

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: P830758

Luminaire Tested: **OHBL-72SE-MCL-UNV-L850-CD**

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P830758
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-200-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-72SE-MCL-UNV-L850-CD
Description: 72000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND MEDIUM CLEAR LENS
Light Source: -
Ballast/Driver: -

Summary

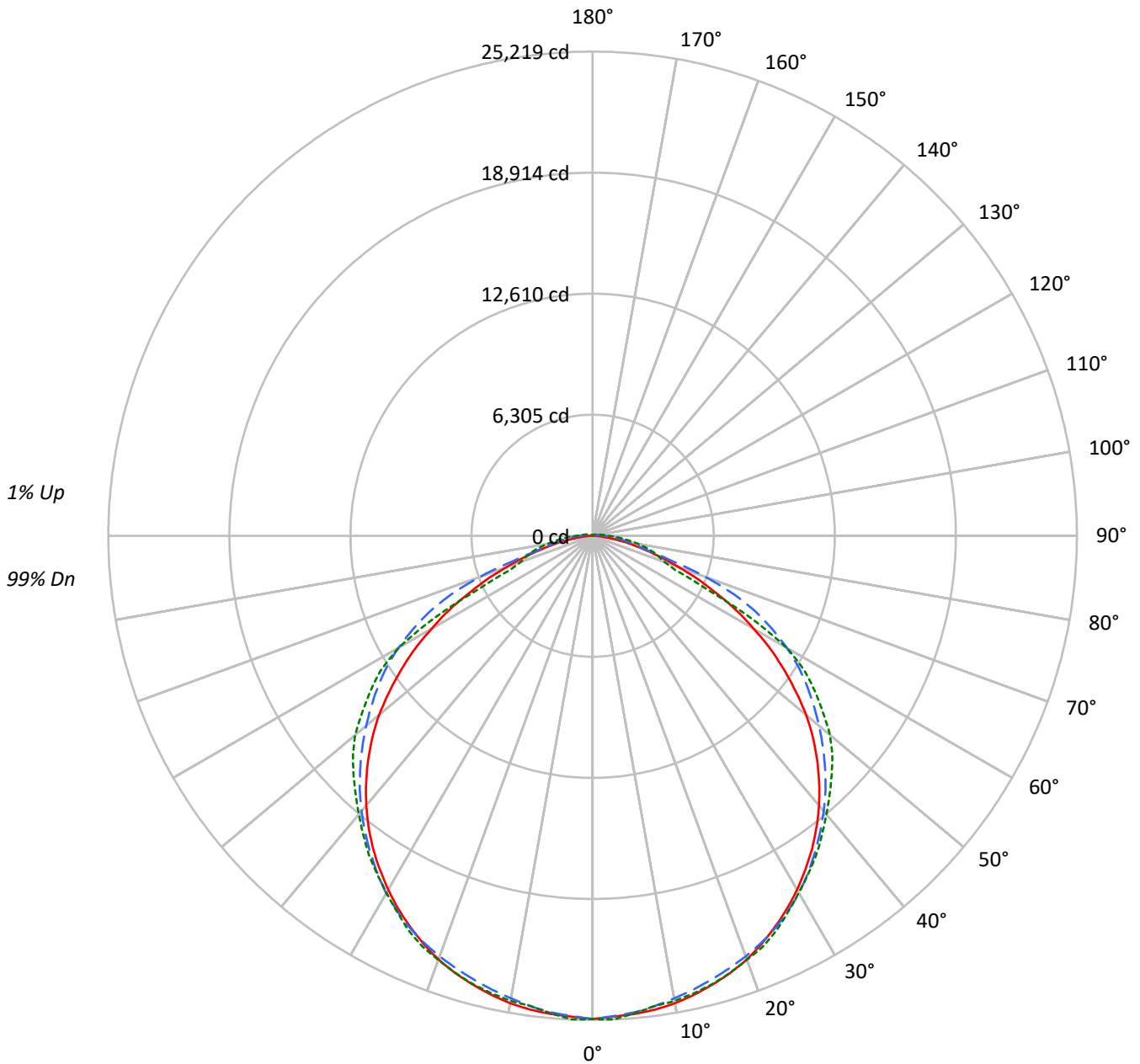
Lumens per Lamp: N/A
Luminaire Lumens: 71135.0 lumens
Efficiency: N/A
Efficacy: 171.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 413.7
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	119	119	119	119	116	116	116	116	110	110	110	106	106	106	101	101	101				99																
1	109	104	100	96	106	102	98	95	97	94	91	93	91	88	90	87	86				83																
2	99	91	84	79	96	89	83	78	85	80	76	82	78	74	79	75	72				70																
3	91	80	72	66	88	79	71	65	75	69	64	72	67	63	70	65	61				59																
4	83	71	62	56	81	70	62	55	67	60	54	65	59	54	62	57	53				51																
5	76	64	55	48	74	62	54	48	60	53	47	58	52	46	56	50	46				44																
6	70	57	48	42	68	56	48	42	54	47	41	52	46	41	51	45	40				38																
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36				34																
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	42	36	32				30																
9	57	43	35	30	55	43	35	29	41	34	29	40	34	29	39	33	29				27																
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	36	30	26				24																

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	39802	39802	39802
5°	39542	39224	39306
10°	39397	38630	38870
15°	39147	38185	38609
20°	38897	37906	38268
25°	38428	37623	37929
30°	37917	37179	37211
35°	37307	36474	36816
40°	36513	35746	36277
45°	35414	34903	36038
50°	33923	33944	35753
55°	31556	33000	34418
60°	28456	31619	31820
65°	24410	29056	20166
70°	19661	22682	14621
75°	14741	13465	14839
80°	10261	11196	14168
85°	5840	10259	13280



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2373.1	3.3
10°-20°	6804.9	9.6
20°-30°	10393.2	14.6
30°-40°	12610.5	17.7
40°-50°	13217.0	18.6
50°-60°	11976.6	16.8
60°-70°	8029.8	11.3
70°-80°	3605.7	5.1
80°-90°	1308.5	1.8
90°-100°	393.9	0.6
100°-110°	185.8	0.3
110°-120°	93.1	0.1
120°-130°	51.4	0.1
130°-140°	35.3	0.0
140°-150°	23.8	0.0
150°-160°	17.6	0.0
160°-170°	11.3	0.0
170°-180°	3.6	0.0
0°-30°	19571.1	27.5
0°-40°	32181.6	45.2
0°-60°	57375.1	80.7
0°-90°	70319.1	98.9
90°-120°	672.8	0.9
90°-150°	783.3	1.1
90°-180°	816.0	1.1
0°-180°	71135.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	25168	25168	25168	25168	25168	
5°	25004	25091	24916	24993	24960	###
15°	24192	24098	23927	24138	24167	6831
25°	22475	22376	22533	22740	22675	10360
35°	19920	19967	20171	20386	20306	12451
45°	16532	16802	17114	17551	17606	12735
55°	12165	12751	13621	14167	14134	10859
65°	7140	8257	9374	7911	6459	7114
75°	2809	4076	2999	3068	3268	3070
85°	484	928	1190	1437	1507	591
90°	4	309	615	772	808	29
95°	4	193	422	513	528	5
105°	15	84	207	251	262	17
115°	29	44	106	135	142	27
125°	26	29	66	76	80	25
135°	33	36	40	58	62	26
145°	33	36	36	40	44	22
155°	36	40	40	40	36	17
165°	40	40	40	40	40	11
175°	40	40	36	33	33	4
180°	36	36	36	36	36	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	25167.6	25167.6	25167.6	25167.6	25167.6
2.5°	25065.7	25171.3	25040.3	25182.2	25218.6
5°	25003.9	25091.2	24916.5	24992.9	24960.2
7.5°	24891.1	24920.2	24712.7	24774.6	24709.1
10°	24723.7	24709.1	24465.3	24585.4	24599.9
12.5°	24476.2	24432.5	24214.2	24396.1	24399.8
15°	24192.4	24097.7	23926.7	24137.8	24166.9
17.5°	23864.8	23741.1	23628.3	23901.2	23857.6
20°	23482.7	23337.2	23315.4	23613.8	23504.6
22.5°	23009.7	22896.9	22947.8	23231.7	23162.5
25°	22474.7	22376.5	22533.0	22740.4	22674.9
27.5°	21910.7	21852.5	22030.8	22190.9	22063.5
30°	21292.0	21259.3	21495.8	21626.8	21466.7
32.5°	20618.8	20629.7	20855.4	21033.7	20884.5
35°	19920.1	19967.4	20171.2	20385.9	20305.9
37.5°	19152.3	19257.8	19461.6	19705.4	19621.7
40°	18340.8	18493.6	18719.2	19014.0	18937.6
42.5°	17463.8	17656.6	17947.8	18275.3	18268.0
45°	16532.2	16801.5	17114.4	17551.1	17605.7
47.5°	15564.2	15866.2	16262.9	16845.1	16928.8
50°	14512.5	14891.0	15385.9	16084.6	16135.5
52.5°	13340.7	13857.5	14512.5	15182.1	15120.2
55°	12165.3	12751.2	13620.9	14166.8	14134.0
57.5°	10993.5	11652.2	12707.5	13096.9	13093.3
60°	9683.5	10516.8	11670.4	11965.2	11674.1
62.5°	8471.7	9366.9	10564.1	10349.4	9352.3
65°	7139.8	8257.0	9374.2	7911.3	6459.3
67.5°	5957.1	7121.6	7962.2	5418.5	4639.8
70°	4767.1	6051.7	6208.2	4021.1	3966.6
72.5°	3711.8	5080.1	4283.2	3442.5	3617.2
75°	2809.3	4075.7	2998.6	3067.7	3267.9
77.5°	2048.8	3129.6	2332.6	2689.3	2853.0
80°	1408.3	2216.2	1903.2	2259.8	2372.7
82.5°	884.3	1462.9	1524.8	1819.5	1936.0
85°	484.0	928.0	1190.0	1437.4	1506.6
87.5°	200.1	560.4	909.8	1109.9	1168.1
90°	3.6	309.3	615.0	771.5	807.9
92.5°	3.6	236.5	502.2	622.3	647.7
95°	3.6	192.9	422.1	513.1	527.7
97.5°	7.3	152.8	353.0	425.8	440.3
100°	10.9	127.4	294.8	356.6	367.5
102.5°	14.6	101.9	247.5	298.4	309.3
105°	14.6	83.7	207.4	251.1	262.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	25.5	50.9	123.7	156.5	163.8
115°	29.1	43.7	105.5	134.6	141.9
117.5°	29.1	36.4	91.0	112.8	120.1
120°	29.1	32.8	80.1	98.3	101.9
122.5°	29.1	29.1	69.1	87.3	91.0
125°	25.5	29.1	65.5	76.4	80.1
127.5°	29.1	29.1	58.2	69.1	72.8
130°	29.1	32.8	50.9	65.5	65.5
132.5°	32.8	36.4	47.3	61.9	61.9
135°	32.8	36.4	40.0	58.2	61.9
137.5°	36.4	36.4	36.4	54.6	58.2
140°	36.4	36.4	32.8	47.3	50.9
142.5°	32.8	36.4	32.8	43.7	47.3
145°	32.8	36.4	36.4	40.0	43.7
147.5°	36.4	36.4	36.4	36.4	40.0
150°	36.4	36.4	36.4	36.4	36.4
152.5°	36.4	36.4	36.4	36.4	36.4
155°	36.4	40.0	40.0	40.0	36.4
157.5°	36.4	40.0	40.0	40.0	40.0
160°	36.4	40.0	40.0	40.0	40.0
162.5°	40.0	40.0	40.0	40.0	40.0
165°	40.0	40.0	40.0	40.0	40.0
167.5°	40.0	43.7	40.0	40.0	40.0
170°	40.0	40.0	40.0	36.4	36.4
172.5°	40.0	40.0	40.0	36.4	36.4
175°	40.0	40.0	36.4	32.8	32.8
177.5°	43.7	40.0	36.4	32.8	29.1
180°	36.4	36.4	36.4	36.4	36.4



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







107.5°	18.2	69.1	178.3	214.7	222.0
110°	21.8	58.2	149.2	182.0	189.2



(END OF REPORT)