

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: P830405

Luminaire Tested: **OHBL-36SE-MFL-UNV-L740-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830405
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-L740-CD
Description: 36000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 4000K LEDS AND MEDIUM FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

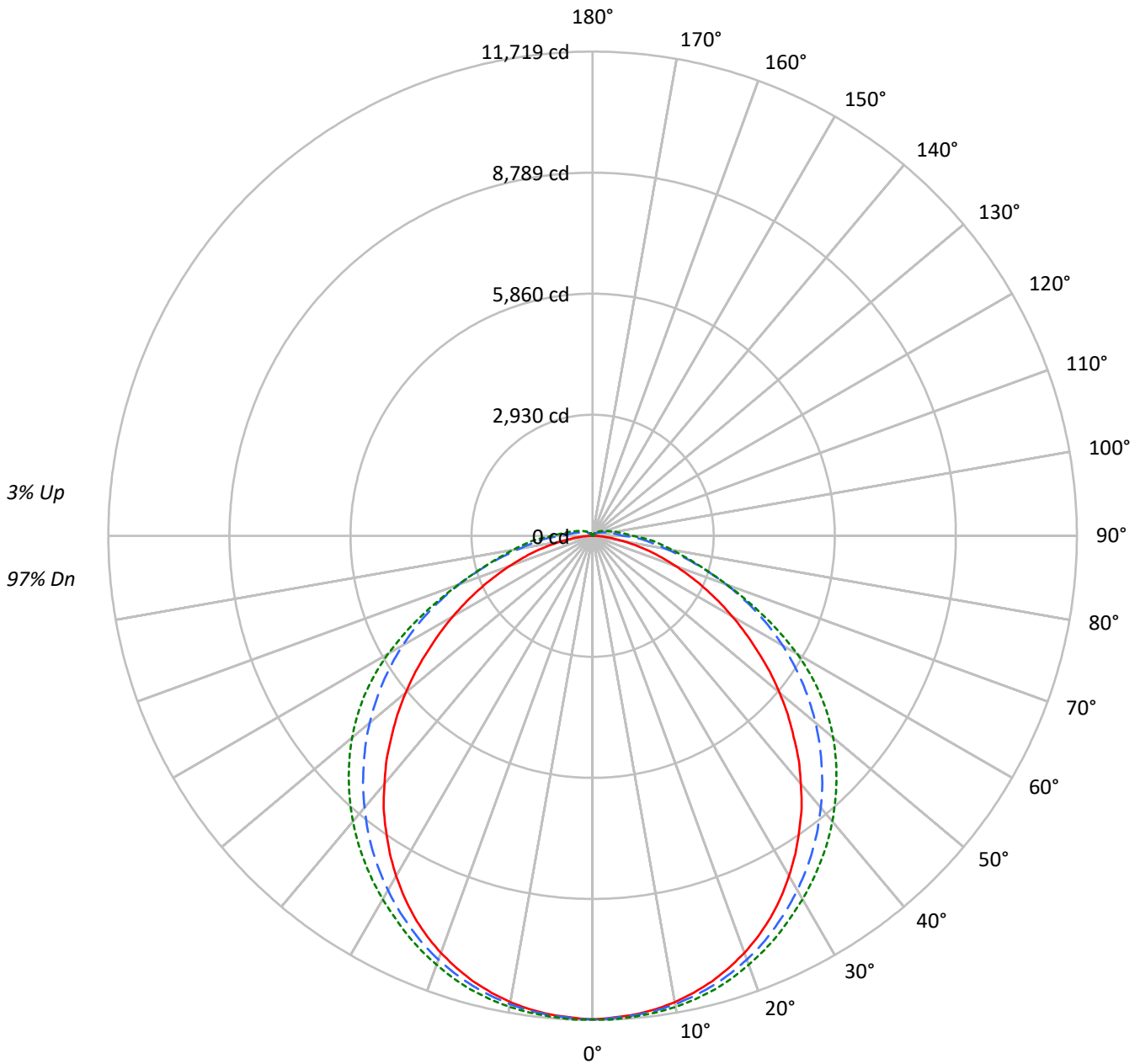
Lumens per Lamp: N/A
Luminaire Lumens: 35038.0 lumens
Efficiency: N/A
Efficacy: 166.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18515	18515	18515
5°	18396	18339	18396
10°	18267	18178	18299
15°	18063	17984	18173
20°	17792	17748	17988
25°	17431	17452	17800
30°	16930	17132	17612
35°	16323	16792	17449
40°	15595	16398	17289
45°	14736	15970	17085
50°	13797	15538	16837
55°	12642	15008	16417
60°	11459	14385	15581
65°	10168	13588	14205
70°	8768	12573	12716
75°	7352	11400	11710
80°	5574	10551	11617
85°	3527	10967	12981



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1109.3	3.2
10°-20°	3182.5	9.1
20°-30°	4813.0	13.7
30°-40°	5778.0	16.5
40°-50°	5967.8	17.0
50°-60°	5369.1	15.3
60°-70°	4044.5	11.5
70°-80°	2442.2	7.0
80°-90°	1194.4	3.4
90°-100°	502.8	1.4
100°-110°	287.0	0.8
110°-120°	168.5	0.5
120°-130°	95.3	0.3
130°-140°	50.2	0.1
140°-150°	24.4	0.1
150°-160°	9.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	9104.8	26.0
0°-40°	14882.9	42.5
0°-60°	26219.8	74.8
0°-90°	33900.9	96.8
90°-120°	958.2	2.7
90°-150°	1128.1	3.2
90°-180°	1137.0	3.2
0°-180°	35038.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11707	11707	11707	11707	11707	
5°	11633	11664	11650	11696	11682	###
15°	11163	11217	11269	11364	11375	3147
25°	10194	10306	10452	10616	10641	4689
35°	8716	8919	9286	9567	9624	5449
45°	6879	7226	7831	8258	8346	5311
55°	4874	5378	6195	6662	6742	4370
65°	2974	3582	4384	4602	4550	2955
75°	1401	2011	2539	2604	2579	1495
85°	292	771	1272	1447	1473	338
90°	0	301	728	917	954	18
95°	14	203	544	693	719	12
105°	20	118	315	413	430	20
115°	23	66	195	261	272	23
125°	23	32	118	169	178	21
135°	20	26	60	103	115	16
145°	29	26	29	52	60	17
155°	29	32	29	26	29	9
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°	11707.3	11707.3	11707.3	<i>11707.3</i>	11707.3
2.5°	<i>11672.9</i>	<i>11701.6</i>	<i>11684.4</i>	<i>11721.6</i>	<i>11718.8</i>
5°	11632.8	11664.3	11650.0	<i>11695.8</i>	11681.5
7.5°	11564.0	11598.4	11595.6	<i>11647.1</i>	11641.4
10°	11463.8	11501.0	11512.5	<i>11581.2</i>	11581.2
12.5°	11326.2	11374.9	11403.6	<i>11486.7</i>	11489.6
15°	11162.9	11217.4	11268.9	<i>11363.5</i>	11374.9
17.5°	10965.2	11034.0	11105.6	<i>11214.5</i>	11228.8
20°	10741.7	10819.1	10916.5	<i>11031.1</i>	11048.3
22.5°	10483.9	10575.5	10701.6	<i>10836.3</i>	10856.3
25°	10194.5	10306.2	10452.3	<i>10615.7</i>	10641.4
27.5°	9865.0	9993.9	10191.6	<i>10375.0</i>	10397.9
30°	9506.8	9658.7	9905.1	<i>10122.8</i>	10160.1
32.5°	9128.6	9303.4	9607.1	<i>9850.6</i>	9902.2
35°	8716.0	8919.4	9286.2	<i>9567.0</i>	9624.3
37.5°	8309.2	8532.6	8948.1	<i>9269.0</i>	9337.8
40°	7833.5	8111.5	8587.1	<i>8942.4</i>	9025.5
42.5°	7386.6	7687.4	8226.1	<i>8612.9</i>	8693.1
45°	6879.4	7226.1	7830.7	<i>8257.6</i>	8346.4
47.5°	6403.8	6779.1	7449.6	<i>7890.8</i>	7982.5
50°	5902.4	6315.0	7042.7	<i>7504.0</i>	7598.6
52.5°	5400.9	5845.1	6621.5	<i>7100.0</i>	7188.9
55°	4873.7	5378.0	6194.6	<i>6661.6</i>	6741.9
57.5°	4383.8	4916.7	5756.2	<i>6200.3</i>	6249.1
60°	3899.6	4452.6	5309.3	<i>5698.9</i>	5716.1
62.5°	3426.8	4008.5	4850.8	<i>5160.3</i>	5137.3
65°	2974.1	3581.5	4383.8	<i>4601.6</i>	4550.0
67.5°	2538.6	3166.1	3905.3	<i>4045.7</i>	3976.9
70°	2126.0	2762.1	3441.1	<i>3512.8</i>	3449.7
72.5°	1762.1	2378.1	2971.2	<i>3031.4</i>	2985.6
75°	1401.1	2011.4	2538.6	<i>2604.5</i>	2578.7
77.5°	1063.0	1656.1	2140.3	<i>2226.3</i>	2232.0
80°	765.0	1332.3	1793.6	<i>1928.3</i>	1945.5
82.5°	504.3	1034.3	1504.2	<i>1676.2</i>	1701.9
85°	292.3	770.7	1272.2	<i>1446.9</i>	1472.7
87.5°	126.1	555.9	1022.9	<i>1180.5</i>	1212.0
90°	0.0	300.8	727.8	<i>916.9</i>	954.1
92.5°	8.6	249.3	624.6	<i>796.5</i>	828.1
95°	14.3	203.4	544.4	<i>693.4</i>	719.2
97.5°	17.2	171.9	472.8	<i>604.6</i>	630.3
100°	17.2	149.0	409.7	<i>530.1</i>	553.0
102.5°	17.2	131.8	358.2	<i>464.2</i>	484.2
105°	20.1	117.5	315.2	<i>412.6</i>	429.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	22.9	77.4	217.8	292.3	303.7
115°	22.9	65.9	194.8	260.7	272.2
117.5°	25.8	57.3	171.9	234.9	243.5
120°	25.8	48.7	151.9	209.2	220.6
122.5°	25.8	40.1	134.7	189.1	197.7
125°	22.9	31.5	117.5	169.0	177.6
127.5°	20.1	25.8	100.3	151.9	160.5
130°	20.1	22.9	86.0	134.7	143.3
132.5°	20.1	25.8	71.6	117.5	128.9
135°	20.1	25.8	60.2	103.1	114.6
137.5°	20.1	25.8	48.7	88.8	100.3
140°	22.9	25.8	40.1	74.5	86.0
142.5°	25.8	25.8	31.5	63.0	71.6
145°	28.7	25.8	28.7	51.6	60.2
147.5°	28.7	28.7	28.7	40.1	48.7
150°	28.7	31.5	28.7	31.5	40.1
152.5°	28.7	31.5	28.7	25.8	31.5
155°	28.7	31.5	28.7	25.8	28.7
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°	20.1	103.1	277.9	366.7	381.1
110°	20.1	91.7	246.4	326.6	341.0



(END OF REPORT)