

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: P829683

Luminaire Tested: **OHBL-100SE-MFL-UNV-L730-CD**

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P829683
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-100SE-MFL-UNV-L730-CD
Description: 100000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 3000K LEDS AND MEDIUM FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

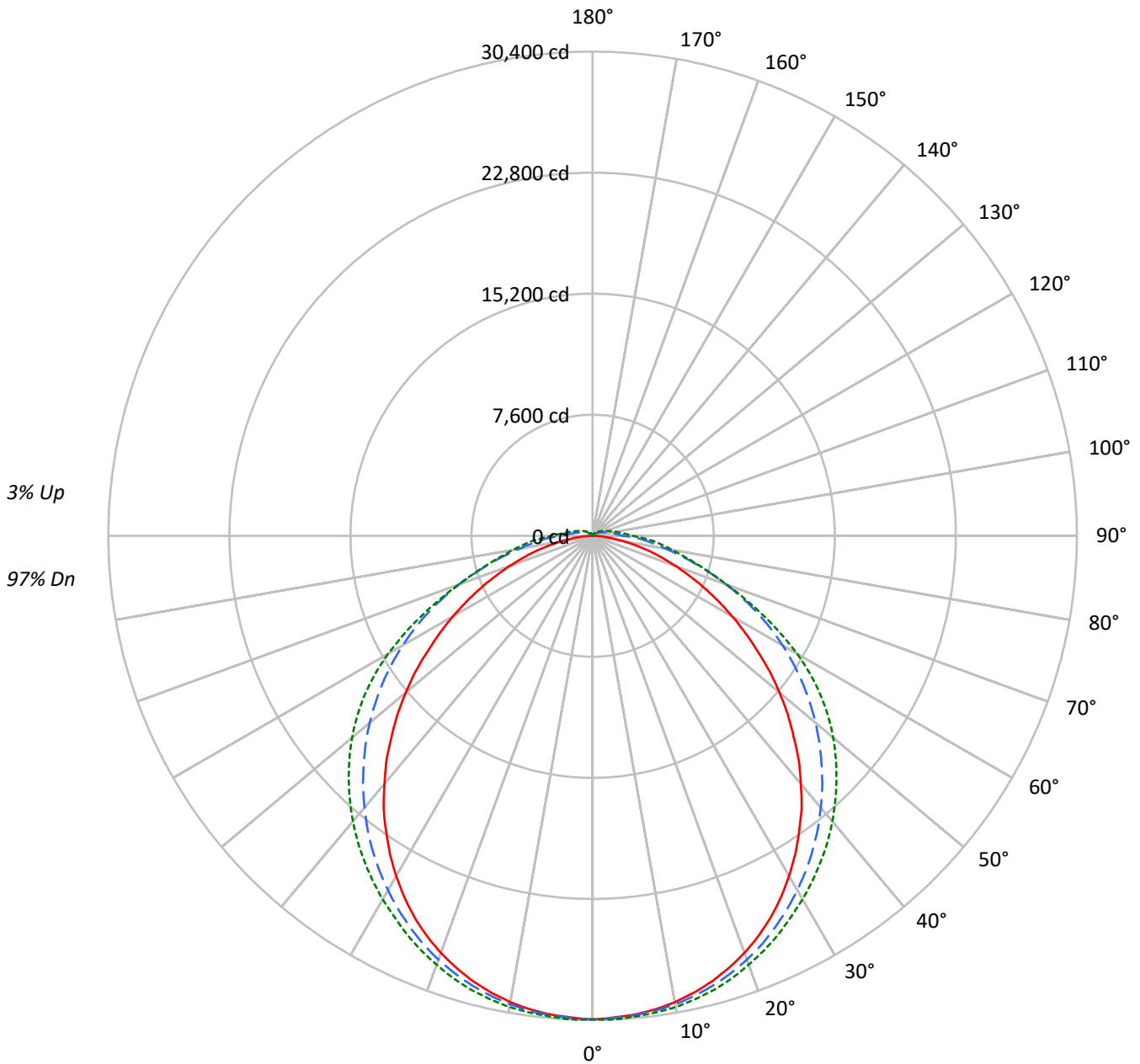
Lumens per Lamp: N/A
Luminaire Lumens: 90894.0 lumens
Efficiency: N/A
Efficacy: 154.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 590.1
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°	48030	48030	48030
5°	47723	47575	47721
10°	47388	47156	47471
15°	46859	46654	47143
20°	46157	46040	46663
25°	45218	45274	46177
30°	43919	44443	45688
35°	42346	43560	45266
40°	40456	42538	44851
45°	38228	41428	44321
50°	35791	40307	43677
55°	32795	38933	42589
60°	29727	37316	40418
65°	26378	35249	36850
70°	22747	32615	32987
75°	19071	29572	30377
80°	14459	27372	30136
85°	9147	28451	33676



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2877.8	3.2
10°-20°	8255.9	9.1
20°-30°	12485.6	13.7
30°-40°	14989.1	16.5
40°-50°	15481.3	17.0
50°-60°	13928.4	15.3
60°-70°	10492.0	11.5
70°-80°	6335.4	7.0
80°-90°	3098.5	3.4
90°-100°	1304.2	1.4
100°-110°	744.5	0.8
110°-120°	437.0	0.5
120°-130°	247.2	0.3
130°-140°	130.1	0.1
140°-150°	63.3	0.1
150°-160°	23.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	23619.3	26.0
0°-40°	38608.4	42.5
0°-60°	68018.1	74.8
0°-90°	87944.1	96.8
90°-120°	2485.8	2.7
90°-150°	2926.4	3.2
90°-180°	2950.0	3.2
0°-180°	90894.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	30371	30371	30371	30371	30371	
5°	30177	30259	30222	30341	30304	###
15°	28958	29100	29233	29479	29508	8164
25°	26446	26736	27115	27539	27606	12164
35°	22611	23138	24090	24818	24967	14135
45°	17846	18746	20314	21421	21652	13778
55°	12643	13951	16070	17281	17490	11336
65°	7715	9291	11372	11937	11803	7665
75°	3635	5218	6586	6756	6690	3878
85°	758	1999	3300	3754	3820	876
90°	0	780	1888	2378	2475	48
95°	37	528	1412	1799	1866	31
105°	52	305	818	1070	1115	52
115°	60	171	505	676	706	61
125°	60	82	305	438	461	54
135°	52	67	156	268	297	41
145°	74	67	74	134	156	44
155°	74	82	74	67	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°	30370.6	30370.6	30370.6	30370.6	30370.6
2.5°	30281.4	30355.7	30311.1	30407.7	30400.3
5°	30177.3	30259.1	30221.9	30340.8	30303.7
7.5°	29998.9	30088.1	30080.7	30214.5	30199.6
10°	29738.8	29835.4	29865.1	30043.5	30043.5
12.5°	29382.0	29508.4	29582.7	29798.2	29805.7
15°	28958.3	29099.6	29233.4	29478.6	29508.4
17.5°	28445.5	28623.9	28809.7	29092.1	29129.3
20°	27865.7	28066.4	28319.1	28616.4	28661.0
22.5°	27196.8	27434.6	27761.7	28111.0	28163.0
25°	26446.0	26735.9	27115.0	27538.7	27605.6
27.5°	25591.3	25925.7	26438.6	26914.3	26973.8
30°	24662.2	25056.1	25695.3	26260.2	26356.8
32.5°	23681.0	24134.4	24922.3	25554.1	25687.9
35°	22610.7	23138.4	24089.8	24818.2	24966.9
37.5°	21555.2	22135.0	23212.8	24045.2	24223.6
40°	20321.4	21042.4	22276.2	23197.9	23413.4
42.5°	19161.9	19942.3	21339.7	22343.1	22551.2
45°	17846.2	18745.6	20313.9	21421.4	21651.9
47.5°	16612.4	17586.1	19325.4	20470.0	20707.9
50°	15311.6	16382.0	18269.9	19466.6	19711.9
52.5°	14010.9	15163.0	17177.3	18418.6	18649.0
55°	12643.3	13951.4	16069.8	17281.3	17489.5
57.5°	11372.2	12754.8	14932.6	16084.7	16211.0
60°	10116.1	11550.6	13773.0	14783.9	14828.5
62.5°	8889.7	10398.5	12583.8	13386.5	13327.1
65°	7715.3	9291.0	11372.2	11937.1	11803.3
67.5°	6585.5	8213.3	10131.0	10495.2	10316.8
70°	5515.2	7165.3	8926.8	9112.7	8949.1
72.5°	4571.2	6169.3	7707.9	7863.9	7745.0
75°	3634.7	5217.9	6585.5	6756.5	6689.6
77.5°	2757.6	4296.2	5552.3	5775.3	5790.2
80°	1984.6	3456.3	4653.0	5002.3	5046.9
82.5°	1308.2	2683.3	3902.2	4348.2	4415.1
85°	758.1	1999.4	3300.2	3753.6	3820.5
87.5°	327.0	1442.0	2653.5	3062.3	3144.1
90°	0.0	780.4	1887.9	2378.5	2475.1
92.5°	22.3	646.7	1620.4	2066.3	2148.1
95°	37.2	527.7	1412.2	1798.7	1865.6
97.5°	44.6	446.0	1226.4	1568.3	1635.2
100°	44.6	386.5	1062.9	1375.1	1434.5
102.5°	44.6	341.9	929.1	1204.1	1256.1
105°	52.0	304.7	817.6	1070.3	1114.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	59.5	200.7	564.9	758.1	787.9
115°	59.5	171.0	505.4	676.4	706.1
117.5°	66.9	148.7	446.0	609.5	631.8
120°	66.9	126.4	393.9	542.6	572.3
122.5°	66.9	104.1	349.3	490.6	512.9
125°	59.5	81.8	304.7	438.5	460.8
127.5°	52.0	66.9	260.1	393.9	416.2
130°	52.0	59.5	223.0	349.3	371.6
132.5°	52.0	66.9	185.8	304.7	334.5
135°	52.0	66.9	156.1	267.6	297.3
137.5°	52.0	66.9	126.4	230.4	260.1
140°	59.5	66.9	104.1	193.3	223.0
142.5°	66.9	66.9	81.8	163.5	185.8
145°	74.3	66.9	74.3	133.8	156.1
147.5°	74.3	74.3	74.3	104.1	126.4
150°	74.3	81.8	74.3	81.8	104.1
152.5°	74.3	81.8	74.3	66.9	81.8
155°	74.3	81.8	74.3	66.9	74.3
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°	52.0	267.6	721.0	951.4	988.6
110°	52.0	237.9	639.2	847.3	884.5



(END OF REPORT)