

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: P828053

Luminaire Tested: **OHBL-24SE-MFL-UNV-L935-CD-UPL36**

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P828053
REPORT IS A COMBINATION OF REPORTS P826307 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-24SE-MFL-UNV-L935-CD-UPL36
Description:
Light Source: -
Ballast/Driver: -

Summary

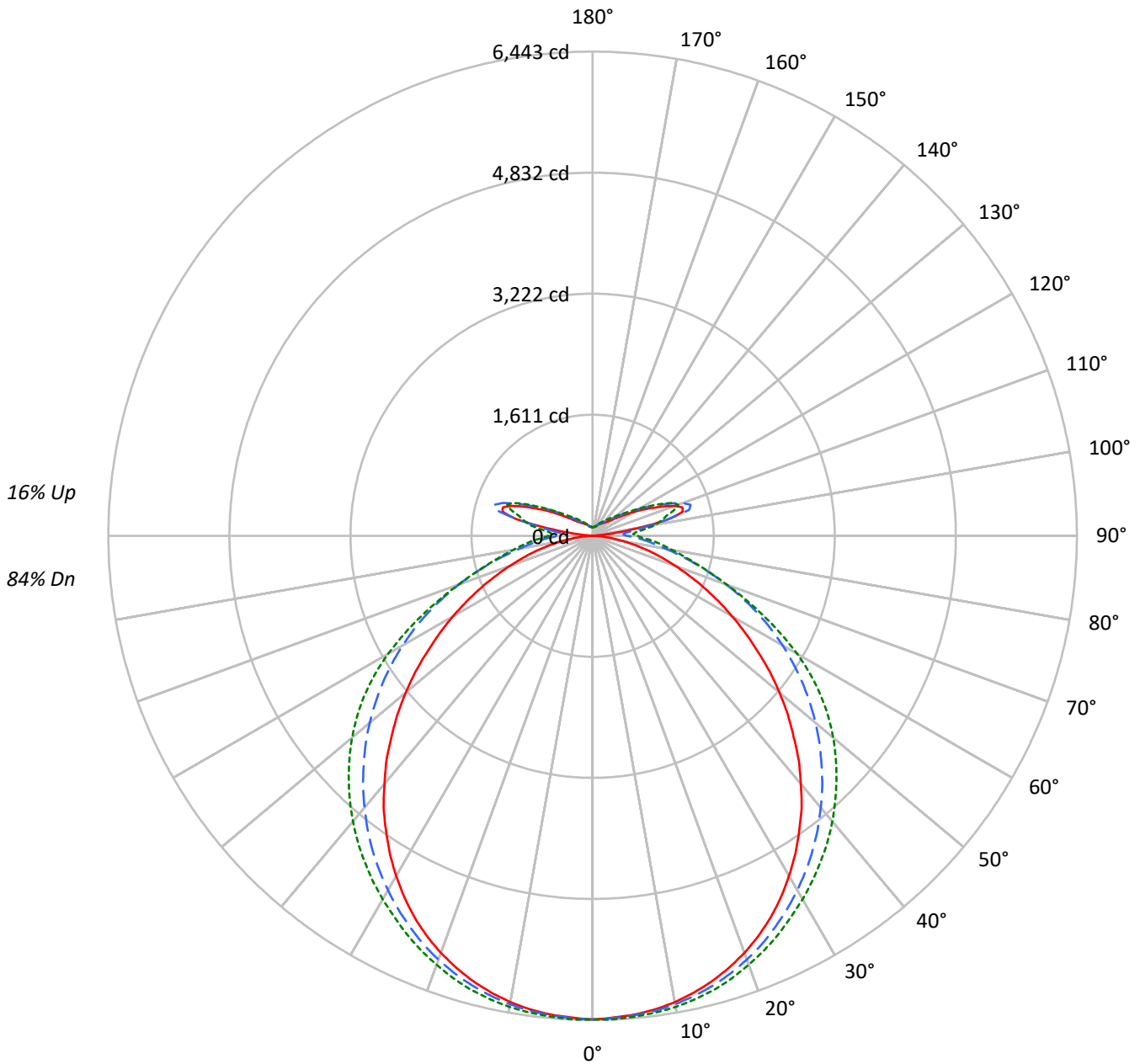
Lumens per Lamp: N/A
Luminaire Lumens: 22248.4 lumens
Efficiency: N/A
Efficacy: 133.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 166.8
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				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	115	115	115	115	111	111	111	111	102	102	102	94	94	94	87	87	87	84	84	84	84
1	105	100	95	91	100	96	92	88	89	85	83	82	80	77	76	74	72	69	69	69	69
2	95	87	80	74	91	83	77	72	77	72	68	72	68	64	66	63	60	57	57	57	57
3	87	76	68	62	83	73	66	60	68	62	57	63	58	54	59	54	51	48	48	48	48
4	79	67	59	52	76	65	57	51	60	54	48	56	51	46	52	48	44	41	41	41	41
5	73	60	51	45	69	58	50	44	54	47	42	50	44	40	47	42	38	35	35	35	35
6	67	54	45	39	64	52	44	38	49	42	36	46	40	35	43	37	33	31	31	31	31
7	62	49	40	34	59	47	39	34	44	37	32	41	35	31	39	34	30	27	27	27	27
8	58	44	36	30	55	43	35	30	40	34	29	38	32	28	36	30	26	24	24	24	24
9	54	41	33	27	52	40	32	27	37	30	26	35	29	25	33	28	24	22	22	22	22
10	50	38	30	25	48	36	29	24	34	28	23	32	27	23	31	25	22	20	20	20	20

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



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	609.9	2.7
10°-20°	1749.7	7.9
20°-30°	2646.1	11.9
30°-40°	3176.7	14.3
40°-50°	3281.0	14.7
50°-60°	2951.9	13.3
60°-70°	2223.6	10.0
70°-80°	1342.7	6.0
80°-90°	663.1	3.0
90°-100°	505.7	2.3
100°-110°	1196.2	5.4
110°-120°	952.0	4.3
120°-130°	459.1	2.1
130°-140°	233.5	1.0
140°-150°	133.8	0.6
150°-160°	75.6	0.3
160°-170°	36.7	0.2
170°-180°	11.2	0.1
0°-30°	5005.7	22.5
0°-40°	8182.4	36.8
0°-60°	14415.2	64.8
0°-90°	18644.6	83.8
90°-120°	2653.9	11.9
90°-150°	3480.3	15.6
90°-180°	3604.0	16.2
0°-180°	22248.4	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°	7	206	453	564	585	15
95°	60	215	437	556	584	199
105°	1242	1293	1328	1086	1012	1181
115°	871	883	960	1002	1000	881
125°	435	455	512	533	529	409
135°	261	270	296	322	329	206
145°	197	200	206	221	226	125
155°	162	166	167	168	169	73
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°	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°	6.7	206.2	452.6	564.1	585.4
92.5°	25.6	187.1	407.6	517.9	540.2
95°	59.6	215.2	436.8	556.2	583.8
97.5°	321.1	429.5	550.8	679.9	714.1
100°	678.6	768.6	757.8	828.1	857.3
102.5°	1057.8	1135.0	1036.9	950.2	936.2
105°	1241.8	1292.9	1328.3	1086.0	1012.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1020.9	1053.3	1121.4	<i>1159.0</i>	1138.7
115°	870.9	882.9	960.4	<i>1002.5</i>	1000.5
117.5°	748.3	757.3	827.0	<i>858.3</i>	853.9
120°	631.7	644.2	709.3	<i>729.2</i>	728.8
122.5°	525.8	545.4	603.2	<i>624.8</i>	618.7
125°	435.1	454.8	512.1	<i>532.9</i>	529.3
127.5°	373.5	381.7	434.3	<i>458.5</i>	463.2
130°	322.7	330.9	374.8	<i>403.2</i>	406.2
132.5°	287.7	297.5	331.1	<i>358.8</i>	367.6
135°	261.0	270.0	295.6	<i>321.8</i>	328.8
137.5°	239.3	247.5	265.1	<i>291.3</i>	298.5
140°	222.6	229.2	242.1	<i>264.3</i>	270.6
142.5°	209.2	214.2	221.5	<i>241.3</i>	246.1
145°	197.4	200.0	205.8	<i>220.8</i>	226.4
147.5°	187.4	190.8	194.9	<i>202.1</i>	207.6
150°	178.2	182.3	184.1	<i>187.3</i>	192.9
152.5°	169.9	174.0	175.8	<i>175.0</i>	179.0
155°	162.4	166.5	167.4	<i>167.5</i>	169.1
157.5°	140.0	142.5	145.0	<i>145.8</i>	145.8
160°	135.0	136.7	139.2	<i>139.2</i>	140.0
162.5°	130.0	131.7	133.3	<i>134.2</i>	135.0
165°	125.8	127.5	128.3	<i>129.2</i>	130.0
167.5°	122.5	123.3	124.2	<i>125.0</i>	125.0
170°	119.2	120.0	120.8	<i>120.8</i>	121.7
172.5°	116.7	117.5	118.3	<i>118.3</i>	118.3
175°	115.0	115.0	115.8	<i>115.8</i>	116.7
177.5°	113.3	114.2	114.2	<i>114.2</i>	115.0
180°	113.3	113.3	113.3	<i>113.3</i>	113.3



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	1253.5	1301.8	1367.8	1271.7	1134.5
110°	1157.7	1207.9	1273.8	1270.4	1212.4



(END OF REPORT)