

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: P827905

Luminaire Tested: **OHB-24SE-MCL-UNV-L935-CD-UPL24**

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P827905
REPORT IS A COMBINATION OF REPORTS P826210 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-24SE-MCL-UNV-L935-CD-UPL24
Description:
Light Source: -
Ballast/Driver: -

Summary

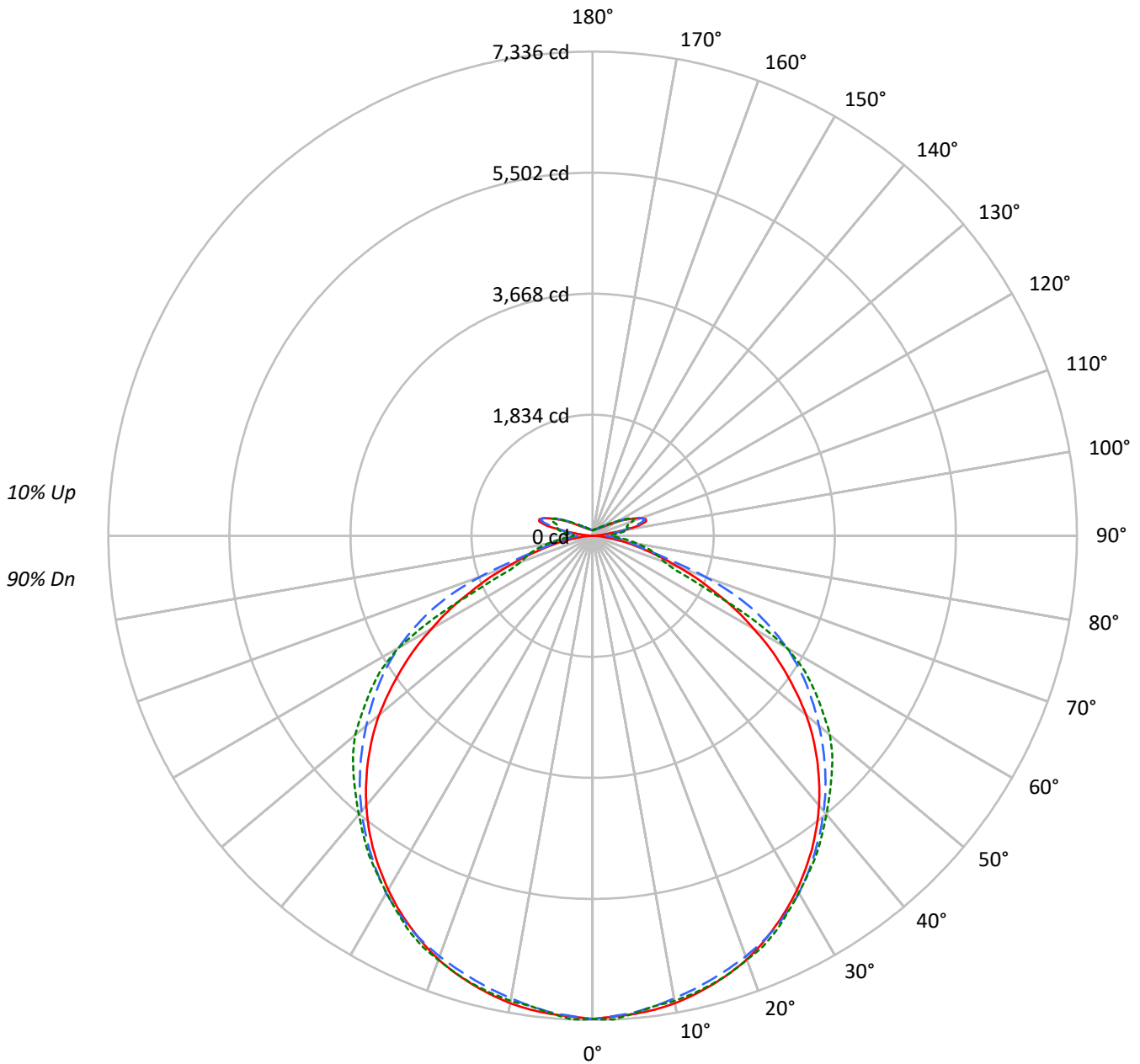
Lumens per Lamp: N/A
Luminaire Lumens: 22709.4 lumens
Efficiency: N/A
Efficacy: 138.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.93' x L: 1.67' x H: 0.17')
CIE Type: Direct

Input Watts (W): 164
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: P827905

CATALOG NUMBER: OHB-24SE-MCL-UNV-L935-CD-UPL24

Luminous Intensity Polar Plot





TEST NUMBER: P827905

CATALOG NUMBER: OHB-24SE-MCL-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	0	
RCR																						
0	117	117	117	117	113	113	113	113	106	106	106	99	99	99	93	93	93	90				
1	107	102	98	94	103	99	95	92	93	90	87	87	85	83	82	80	79	76				
2	97	89	83	77	94	87	81	76	82	77	72	77	73	69	73	69	66	64				
3	89	79	71	64	86	76	69	63	72	66	61	68	63	59	64	60	56	54				
4	81	70	61	55	78	68	60	54	64	57	52	61	55	50	57	53	49	46				
5	75	62	53	47	72	61	52	46	57	50	45	54	48	44	52	46	42	40				
6	69	56	47	41	66	54	46	40	52	45	39	49	43	38	47	41	37	35				
7	64	51	42	36	62	49	41	36	47	40	35	45	38	34	43	37	33	31				
8	59	46	38	32	57	45	37	32	43	36	31	41	35	30	39	34	29	27				
9	55	42	34	29	54	41	34	28	39	33	28	38	32	27	36	31	26	25				
10	52	39	31	26	50	38	31	26	36	30	25	35	29	25	33	28	24	22				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	24456	24456	24456
5°	24178	24028	24165
10°	23973	23593	23910
15°	23702	23250	23763
20°	23430	23007	23566
25°	23023	22762	23372
30°	22587	22415	22945
35°	22084	21908	22717
40°	21464	21382	22402
45°	20653	20782	22274
50°	19603	20104	22120
55°	18034	19423	21320
60°	16040	18468	19739
65°	13517	16807	12534
70°	10625	12952	9111
75°	7681	7549	9282
80°	5029	6098	8917
85°	2518	5297	8459



TEST NUMBER: P827905

CATALOG NUMBER: OHB-24SE-MCL-UNV-L935-CD-UPL24

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	690.3	3.0
10°-20°	1979.5	8.7
20°-30°	3023.3	13.3
30°-40°	3668.3	16.2
40°-50°	3844.7	16.9
50°-60°	3483.9	15.3
60°-70°	2335.8	10.3
70°-80°	1048.9	4.6
80°-90°	385.8	1.7
90°-100°	307.8	1.4
100°-110°	724.8	3.2
110°-120°	602.5	2.7
120°-130°	291.0	1.3
130°-140°	148.4	0.7
140°-150°	87.0	0.4
150°-160°	51.8	0.2
160°-170°	27.5	0.1
170°-180°	8.4	0.0
0°-30°	5693.1	25.1
0°-40°	9361.3	41.2
0°-60°	16689.9	73.5
0°-90°	20460.3	90.1
90°-120°	1635.1	7.2
90°-150°	2161.4	9.5
90°-180°	2249.0	9.9
0°-180°	22709.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7321	7321	7321	7321	7321	
5°	7273	7299	7248	7270	7261	692
15°	7037	7010	6960	7021	7030	1987
25°	6538	6509	6555	6615	6596	3014
35°	5795	5808	5868	5930	5907	3622
45°	4809	4887	4978	5105	5121	3705
55°	3539	3709	3962	4121	4112	3159
65°	2077	2402	2727	2301	1879	2069
75°	817	1186	872	892	951	893
85°	141	270	346	418	438	172
90°	5	118	218	276	292	12
95°	45	149	266	339	368	139
105°	840	851	764	574	536	798
115°	585	595	613	620	617	590
125°	289	305	322	324	322	272
135°	176	181	188	194	197	139
145°	130	135	137	139	141	83
155°	107	110	112	112	111	50
165°	95	96	97	97	97	27
175°	87	88	86	86	86	8
180°	86	86	86	86	86	



TEST NUMBER: P827905

CATALOG NUMBER: OHB-24SE-MCL-UNV-L935-CD-UPL24

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7321.0	7321.0	7321.0	7321.0	7321.0
2.5°	7291.4	7322.1	7284.0	7325.2	7335.8
5°	7273.4	7298.8	7248.0	7270.2	7260.7
7.5°	7240.6	7249.0	7188.7	7206.7	7187.7
10°	7191.9	7187.7	7116.8	7151.7	7155.9
12.5°	7119.9	7107.2	7043.7	7096.6	7097.7
15°	7037.3	7009.8	6960.1	7021.4	7029.9
17.5°	6942.1	6906.1	6873.2	6952.7	6939.9
20°	6830.9	6788.6	6782.2	6869.0	6837.3
22.5°	6693.3	6660.5	6675.3	6757.8	6737.8
25°	6537.7	6509.1	6554.6	6615.0	6595.9
27.5°	6373.6	6356.7	6408.6	6455.1	6418.1
30°	6193.7	6184.2	6252.9	6291.1	6244.5
32.5°	5997.8	6001.0	6066.7	6118.5	6075.1
35°	5794.6	5808.3	5867.6	5930.1	5906.8
37.5°	5571.2	5601.9	5661.2	5732.1	5707.8
40°	5335.2	5379.6	5445.2	5531.0	5508.8
42.5°	5080.1	5136.2	5220.8	5316.1	5314.0
45°	4809.1	4887.4	4978.4	5105.4	5121.3
47.5°	4527.5	4615.3	4730.8	4900.1	4924.4
50°	4221.6	4331.7	4475.6	4678.8	4693.7
52.5°	3880.7	4031.0	4221.6	4416.3	4398.3
55°	3538.8	3709.2	3962.2	4121.0	4111.5
57.5°	3197.9	3389.5	3696.5	3809.8	3808.8
60°	2816.8	3059.2	3394.8	3480.6	3395.8
62.5°	2464.3	2724.8	3073.0	3010.6	2720.5
65°	2076.9	2401.9	2726.8	2301.3	1878.9
67.5°	1732.8	2071.6	2316.2	1576.2	1349.7
70°	1386.8	1760.4	1805.9	1169.8	1153.8
72.5°	1079.8	1477.8	1245.9	1001.4	1052.2
75°	817.3	1185.6	872.3	892.3	950.6
77.5°	596.0	910.3	678.5	782.3	829.9
80°	409.7	644.7	553.7	657.3	690.2
82.5°	257.2	425.6	443.5	529.2	563.2
85°	140.8	269.9	346.2	418.2	438.2
87.5°	58.3	163.0	264.7	322.8	339.8
90°	5.2	118.3	218.1	276.1	292.5
92.5°	15.3	106.3	206.1	266.0	284.3
95°	45.2	148.6	266.2	339.3	368.5
97.5°	226.2	287.0	363.5	439.7	471.4
100°	463.2	525.4	479.9	520.4	531.1
102.5°	715.1	736.3	587.0	548.5	545.0
105°	840.1	851.0	763.7	573.8	536.2



TEST NUMBER: P827905

CATALOG NUMBER: OHB-24SE-MCL-UNV-L935-CD-UPL24

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	680.8	698.2	706.0	696.3	671.8
115°	585.2	595.2	613.2	620.0	617.1
117.5°	501.8	504.8	524.0	529.5	532.4
120°	416.8	427.0	448.2	449.4	445.5
122.5°	351.0	361.0	377.6	381.2	377.3
125°	289.1	305.2	321.6	323.9	322.4
127.5°	246.8	257.7	274.4	278.4	278.7
130°	216.0	223.7	237.3	242.4	243.2
132.5°	193.7	200.6	209.6	217.2	216.3
135°	176.2	180.6	187.5	194.4	197.2
137.5°	163.1	165.6	170.6	178.4	179.4
140°	150.6	153.9	157.0	162.9	164.8
142.5°	138.7	143.1	145.3	150.2	151.2
145°	130.3	134.8	137.2	139.2	141.0
147.5°	123.9	127.2	128.9	130.6	131.7
150°	118.1	119.8	122.2	123.1	123.9
152.5°	112.2	113.9	116.4	117.2	117.2
155°	107.2	110.0	111.7	112.5	111.4
157.5°	103.1	105.8	107.5	108.3	108.3
160°	99.8	101.7	103.3	104.2	104.2
162.5°	97.5	98.3	99.2	100.0	100.0
165°	95.0	95.8	96.7	96.7	96.7
167.5°	92.5	93.5	93.3	94.2	94.2
170°	90.0	90.8	90.8	90.6	90.6
172.5°	88.3	89.2	89.2	88.1	88.9
175°	86.7	87.5	86.4	86.2	86.2
177.5°	87.7	86.7	85.6	84.5	83.5
180°	85.6	85.6	85.6	85.6	85.6



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	844.5	862.6	829.3	669.9	570.4
110°	780.5	798.6	787.6	732.9	653.4



(END OF REPORT)