

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: P828031

Luminaire Tested: **OHBL-24HE-MCL-UNV-L935-CD-UPL24**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P828031
REPORT IS A COMBINATION OF REPORTS P826240 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-24HE-MCL-UNV-L935-CD-UPL24
Description:
Light Source: -
Ballast/Driver: -

Summary

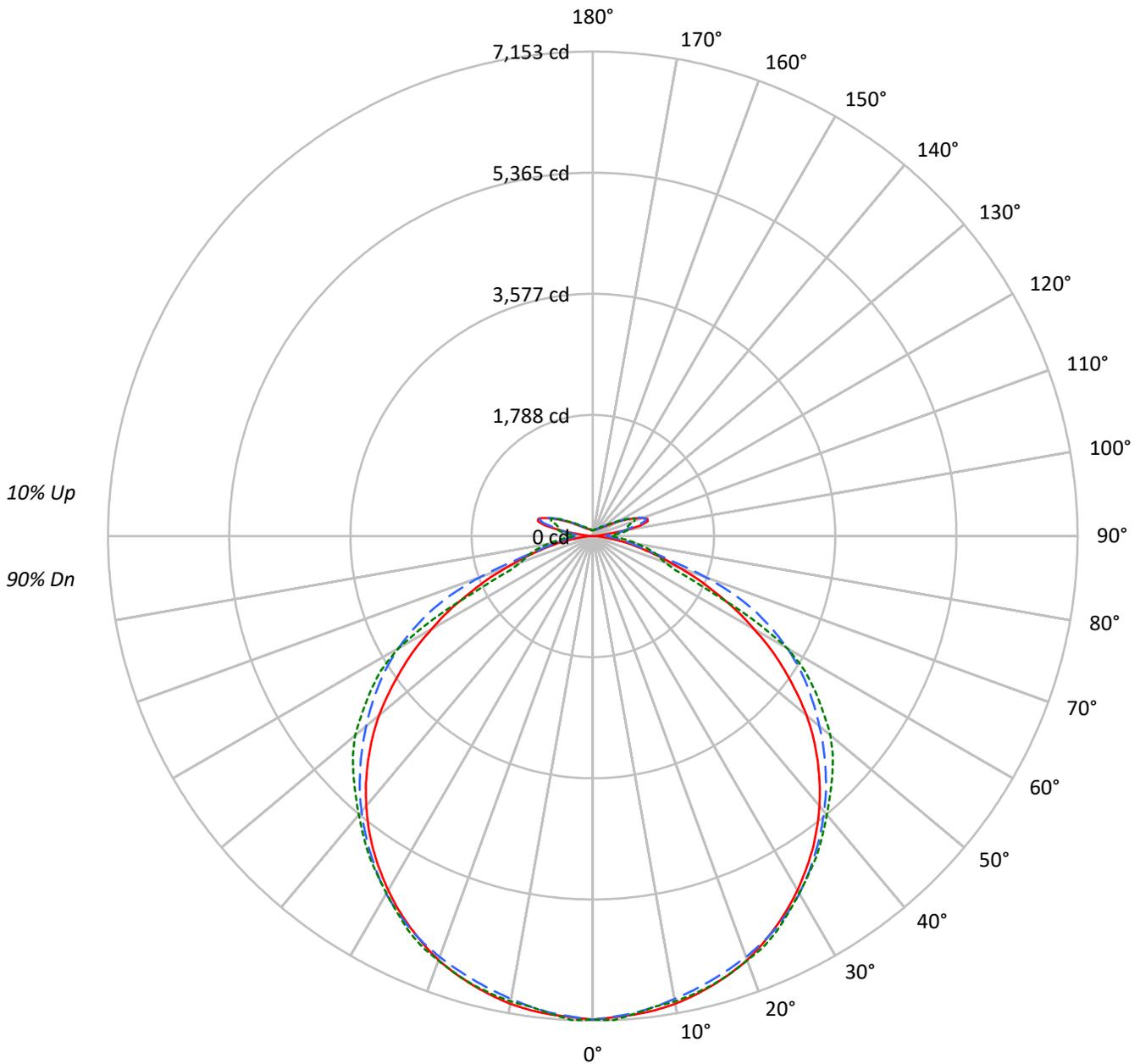
Lumens per Lamp: N/A
Luminaire Lumens: 22194.4 lumens
Efficiency: N/A
Efficacy: 147.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 150.4
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

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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	50	30	10	0		
RCR																										
0	117	117	117	117	113	113	113	113	105	105	105	99	99	99	93	93	93	93	93	93	93	93	93	90		
1	107	102	98	94	103	99	95	92	93	90	87	87	85	83	82	80	79	79	79	79	79	79	79	76		
2	97	89	83	77	94	87	81	76	82	77	72	77	73	69	72	69	66	66	66	66	66	66	66	64		
3	89	79	71	64	86	76	69	63	72	66	61	68	63	59	64	60	56	56	56	56	56	56	56	54		
4	81	70	61	55	78	68	60	54	64	57	52	60	55	50	57	52	48	48	48	48	48	48	48	46		
5	75	62	53	47	72	60	52	46	57	50	45	54	48	43	51	46	42	42	42	42	42	42	42	40		
6	69	56	47	41	66	54	46	40	52	45	39	49	43	38	47	41	37	37	37	37	37	37	37	35		
7	64	51	42	36	62	49	41	36	47	40	35	45	38	34	42	37	33	33	33	33	33	33	33	31		
8	59	46	38	32	57	45	37	32	43	36	31	41	35	30	39	33	29	29	29	29	29	29	29	27		
9	55	42	34	29	53	41	34	28	39	33	28	38	31	27	36	30	26	26	26	26	26	26	26	25		
10	52	39	31	26	50	38	31	26	36	30	25	35	29	25	33	28	24	24	24	24	24	24	24	22		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11290	11290	11290
5°	11169	11126	11196
10°	11081	10957	11119
15°	10963	10831	11092
20°	10845	10752	11043
25°	10664	10672	10997
30°	10469	10546	10843
35°	10244	10346	10787
40°	9966	10140	10694
45°	9599	9900	10697
50°	9121	9629	10698
55°	8403	9361	10399
60°	7487	8969	9730
65°	6323	8242	6264
70°	4984	6434	4640
75°	3618	3820	4863
80°	2385	3175	4903
85°	1209	2910	5156



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	673.1	3.0
10°-20°	1930.2	8.7
20°-30°	2948.0	13.3
30°-40°	3577.0	16.1
40°-50°	3749.0	16.9
50°-60°	3397.2	15.3
60°-70°	2277.7	10.3
70°-80°	1022.8	4.6
80°-90°	376.3	1.7
90°-100°	304.9	1.4
100°-110°	723.5	3.3
110°-120°	601.8	2.7
120°-130°	290.6	1.3
130°-140°	148.1	0.7
140°-150°	86.8	0.4
150°-160°	51.7	0.2
160°-170°	27.4	0.1
170°-180°	8.4	0.0
0°-30°	5551.4	25.0
0°-40°	9128.3	41.1
0°-60°	16274.5	73.3
0°-90°	19951.3	89.9
90°-120°	1630.2	7.3
90°-150°	2155.7	9.7
90°-180°	2243.0	10.1
0°-180°	22194.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7139	7139	7139	7139	7139	
5°	7092	7117	7068	7089	7080	675
15°	6862	6835	6787	6847	6855	1937
25°	6375	6347	6392	6450	6432	2939
35°	5650	5664	5722	5782	5760	3532
45°	4689	4766	4854	4978	4994	3612
55°	3451	3617	3864	4018	4009	3080
65°	2025	2342	2659	2244	1832	2018
75°	797	1156	851	870	927	871
85°	137	263	338	408	427	167
90°	5	116	214	270	287	11
95°	45	147	263	336	365	139
105°	840	850	762	572	534	798
115°	585	595	612	619	616	589
125°	289	305	321	323	322	271
135°	176	180	187	194	197	139
145°	130	134	137	139	141	83
155°	107	110	111	112	111	50
165°	95	96	96	96	96	27
175°	86	87	86	86	86	8
180°	85	85	85	85	85	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7138.8	7138.8	7138.8	7138.8	<i>7138.8</i>
2.5°	<i>7109.9</i>	<i>7139.8</i>	<i>7102.7</i>	<i>7142.9</i>	<i>7153.2</i>
5°	7092.3	7117.2	7067.6	7089.3	<i>7080.0</i>
7.5°	7060.3	7068.7	7009.8	7027.3	<i>7008.8</i>
10°	7012.9	7008.8	6939.6	6973.7	<i>6977.8</i>
12.5°	6942.7	6930.3	6868.4	6920.0	<i>6921.0</i>
15°	6862.2	6835.3	6786.8	6846.7	<i>6854.9</i>
17.5°	6769.3	6734.2	6702.2	6779.6	<i>6767.2</i>
20°	6660.9	6619.6	6613.4	6698.1	<i>6667.1</i>
22.5°	6526.8	6494.8	6509.2	6589.7	<i>6570.1</i>
25°	6375.0	6347.1	6391.5	6450.3	<i>6431.8</i>
27.5°	6215.0	6198.5	6249.1	6294.5	<i>6258.3</i>
30°	6039.5	6030.2	6097.3	6134.5	<i>6089.1</i>
32.5°	5848.6	5851.7	5915.7	5966.2	<i>5923.9</i>
35°	5650.3	5663.8	5721.6	5782.5	<i>5759.8</i>
37.5°	5432.6	5462.5	5520.3	5589.4	<i>5565.8</i>
40°	5202.4	5245.8	5309.8	5393.3	<i>5371.7</i>
42.5°	4953.6	5008.3	5090.9	5183.8	<i>5181.8</i>
45°	4689.3	4765.8	4854.5	4978.4	<i>4993.8</i>
47.5°	4414.8	4500.5	4613.0	4778.2	<i>4801.9</i>
50°	4116.5	4223.8	4364.3	4562.4	<i>4576.8</i>
52.5°	3784.1	3930.7	4116.5	4306.4	<i>4288.8</i>
55°	3450.7	3616.9	3863.6	4018.4	<i>4009.2</i>
57.5°	3118.3	3305.2	3604.5	3714.9	<i>3713.9</i>
60°	2746.8	2983.1	3310.3	3393.9	<i>3311.3</i>
62.5°	2403.0	2656.9	2996.5	2935.7	<i>2652.8</i>
65°	2025.3	2342.1	2659.0	2244.0	<i>1832.2</i>
67.5°	1689.8	2020.1	2258.5	1537.0	<i>1316.1</i>
70°	1352.2	1716.6	1761.0	1140.6	<i>1125.1</i>
72.5°	1052.8	1441.0	1214.9	976.5	<i>1026.0</i>
75°	796.8	1156.1	850.6	870.2	<i>926.9</i>
77.5°	581.2	887.7	661.7	762.8	<i>809.2</i>
80°	399.5	628.6	539.8	641.0	<i>673.0</i>
82.5°	250.8	414.9	432.5	516.1	<i>549.2</i>
85°	137.2	263.2	337.5	407.8	<i>427.3</i>
87.5°	56.8	159.0	258.1	314.8	<i>331.3</i>
90°	5.2	116.1	213.6	270.5	<i>286.7</i>
92.5°	15.2	104.6	202.4	261.5	<i>279.6</i>
95°	45.2	147.2	263.1	335.6	<i>364.7</i>
97.5°	226.2	285.8	361.0	436.6	<i>468.2</i>
100°	463.1	524.5	477.8	517.8	<i>528.4</i>
102.5°	715.0	735.6	585.2	546.3	<i>542.8</i>
105°	840.0	850.4	762.2	572.1	<i>534.3</i>



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	680.6	697.8	705.1	695.2	670.6
115°	584.9	594.9	612.4	619.0	616.1
117.5°	501.6	504.5	523.3	528.7	531.6
120°	416.6	426.8	447.8	448.7	444.8
122.5°	350.8	360.8	377.1	380.6	376.7
125°	288.9	304.9	321.1	323.3	321.9
127.5°	246.6	257.4	274.0	277.9	278.2
130°	215.8	223.4	236.9	241.9	242.8
132.5°	193.4	200.3	209.2	216.8	215.9
135°	175.9	180.3	187.2	194.0	196.8
137.5°	162.8	165.3	170.3	178.0	179.0
140°	150.3	153.7	156.8	162.6	164.4
142.5°	138.4	142.8	145.1	149.9	150.9
145°	130.1	134.5	137.0	138.8	140.8
147.5°	123.7	127.0	128.7	130.3	131.3
150°	117.8	119.5	122.0	122.8	123.7
152.5°	112.0	113.7	116.2	117.0	117.0
155°	107.0	109.7	111.3	112.2	111.2
157.5°	102.8	105.5	107.2	108.0	108.0
160°	99.5	101.3	103.0	103.8	103.8
162.5°	97.2	98.0	98.8	99.7	99.7
165°	94.7	95.5	96.3	96.3	96.3
167.5°	92.2	93.3	93.0	93.8	93.8
170°	89.7	90.5	90.5	90.3	90.3
172.5°	88.0	88.8	88.8	87.8	88.7
175°	86.3	87.2	86.2	85.9	85.9
177.5°	87.4	86.3	85.3	84.2	83.3
180°	85.3	85.3	85.3	85.3	85.3



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	844.3	862.1	828.1	668.4	568.8
110°	780.3	798.2	786.5	731.6	652.0



(END OF REPORT)