

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: P830338

Luminaire Tested: **OHBL-36HE-MFL-UNV-L850-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830338
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-36HE-MFL-UNV-L850-CD
Description: 36000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND MEDIUM FROSTED LENS
Light Source: -
Ballast/Driver: -

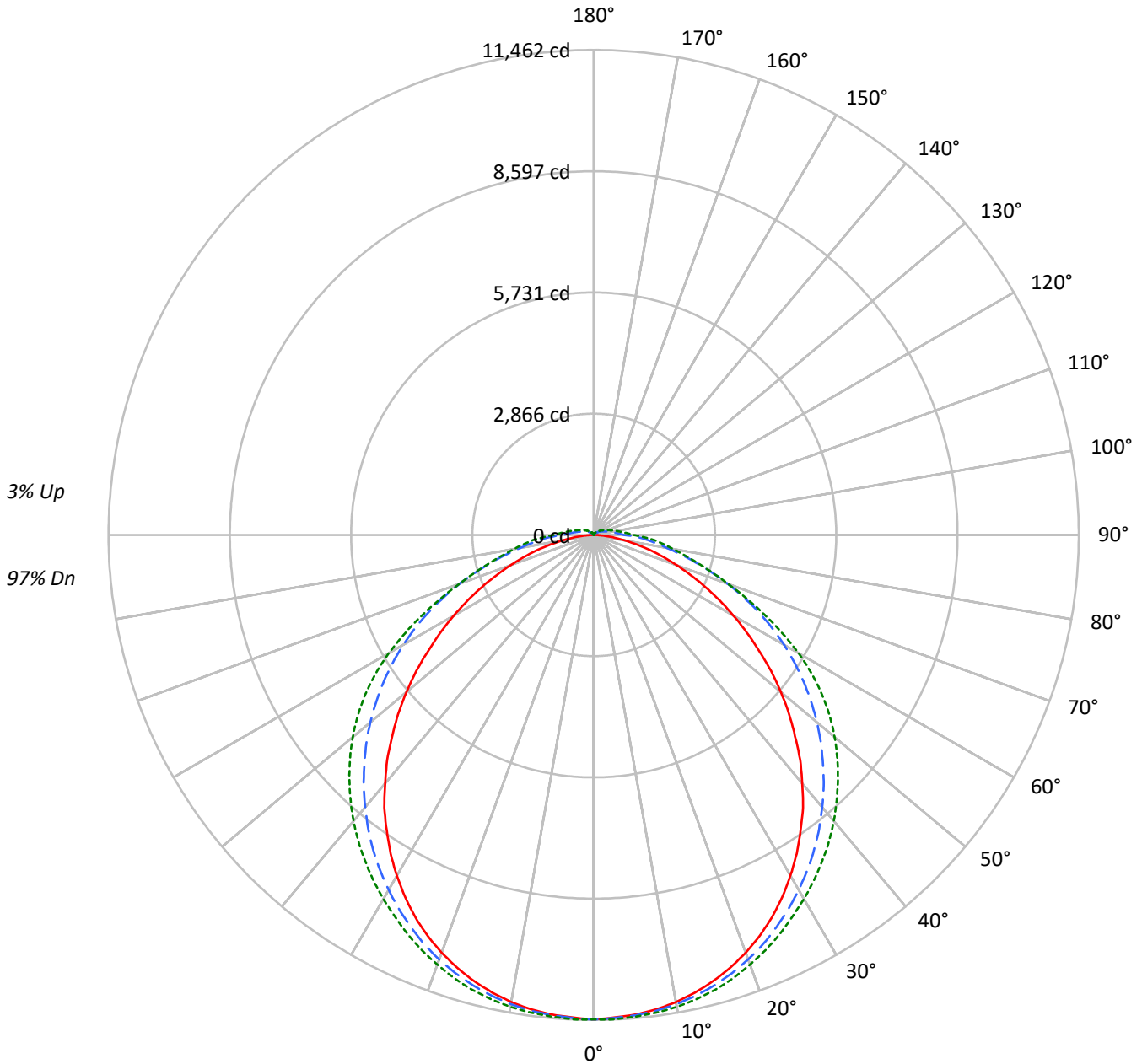
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34269.0 lumens
Efficiency: N/A
Efficacy: 161.6 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): 212
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°	18109	18109	18109
5°	17993	17937	17992
10°	17866	17779	17898
15°	17667	17590	17774
20°	17402	17358	17593
25°	17048	17069	17410
30°	16558	16756	17225
35°	15965	16423	17066
40°	15253	16038	16910
45°	14413	15619	16710
50°	13494	15197	16467
55°	12365	14679	16057
60°	11208	14069	15239
65°	9945	13290	13893
70°	8576	12297	12437
75°	7190	11149	11453
80°	5451	10320	11362
85°	3448	10726	12697



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1085.0	3.2
10°-20°	3112.7	9.1
20°-30°	4707.4	13.7
30°-40°	5651.2	16.5
40°-50°	5836.8	17.0
50°-60°	5251.3	15.3
60°-70°	3955.7	11.5
70°-80°	2388.6	7.0
80°-90°	1168.2	3.4
90°-100°	491.7	1.4
100°-110°	280.7	0.8
110°-120°	164.8	0.5
120°-130°	93.2	0.3
130°-140°	49.1	0.1
140°-150°	23.8	0.1
150°-160°	8.9	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	8905.0	26.0
0°-40°	14556.2	42.5
0°-60°	25644.3	74.8
0°-90°	33156.8	96.8
90°-120°	937.2	2.7
90°-150°	1103.3	3.2
90°-180°	1112.0	3.2
0°-180°	34269.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11450	11450	11450	11450	11450	
5°	11378	11408	11394	11439	11425	###
15°	10918	10971	11022	11114	11125	3078
25°	9971	10080	10223	10383	10408	4586
35°	8525	8724	9082	9357	9413	5329
45°	6728	7068	7659	8076	8163	5194
55°	4767	5260	6059	6515	6594	4274
65°	2909	3503	4288	4501	4450	2890
75°	1370	1967	2483	2547	2522	1462
85°	286	754	1244	1415	1440	330
90°	0	294	712	897	933	18
95°	14	199	532	678	703	12
105°	20	115	308	404	420	20
115°	22	64	191	255	266	23
125°	22	31	115	165	174	20
135°	20	25	59	101	112	15
145°	28	25	28	50	59	17
155°	28	31	28	25	28	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°	11450.4	11450.4	11450.4	<i>11450.4</i>	11450.4
2.5°	<i>11416.7</i>	<i>11444.8</i>	<i>11427.9</i>	<i>11464.4</i>	<i>11461.6</i>
5°	11377.5	11408.3	11394.3	<i>11439.2</i>	11425.1
7.5°	11310.2	11343.9	11341.1	<i>11391.5</i>	11385.9
10°	11212.2	11248.6	11259.8	<i>11327.1</i>	11327.1
12.5°	11077.7	11125.3	11153.3	<i>11234.6</i>	11237.4
15°	10917.9	10971.2	11021.6	<i>11114.1</i>	11125.3
17.5°	10724.6	10791.8	10861.9	<i>10968.4</i>	10982.4
20°	10506.0	10581.6	10676.9	<i>10789.0</i>	10805.8
22.5°	10253.8	10343.4	10466.7	<i>10598.5</i>	10618.1
25°	9970.7	10080.0	10222.9	<i>10382.7</i>	10407.9
27.5°	9648.5	9774.6	9967.9	<i>10147.3</i>	10169.7
30°	9298.2	9446.7	9687.7	<i>9900.7</i>	9937.1
32.5°	8928.3	9099.2	9396.2	<i>9634.4</i>	9684.9
35°	8524.7	8723.7	9082.4	<i>9357.0</i>	9413.1
37.5°	8126.8	8345.4	8751.7	<i>9065.6</i>	9132.8
40°	7661.6	7933.4	8398.6	<i>8746.1</i>	8827.4
42.5°	7224.4	7518.7	8045.5	<i>8423.8</i>	8502.3
45°	6728.4	7067.5	7658.8	<i>8076.3</i>	8163.2
47.5°	6263.2	6630.3	7286.1	<i>7717.6</i>	7807.3
50°	5772.8	6176.4	6888.2	<i>7339.3</i>	7431.8
52.5°	5282.4	5716.8	6476.2	<i>6944.2</i>	7031.1
55°	4766.8	5260.0	6058.7	<i>6515.4</i>	6593.9
57.5°	4287.6	4808.8	5629.9	<i>6064.3</i>	6111.9
60°	3814.0	4354.8	5192.7	<i>5573.9</i>	5590.7
62.5°	3351.6	3920.5	4744.4	<i>5047.0</i>	5024.6
65°	2908.8	3502.9	4287.6	<i>4500.6</i>	4450.1
67.5°	2482.9	3096.6	3819.6	<i>3956.9</i>	3889.6
70°	2079.3	2701.5	3365.6	<i>3435.7</i>	3374.0
72.5°	1723.4	2325.9	2906.0	<i>2964.9</i>	2920.0
75°	1370.3	1967.2	2482.9	<i>2547.3</i>	2522.1
77.5°	1039.7	1619.8	2093.3	<i>2177.4</i>	2183.0
80°	748.2	1303.1	1754.3	<i>1886.0</i>	1902.8
82.5°	493.2	1011.6	1471.2	<i>1639.4</i>	1664.6
85°	285.8	753.8	1244.2	<i>1415.2</i>	1440.4
87.5°	123.3	543.7	1000.4	<i>1154.6</i>	1185.4
90°	0.0	294.2	711.8	<i>896.7</i>	933.2
92.5°	8.4	243.8	610.9	<i>779.1</i>	809.9
95°	14.0	199.0	532.4	<i>678.2</i>	703.4
97.5°	16.8	168.1	462.4	<i>591.3</i>	616.5
100°	16.8	145.7	400.7	<i>518.4</i>	540.9
102.5°	16.8	128.9	350.3	<i>454.0</i>	473.6
105°	19.6	114.9	308.3	<i>403.5</i>	420.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	22.4	75.7	213.0	285.8	297.0
115°	22.4	64.5	190.6	255.0	266.2
117.5°	25.2	56.0	168.1	229.8	238.2
120°	25.2	47.6	148.5	204.6	215.8
122.5°	25.2	39.2	131.7	185.0	193.4
125°	22.4	30.8	114.9	165.3	173.7
127.5°	19.6	25.2	98.1	148.5	156.9
130°	19.6	22.4	84.1	131.7	140.1
132.5°	19.6	25.2	70.1	114.9	126.1
135°	19.6	25.2	58.8	100.9	112.1
137.5°	19.6	25.2	47.6	86.9	98.1
140°	22.4	25.2	39.2	72.9	84.1
142.5°	25.2	25.2	30.8	61.7	70.1
145°	28.0	25.2	28.0	50.4	58.8
147.5°	28.0	28.0	28.0	39.2	47.6
150°	28.0	30.8	28.0	30.8	39.2
152.5°	28.0	30.8	28.0	25.2	30.8
155°	28.0	30.8	28.0	25.2	28.0
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°	19.6	100.9	271.8	358.7	372.7
110°	19.6	89.7	241.0	319.5	333.5



(END OF REPORT)