

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: P830793

Luminaire Tested: **OHBL-72SE-NL-UNV-L840-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830793
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-L840-CD
Description: 72000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

Summary

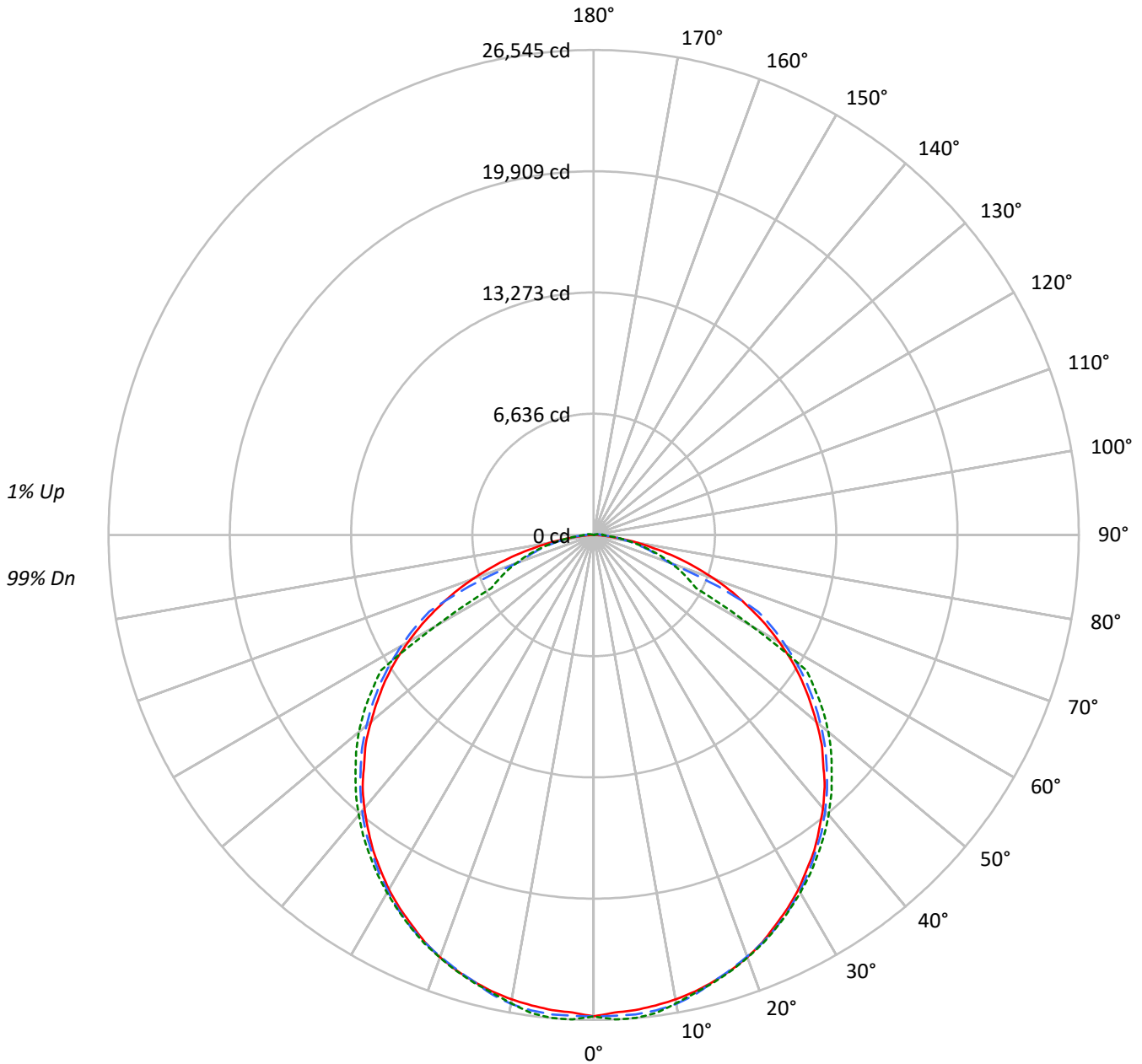
Lumens per Lamp: N/A
Luminaire Lumens: 73985.0 lumens
Efficiency: N/A
Efficacy: 178.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular (W 1.8' x L: 3.78' x H: 0')
CIE Type: Direct

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°	41674	41674	41674
5°	41444	41819	42134
10°	41456	41850	41798
15°	41448	41441	41532
20°	41392	41329	41431
25°	41109	41318	41351
30°	40919	41130	41291
35°	40654	40877	41260
40°	40303	40684	41286
45°	39721	40321	41200
50°	39123	39920	41239
55°	38374	39369	40785
60°	37089	38405	31751
65°	35090	37131	21369
70°	32456	19711	20739
75°	28309	18731	19805
80°	21770	17183	18150
85°	10989	17367	17784



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2503.5	3.4
10°-20°	7168.2	9.7
20°-30°	10907.0	14.7
30°-40°	13261.4	17.9
40°-50°	13943.7	18.8
50°-60°	12732.3	17.2
60°-70°	8162.0	11.0
70°-80°	3855.6	5.2
80°-90°	1069.1	1.4
90°-100°	283.1	0.4
100°-110°	77.5	0.1
110°-120°	21.5	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°	20578.7	27.8
0°-40°	33840.1	45.7
0°-60°	60516.1	81.8
0°-90°	73602.9	99.5
90°-120°	382.1	0.5
90°-150°	382.1	0.5
90°-180°	382.0	0.5
0°-180°	73985.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	26352	26352	26352	26352	26352	
5°	26106	26208	26342	26486	26541	###
15°	25316	25505	25311	25348	25367	7147
25°	23559	23595	23679	23716	23697	10871
35°	21057	20932	21173	21432	21371	13159
45°	17760	17728	18028	18454	18422	13728
55°	13918	13811	14278	14755	14792	12412
65°	9377	9377	9922	5692	5710	9297
75°	4633	4721	3066	3228	3241	4884
85°	606	768	957	1036	980	895
90°	0	259	425	504	495	27
95°	14	134	306	412	412	8
105°	23	51	74	74	70	23
115°	23	32	46	32	4	16
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-L840-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	26351.6	26351.6	26351.6	26351.6	26351.6
2.5°	26166.5	26254.6	26351.6	26476.4	26545.4
5°	26106.3	26208.1	26342.3	26485.7	26541.0
7.5°	25977.1	26120.0	26249.7	26351.6	26383.9
10°	25815.0	25986.4	26060.3	26051.0	26028.0
12.5°	25597.7	25778.3	25755.3	25648.6	25667.2
15°	25315.7	25505.1	25311.3	25348.0	25366.6
17.5°	24982.8	25167.8	24941.2	25015.1	25020.0
20°	24594.6	24733.1	24557.4	24617.6	24617.6
22.5°	24127.6	24224.5	24150.6	24192.2	24201.5
25°	23558.7	23595.4	23678.7	23715.9	23697.3
27.5°	23013.4	22966.9	23128.9	23216.5	23170.0
30°	22407.3	22333.4	22522.8	22666.3	22611.0
32.5°	21713.6	21667.6	21885.0	22055.8	22023.5
35°	21057.2	20932.3	21172.7	21431.7	21371.4
37.5°	20280.3	20206.3	20479.0	20752.2	20719.9
40°	19522.0	19397.1	19707.0	20030.6	19998.3
42.5°	18708.3	18560.0	18897.8	19286.5	19249.3
45°	17760.1	17727.8	18028.4	18453.8	18421.5
47.5°	16919.1	16757.0	17177.5	17589.2	17626.4
50°	15901.3	15841.6	16225.4	16724.7	16761.4
52.5°	14907.5	14865.9	15267.8	15772.1	15836.7
55°	13917.7	13811.4	14278.5	14754.8	14792.0
57.5°	12859.3	12748.2	13224.5	13742.4	13820.7
60°	11726.0	11619.8	12142.1	12623.3	10038.5
62.5°	10593.2	10519.3	11065.1	7837.6	6316.6
65°	9377.2	9377.2	9922.5	5691.9	5710.5
67.5°	8240.0	8166.0	7398.4	5113.8	5113.8
70°	7019.1	7047.0	4262.9	4480.8	4485.2
72.5°	5793.7	5895.6	3680.9	3856.1	3865.4
75°	4633.0	4721.1	3065.5	3227.5	3241.3
77.5°	3403.3	2617.1	2464.4	2589.7	2594.1
80°	2390.4	1650.7	1886.7	2006.6	1992.9
82.5°	1396.2	1155.8	1382.5	1470.6	1465.7
85°	605.6	767.6	957.1	1035.9	980.1
87.5°	193.9	476.3	596.3	642.8	637.9
90°	0.0	259.0	425.4	503.7	494.9
92.5°	0.0	203.2	370.1	462.6	467.0
95°	13.7	134.1	305.5	411.7	411.7
97.5°	9.3	96.9	217.4	323.6	332.9
100°	9.3	78.3	143.4	231.1	236.0
102.5°	23.0	64.6	87.6	147.8	152.7
105°	23.0	50.9	73.9	73.9	69.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	27.9	37.2	50.9	37.2	4.4
115°	23.0	32.3	46.0	32.3	4.4
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°	23.0	46.0	64.6	41.6	13.7
110°	27.9	41.6	55.3	37.2	4.4



(END OF REPORT)