.8	699.4	795.5	809.7
87.5°	69.3	305.6	562.3	649.0	666.3
90°	4.2	193.8	439.3	555.8	582.1
92.5°	18.9	174.6	403.4	522.9	551.1
95°	52.1	204.3	442.7	571.2	610.4
97.5°	233.6	337.0	520.8	648.2	689.9
100°	469.4	570.2	619.4	708.1	728.2
102.5°	720.2	779.2	711.9	716.8	721.2
105°	846.8	891.2	876.6	727.7	696.2



TEST NUMBER: P828052

CATALOG NUMBER: OHBL-24SE-MFL-UNV-L935-CD-UPL24

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	685.9	725.8	789.8	811.5	791.2
115°	589.2	618.8	689.6	724.2	725.5
117.5°	507.5	525.7	592.0	625.8	631.4
120°	422.5	444.3	508.5	535.8	537.2
122.5°	356.7	374.6	431.5	459.8	459.5
125°	294.3	314.0	367.1	394.6	396.8
127.5°	249.3	263.3	312.7	341.8	345.8
130°	218.5	226.8	269.8	297.3	302.9
132.5°	195.2	204.2	235.3	263.8	269.3
135°	177.7	184.2	208.9	234.3	242.2
137.5°	163.5	169.2	186.8	211.3	217.7
140°	152.6	157.5	169.6	190.1	197.2
142.5°	143.3	146.7	153.2	172.2	176.9
145°	136.6	138.3	142.4	155.8	161.4
147.5°	129.1	132.4	134.1	142.1	146.8
150°	123.3	126.5	127.4	129.8	135.4
152.5°	117.4	120.7	121.6	120.8	124.0
155°	112.4	115.7	115.8	115.0	116.6
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°	850.2	899.2	930.3	809.2	715.3
110°	785.2	832.1	879.7	859.6	785.8



(END OF REPORT)