

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: P830407

Luminaire Tested: **OHBL-36SE-MFL-UNV-L830-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830407
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-36SE-MFL-UNV-L830-CD
Description: 36000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 3000K LEDS AND MEDIUM FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

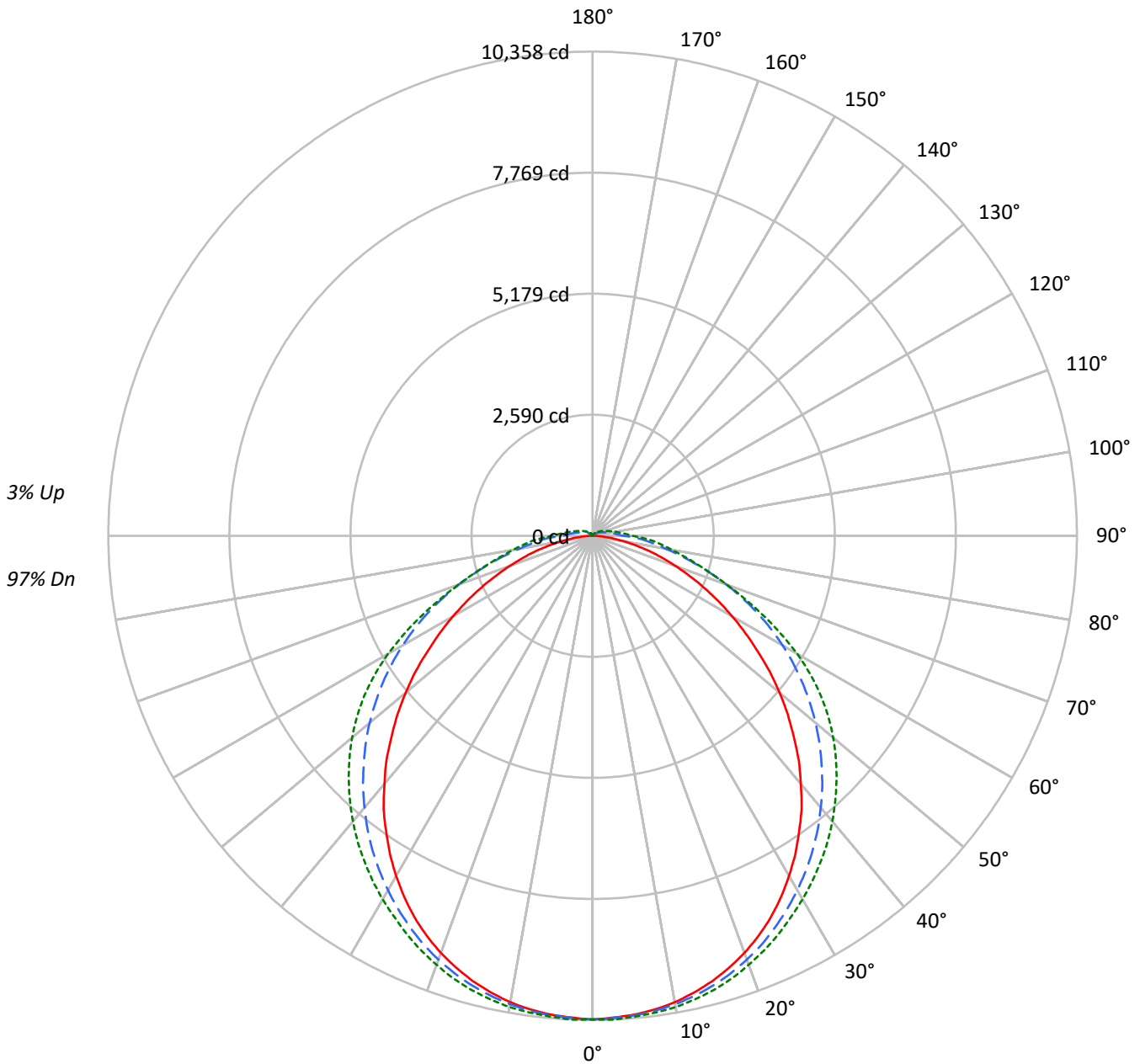
Lumens per Lamp: N/A
Luminaire Lumens: 30971.0 lumens
Efficiency: N/A
Efficacy: 146.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 211
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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	99	97	
1	107	102	98	94	104	100	96	92	95	91	88	90	88	85	86	84	82	82	82	82	80	
2	98	89	82	76	95	87	80	75	83	77	73	79	74	71	75	72	68	68	68	68	66	
3	89	78	70	63	86	76	69	62	73	66	61	70	64	59	67	62	58	58	58	58	56	
4	81	69	60	53	79	68	59	53	65	57	52	62	56	51	59	54	50	50	50	50	47	
5	75	62	53	46	72	60	52	46	58	50	45	56	49	44	53	48	43	43	43	43	41	
6	69	56	47	40	67	54	46	40	52	45	39	50	44	39	48	43	38	38	38	38	36	
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	44	38	34	34	34	34	32	
8	60	46	37	31	58	45	37	31	43	36	31	42	35	31	41	35	30	30	30	30	28	
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	37	32	27	27	27	27	25	
10	52	39	31	26	51	38	31	26	37	30	25	36	29	25	35	29	25	25	25	25	23	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16366	16366	16366
5°	16261	16211	16260
10°	16147	16068	16175
15°	15967	15897	16063
20°	15727	15688	15900
25°	15407	15427	15734
30°	14965	15143	15568
35°	14429	14843	15424
40°	13785	14494	15282
45°	13026	14116	15102
50°	12196	13734	14883
55°	11175	13266	14512
60°	10129	12715	13772
65°	8988	12011	12556
70°	7750	11113	11240
75°	6498	10076	10350
80°	4927	9326	10269
85°	3117	9694	11475



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	980.6	3.2
10°-20°	2813.1	9.1
20°-30°	4254.3	13.7
30°-40°	5107.4	16.5
40°-50°	5275.1	17.0
50°-60°	4745.9	15.3
60°-70°	3575.0	11.5
70°-80°	2158.7	7.0
80°-90°	1055.8	3.4
90°-100°	444.4	1.4
100°-110°	253.7	0.8
110°-120°	148.9	0.5
120°-130°	84.2	0.3
130°-140°	44.3	0.1
140°-150°	21.6	0.1
150°-160°	8.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	8048.0	26.0
0°-40°	13155.3	42.5
0°-60°	23176.3	74.8
0°-90°	29965.9	96.8
90°-120°	847.0	2.7
90°-150°	997.1	3.2
90°-180°	1005.0	3.2
0°-180°	30971.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10348	10348	10348	10348	10348	
5°	10282	10310	10298	10338	10326	977
15°	9867	9915	9961	10044	10055	2782
25°	9011	9110	9239	9384	9406	4145
35°	7704	7884	8208	8456	8507	4816
45°	6081	6387	6922	7299	7378	4695
55°	4308	4754	5476	5888	5959	3863
65°	2629	3166	3875	4067	4022	2612
75°	1238	1778	2244	2302	2279	1321
85°	258	681	1124	1279	1302	298
90°	0	266	643	810	843	16
95°	13	180	481	613	636	11
105°	18	104	279	365	380	18
115°	20	58	172	230	241	21
125°	20	28	104	149	157	18
135°	18	23	53	91	101	14
145°	25	23	25	46	53	15
155°	25	28	25	23	25	8
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10348.4	10348.4	10348.4	<i>10348.4</i>	10348.4
2.5°	<i>10318.0</i>	<i>10343.3</i>	<i>10328.1</i>	<i>10361.1</i>	<i>10358.5</i>
5°	10282.5	10310.4	10297.7	<i>10338.3</i>	10325.6
7.5°	10221.8	10252.2	10249.6	<i>10295.2</i>	10290.1
10°	10133.1	10166.0	10176.2	<i>10237.0</i>	10237.0
12.5°	10011.6	10054.6	10079.9	<i>10153.4</i>	10155.9
15°	9867.2	9915.3	9960.9	<i>10044.5</i>	10054.6
17.5°	9692.4	9753.2	9816.5	<i>9912.8</i>	9925.4
20°	9494.9	9563.3	9649.4	<i>9750.7</i>	9765.9
22.5°	9267.0	9348.0	9459.4	<i>9578.5</i>	9596.2
25°	9011.2	9109.9	9239.1	<i>9383.5</i>	9406.3
27.5°	8719.9	8833.9	9008.6	<i>9170.7</i>	9191.0
30°	8403.3	8537.6	8755.4	<i>8947.8</i>	8980.8
32.5°	8069.0	8223.5	8492.0	<i>8707.2</i>	8752.8
35°	7704.3	7884.1	8208.3	<i>8456.5</i>	8507.2
37.5°	7344.7	7542.2	7909.5	<i>8193.1</i>	8253.9
40°	6924.3	7169.9	7590.3	<i>7904.4</i>	7977.8
42.5°	6529.2	6795.1	7271.2	<i>7613.1</i>	7684.1
45°	6080.9	6387.3	6921.7	<i>7299.1</i>	7377.6
47.5°	5660.5	5992.2	6584.9	<i>6974.9</i>	7056.0
50°	5217.3	5582.0	6225.2	<i>6633.0</i>	6716.6
52.5°	4774.0	5166.6	5852.9	<i>6275.9</i>	6354.4
55°	4308.0	4753.8	5475.6	<i>5888.4</i>	5959.3
57.5°	3875.0	4346.0	5088.1	<i>5480.6</i>	5523.7
60°	3446.9	3935.7	4693.0	<i>5037.4</i>	5052.6
62.5°	3029.0	3543.2	4287.8	<i>4561.3</i>	4541.0
65°	2628.9	3165.8	3875.0	<i>4067.4</i>	4021.8
67.5°	2243.9	2798.6	3452.0	<i>3576.1</i>	3515.3
70°	1879.2	2441.5	3041.7	<i>3105.0</i>	3049.3
72.5°	1557.6	2102.1	2626.4	<i>2679.5</i>	2639.0
75°	1238.5	1777.9	2243.9	<i>2302.2</i>	2279.4
77.5°	939.6	1463.9	1891.9	<i>1967.9</i>	1972.9
80°	676.2	1177.7	1585.4	<i>1704.5</i>	1719.7
82.5°	445.7	914.3	1329.6	<i>1481.6</i>	1504.4
85°	258.3	681.3	1124.5	<i>1279.0</i>	1301.8
87.5°	111.4	491.3	904.2	<i>1043.5</i>	1071.3
90°	0.0	265.9	643.3	<i>810.4</i>	843.4
92.5°	7.6	220.3	552.1	<i>704.1</i>	731.9
95°	12.7	179.8	481.2	<i>612.9</i>	635.7
97.5°	15.2	152.0	417.9	<i>534.4</i>	557.2
100°	15.2	131.7	362.2	<i>468.5</i>	488.8
102.5°	15.2	116.5	316.6	<i>410.3</i>	428.0
105°	17.7	103.8	278.6	<i>364.7</i>	379.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	20.3	68.4	192.5	258.3	268.5
115°	20.3	58.3	172.2	230.5	240.6
117.5°	22.8	50.7	152.0	207.7	215.3
120°	22.8	43.1	134.2	184.9	195.0
122.5°	22.8	35.5	119.0	167.2	174.8
125°	20.3	27.9	103.8	149.4	157.0
127.5°	17.7	22.8	88.6	134.2	141.8
130°	17.7	20.3	76.0	119.0	126.6
132.5°	17.7	22.8	63.3	103.8	114.0
135°	17.7	22.8	53.2	91.2	101.3
137.5°	17.7	22.8	43.1	78.5	88.6
140°	20.3	22.8	35.5	65.8	76.0
142.5°	22.8	22.8	27.9	55.7	63.3
145°	25.3	22.8	25.3	45.6	53.2
147.5°	25.3	25.3	25.3	35.5	43.1
150°	25.3	27.9	25.3	27.9	35.5
152.5°	25.3	27.9	25.3	22.8	27.9
155°	25.3	27.9	25.3	22.8	25.3
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	17.7	91.2	245.7	324.2	336.8
110°	17.7	81.0	217.8	288.7	301.4



(END OF REPORT)