

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: P830837

Luminaire Tested: **OHBL-90SE-MFL-UNV-L740-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830837
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-90SE-MFL-UNV-L740-CD
Description: 90000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 4000K LEDS AND MEDIUM FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

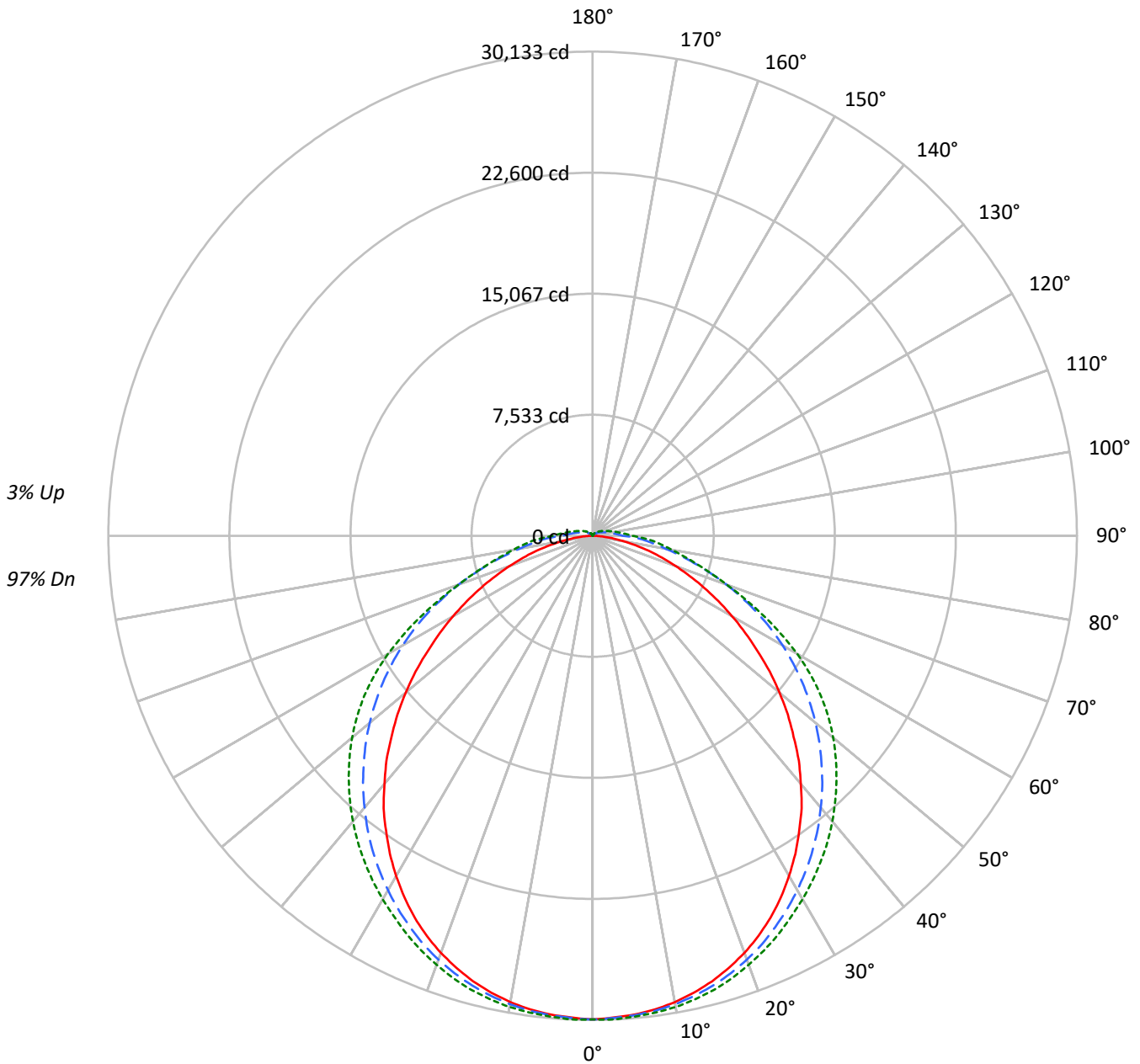
Lumens per Lamp: N/A
Luminaire Lumens: 90094.0 lumens
Efficiency: N/A
Efficacy: 170.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 529
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°	47608	47608	47608
5°	47303	47157	47301
10°	46971	46741	47053
15°	46447	46244	46728
20°	45750	45635	46252
25°	44820	44876	45770
30°	43532	44052	45286
35°	41973	43177	44868
40°	40100	42164	44456
45°	37892	41064	43931
50°	35476	39952	43293
55°	32507	38591	42214
60°	29465	36988	40063
65°	26145	34939	36526
70°	22546	32328	32697
75°	18904	29312	30109
80°	14332	27131	29871
85°	9067	28200	33380



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2852.4	3.2
10°-20°	8183.3	9.1
20°-30°	12375.7	13.7
30°-40°	14857.2	16.5
40°-50°	15345.1	17.0
50°-60°	13805.8	15.3
60°-70°	10399.7	11.5
70°-80°	6279.7	7.0
80°-90°	3071.3	3.4
90°-100°	1292.8	1.4
100°-110°	737.9	0.8
110°-120°	433.2	0.5
120°-130°	245.0	0.3
130°-140°	129.0	0.1
140°-150°	62.7	0.1
150°-160°	23.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	23411.4	26.0
0°-40°	38268.6	42.5
0°-60°	67419.5	74.8
0°-90°	87170.1	96.8
90°-120°	2463.9	2.7
90°-150°	2900.6	3.2
90°-180°	2924.0	3.2
0°-180°	90094.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	30103	30103	30103	30103	30103	
5°	29912	29993	29956	30074	30037	###
15°	28704	28843	28976	29219	29249	8092
25°	26213	26501	26876	27296	27363	12057
35°	22412	22935	23878	24600	24747	14011
45°	17689	18581	20135	21233	21461	13656
55°	12532	13829	15928	17129	17336	11236
65°	7647	9209	11272	11832	11700	7598
75°	3603	5172	6528	6697	6631	3843
85°	752	1982	3271	3720	3787	868
90°	0	774	1871	2358	2453	47
95°	37	523	1400	1783	1849	31
105°	52	302	810	1061	1105	52
115°	59	170	501	670	700	60
125°	59	81	302	435	457	53
135°	52	66	155	265	295	41
145°	74	66	74	133	155	44
155°	74	81	74	66	74	23
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°	30103.3	30103.3	30103.3	<i>30103.3</i>	30103.3
2.5°	<i>30014.9</i>	<i>30088.5</i>	<i>30044.3</i>	<i>30140.1</i>	<i>30132.7</i>
5°	29911.7	29992.8	29955.9	<i>30073.8</i>	30037.0
7.5°	29734.9	29823.3	29815.9	<i>29948.6</i>	29933.8
10°	29477.0	29572.8	29602.3	<i>29779.1</i>	29779.1
12.5°	29123.4	29248.7	29322.3	<i>29536.0</i>	29543.3
15°	28703.5	28843.4	28976.1	<i>29219.2</i>	29248.7
17.5°	28195.1	28371.9	28556.1	<i>28836.1</i>	28872.9
20°	27620.5	27819.4	28069.9	<i>28364.6</i>	28408.8
22.5°	26957.4	27193.1	27517.3	<i>27863.6</i>	27915.1
25°	26213.3	26500.6	26876.3	<i>27296.3</i>	27362.6
27.5°	25366.0	25697.6	26205.9	<i>26677.4</i>	26736.4
30°	24445.1	24835.6	25469.2	<i>26029.1</i>	26124.9
32.5°	23472.6	23922.0	24703.0	<i>25329.2</i>	25461.8
35°	22411.7	22934.8	23877.8	<i>24599.8</i>	24747.2
37.5°	21365.5	21940.2	23008.4	<i>23833.6</i>	24010.4
40°	20142.5	20857.2	22080.2	<i>22993.7</i>	23207.4
42.5°	18993.2	19766.8	21151.9	<i>22146.5</i>	22352.7
45°	17689.2	18580.6	20135.2	<i>21232.9</i>	21461.3
47.5°	16466.2	17431.3	19155.3	<i>20289.9</i>	20525.6
50°	15176.9	16237.8	18109.1	<i>19295.3</i>	19538.4
52.5°	13887.6	15029.5	17026.1	<i>18256.5</i>	18484.9
55°	12532.0	13828.6	15928.4	<i>17129.2</i>	17335.5
57.5°	11272.2	12642.5	14801.1	<i>15943.1</i>	16068.3
60°	10027.1	11449.0	13651.8	<i>14653.8</i>	14698.0
62.5°	8811.4	10307.0	12473.0	<i>13268.7</i>	13209.8
65°	7647.4	9209.3	11272.2	<i>11832.1</i>	11699.5
67.5°	6527.5	8141.0	10041.8	<i>10402.8</i>	10226.0
70°	5466.6	7102.2	8848.3	<i>9032.5</i>	8870.4
72.5°	4531.0	6115.0	7640.0	<i>7794.7</i>	7676.9
75°	3602.7	5171.9	6527.5	<i>6697.0</i>	6630.7
77.5°	2733.3	4258.4	5503.5	<i>5724.5</i>	5739.2
80°	1967.1	3425.8	4612.0	<i>4958.3</i>	5002.5
82.5°	1296.7	2659.6	3867.9	<i>4309.9</i>	4376.2
85°	751.5	1981.8	3271.1	<i>3720.5</i>	3786.9
87.5°	324.2	1429.3	2630.2	<i>3035.4</i>	3116.4
90°	0.0	773.6	1871.3	<i>2357.6</i>	2453.4
92.5°	22.1	641.0	1606.1	<i>2048.1</i>	2129.2
95°	36.8	523.1	1399.8	<i>1782.9</i>	1849.2
97.5°	44.2	442.0	1215.6	<i>1554.5</i>	1620.8
100°	44.2	383.1	1053.5	<i>1363.0</i>	1421.9
102.5°	44.2	338.9	920.9	<i>1193.5</i>	1245.1
105°	51.6	302.1	810.4	<i>1060.9</i>	1105.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	58.9	198.9	559.9	751.5	780.9
115°	58.9	169.5	501.0	670.4	699.9
117.5°	66.3	147.3	442.0	604.1	626.2
120°	66.3	125.2	390.5	537.8	567.3
122.5°	66.3	103.1	346.3	486.2	508.4
125°	58.9	81.0	302.1	434.7	456.8
127.5°	51.6	66.3	257.9	390.5	412.6
130°	51.6	58.9	221.0	346.3	368.4
132.5°	51.6	66.3	184.2	302.1	331.5
135°	51.6	66.3	154.7	265.2	294.7
137.5°	51.6	66.3	125.2	228.4	257.9
140°	58.9	66.3	103.1	191.6	221.0
142.5°	66.3	66.3	81.0	162.1	184.2
145°	73.7	66.3	73.7	132.6	154.7
147.5°	73.7	73.7	73.7	103.1	125.2
150°	73.7	81.0	73.7	81.0	103.1
152.5°	73.7	81.0	73.7	66.3	81.0
155°	73.7	81.0	73.7	66.3	73.7
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°	51.6	265.2	714.6	943.0	979.9
110°	51.6	235.8	633.6	839.9	876.7



(END OF REPORT)