

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: P830790

Luminaire Tested: **OHBL-72SE-NL-UNV-L750-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830790
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P472951)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-72SE-NL-UNV-L750-CD
Description: 72000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 5000K LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

Summary

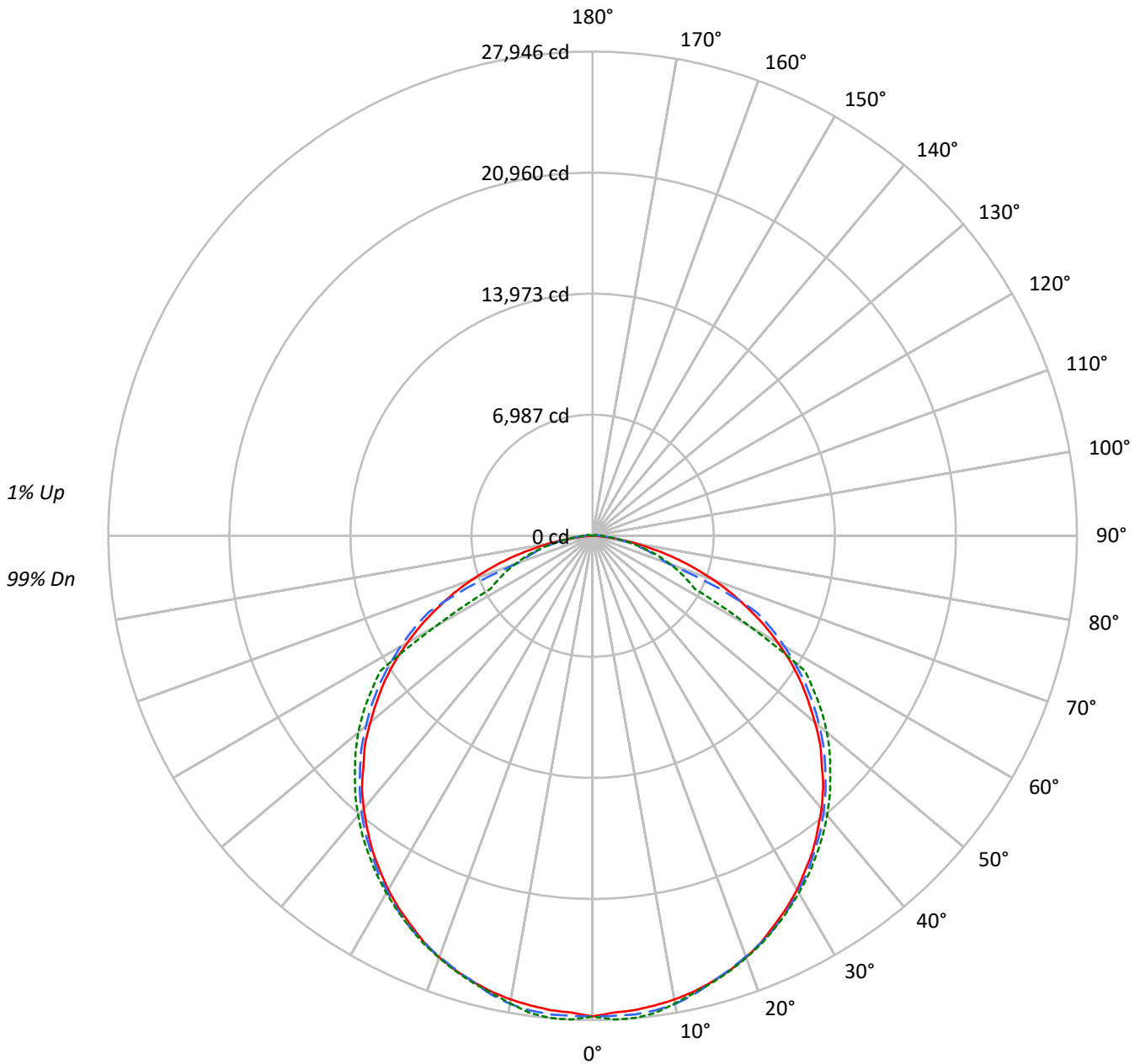
Lumens per Lamp: N/A
Luminaire Lumens: 77890.0 lumens
Efficiency: N/A
Efficacy: 188.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular (W 1.8' x L: 3.78' x H: 0')
CIE Type: Direct

Input Watts (W): 413.7
Input Voltage (V): NR
Input Current (Ain): 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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102					99				
1	109	105	100	97	106	102	99	95	98	95	92	94	91	89	90	88	86					84				
2	99	92	85	79	97	90	84	78	86	81	76	83	78	75	80	76	73					71				
3	91	81	73	66	88	79	72	66	76	70	64	73	68	63	70	66	62					60				
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53					51				
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46					44				
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	45	41					39				
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36					34				
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32					30				
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29					27				
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26					25				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	43874	43874	43874
5°	43632	44026	44358
10°	43644	44058	44004
15°	43636	43628	43724
20°	43577	43511	43617
25°	43279	43499	43533
30°	43078	43300	43470
35°	42799	43034	43438
40°	42430	42832	43465
45°	41818	42449	43375
50°	41188	42027	43415
55°	40400	41447	42937
60°	39046	40432	33427
65°	36942	39091	22497
70°	34168	20752	21834
75°	29804	19720	20850
80°	22920	18090	19108
85°	11568	18283	18722



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2635.6	3.4
10°-20°	7546.5	9.7
20°-30°	11482.7	14.7
30°-40°	13961.3	17.9
40°-50°	14679.7	18.8
50°-60°	13404.3	17.2
60°-70°	8592.8	11.0
70°-80°	4059.1	5.2
80°-90°	1125.6	1.4
90°-100°	298.1	0.4
100°-110°	81.6	0.1
110°-120°	22.6	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	21664.8	27.8
0°-40°	35626.2	45.7
0°-60°	63710.2	81.8
0°-90°	77487.7	99.5
90°-120°	402.3	0.5
90°-150°	402.3	0.5
90°-180°	402.0	0.5
0°-180°	77890.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	27742	27742	27742	27742	27742	
5°	27484	27591	27733	27884	27942	###
15°	26652	26851	26647	26686	26706	7524
25°	24802	24841	24928	24968	24948	11444
35°	22169	22037	22290	22563	22499	13854
45°	18698	18664	18980	19428	19394	14452
55°	14652	14540	15032	15534	15573	13067
65°	9872	9872	10446	5992	6012	9787
75°	4878	4970	3227	3398	3412	5142
85°	638	808	1008	1090	1032	942
90°	0	273	448	530	521	28
95°	14	141	322	433	433	8
105°	24	54	78	78	73	24
115°	24	34	48	34	5	17
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CATALOG NUMBER: OHBL-72SE-NL-UNV-L750-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	27742.4	27742.4	27742.4	27742.4	27742.4
2.5°	27547.6	27640.4	27742.4	27873.8	27946.5
5°	27484.2	27591.4	27732.6	27883.6	27941.9
7.5°	27348.1	27498.6	27635.2	27742.4	27776.4
10°	27177.6	27357.9	27435.8	27426.0	27401.7
12.5°	26948.7	27138.9	27114.7	27002.3	27021.9
15°	26651.9	26851.3	26647.2	26685.9	26705.5
17.5°	26301.4	26496.2	26257.6	26335.4	26340.6
20°	25892.7	26038.6	25853.5	25916.9	25916.9
22.5°	25401.0	25503.1	25425.3	25469.1	25478.9
25°	24802.2	24840.8	24928.4	24967.6	24948.0
27.5°	24228.0	24179.1	24349.7	24441.9	24393.0
30°	23590.0	23512.2	23711.6	23862.6	23804.4
32.5°	22859.7	22811.3	23040.1	23219.9	23185.9
35°	22168.6	22037.2	22290.2	22562.8	22499.4
37.5°	21350.7	21272.8	21559.9	21847.5	21813.5
40°	20552.3	20420.9	20747.2	21087.8	21053.8
42.5°	19695.8	19539.6	19895.2	20304.4	20265.3
45°	18697.5	18663.5	18979.9	19427.8	19393.8
47.5°	17812.1	17641.5	18084.2	18517.6	18556.8
50°	16740.6	16677.7	17081.8	17607.5	17646.1
52.5°	15694.4	15650.6	16073.7	16604.5	16672.6
55°	14652.3	14540.4	15032.1	15533.6	15572.7
57.5°	13538.0	13421.0	13922.5	14467.8	14550.2
60°	12344.9	12233.1	12783.0	13289.6	10568.4
62.5°	11152.3	11074.5	11649.1	8251.2	6650.0
65°	9872.1	9872.1	10446.2	5992.3	6011.9
67.5°	8674.9	8597.1	7788.9	5383.7	5383.7
70°	7389.5	7418.9	4487.9	4717.3	4721.9
72.5°	6099.5	6206.7	3875.1	4059.7	4069.4
75°	4877.6	4970.3	3227.3	3397.9	3412.3
77.5°	3582.9	2755.2	2594.4	2726.4	2731.0
80°	2516.6	1737.9	1986.3	2112.5	2098.1
82.5°	1469.9	1216.8	1455.4	1548.2	1543.0
85°	637.5	808.1	1007.6	1090.5	1031.8
87.5°	204.1	501.5	627.7	676.7	671.5
90°	0.0	272.6	447.9	530.3	521.0
92.5°	0.0	213.9	389.6	487.0	491.7
95°	14.4	141.2	321.6	433.4	433.4
97.5°	9.8	102.0	228.8	340.7	350.5
100°	9.8	82.5	151.0	243.3	248.4
102.5°	24.2	68.0	92.3	155.6	160.8
105°	24.2	53.6	77.8	77.8	73.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	29.4	39.2	53.6	39.2	4.6
115°	24.2	34.0	48.4	34.0	4.6
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
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°	24.2	48.4	68.0	43.8	14.4
110°	29.4	43.8	58.2	39.2	4.6



(END OF REPORT)