

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: P830757

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

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P830757
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-L840-CD
Description: 72000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND MEDIUM CLEAR LENS
Light Source: -
Ballast/Driver: -

Summary

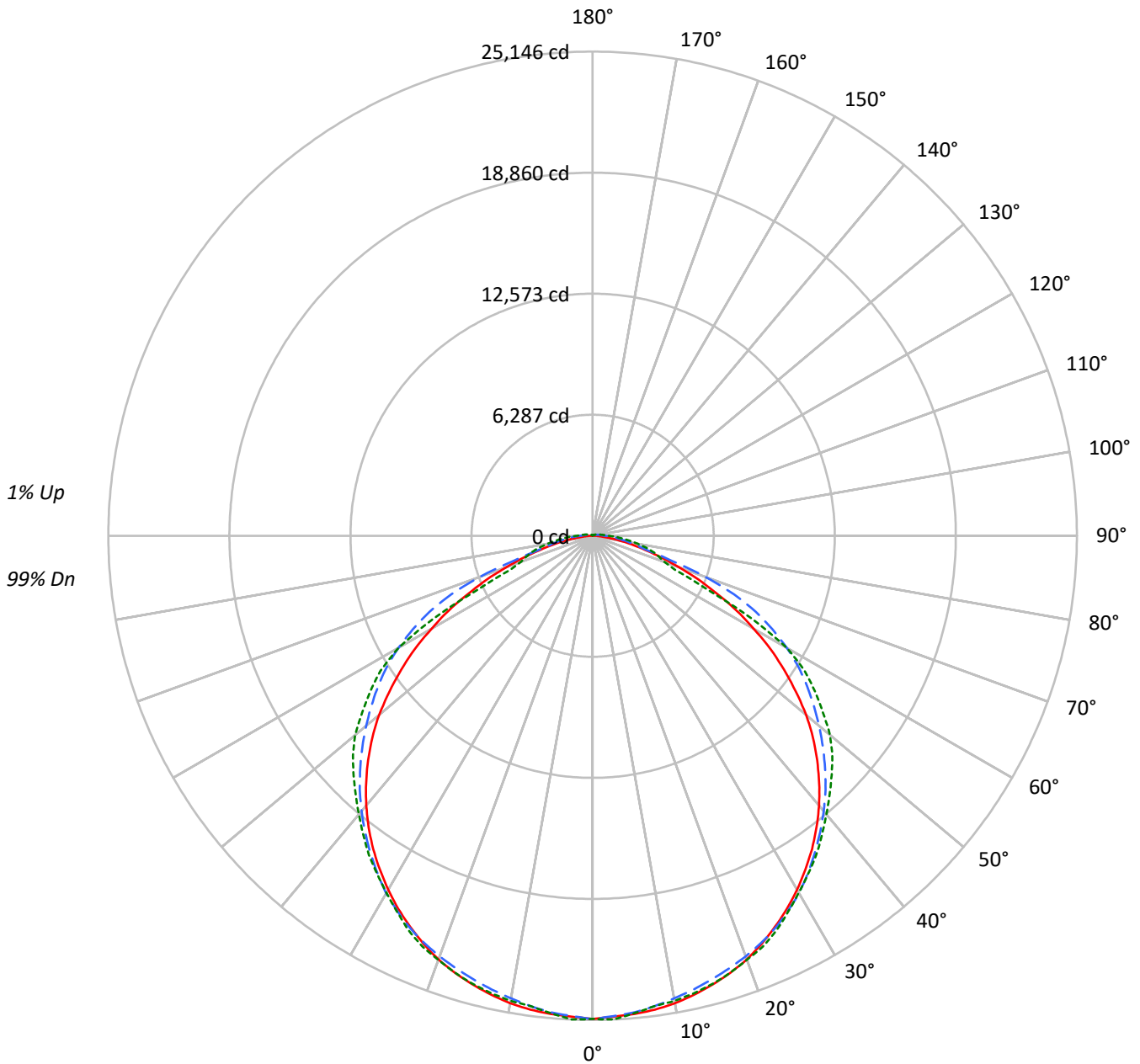
Lumens per Lamp: N/A
Luminaire Lumens: 70929.0 lumens
Efficiency: N/A
Efficacy: 171.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

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°	39687	39687	39687
5°	39427	39110	39192
10°	39283	38518	38757
15°	39033	38075	38498
20°	38784	37796	38157
25°	38316	37514	37819
30°	37807	37072	37104
35°	37199	36369	36709
40°	36408	35642	36172
45°	35311	34802	35934
50°	33825	33846	35649
55°	31464	32905	34319
60°	28373	31528	31728
65°	24339	28972	20108
70°	19604	22617	14579
75°	14698	13426	14796
80°	10231	11163	14127
85°	5823	10229	13241



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2366.2	3.3
10°-20°	6785.1	9.6
20°-30°	10363.1	14.6
30°-40°	12573.9	17.7
40°-50°	13178.7	18.6
50°-60°	11941.9	16.8
60°-70°	8006.6	11.3
70°-80°	3595.3	5.1
80°-90°	1304.7	1.8
90°-100°	392.7	0.6
100°-110°	185.3	0.3
110°-120°	92.9	0.1
120°-130°	51.2	0.1
130°-140°	35.2	0.0
140°-150°	23.7	0.0
150°-160°	17.6	0.0
160°-170°	11.3	0.0
170°-180°	3.6	0.0
0°-30°	19514.4	27.5
0°-40°	32088.4	45.2
0°-60°	57208.9	80.7
0°-90°	70115.5	98.9
90°-120°	670.9	0.9
90°-150°	781.0	1.1
90°-180°	814.0	1.1
0°-180°	70929.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	25095	25095	25095	25095	25095	
5°	24932	25018	24844	24921	24888	###
15°	24122	24028	23857	24068	24097	6811
25°	22410	22312	22468	22674	22609	10330
35°	19862	19910	20113	20327	20247	12415
45°	16484	16753	17065	17500	17555	12699
55°	12130	12714	13582	14126	14093	10828
65°	7119	8233	9347	7888	6441	7093
75°	2801	4064	2990	3059	3258	3061
85°	483	925	1186	1433	1502	589
90°	4	308	613	769	806	29
95°	4	192	421	512	526	5
105°	14	84	207	250	261	17
115°	29	44	105	134	142	27
125°	25	29	65	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°	25094.7	25094.7	25094.7	25094.7	25094.7
2.5°	24993.1	25098.4	24967.7	25109.3	25145.5
5°	24931.5	25018.5	24844.4	24920.6	24887.9
7.5°	24819.0	24848.0	24641.2	24702.9	24637.5
10°	24652.1	24637.5	24394.4	24514.2	24528.7
12.5°	24405.3	24361.8	24144.1	24325.5	24329.1
15°	24122.3	24028.0	23857.4	24067.9	24096.9
17.5°	23795.7	23672.4	23559.9	23832.0	23788.5
20°	23414.7	23269.6	23247.8	23545.4	23436.5
22.5°	22943.0	22830.6	22881.4	23164.4	23095.4
25°	22409.6	22311.7	22467.7	22674.5	22609.2
27.5°	21847.2	21789.2	21967.0	22126.6	21999.6
30°	21230.4	21197.7	21433.6	21564.2	21404.6
32.5°	20559.1	20570.0	20795.0	20972.8	20824.0
35°	19862.4	19909.6	20112.8	20326.9	20247.1
37.5°	19096.8	19202.0	19405.2	19648.4	19564.9
40°	18287.7	18440.1	18665.0	18958.9	18882.7
42.5°	17413.2	17605.5	17895.8	18222.4	18215.1
45°	16484.3	16752.8	17064.9	17500.3	17554.7
47.5°	15519.1	15820.3	16215.8	16796.3	16879.8
50°	14470.5	14847.8	15341.3	16038.0	16088.8
52.5°	13302.1	13817.3	14470.5	15138.1	15076.4
55°	12130.1	12714.3	13581.5	14125.8	14093.1
57.5°	10961.7	11618.5	12670.7	13059.0	13055.4
60°	9655.5	10486.4	11636.6	11930.5	11640.2
62.5°	8447.2	9339.8	10533.5	10319.5	9325.3
65°	7119.1	8233.1	9347.0	7888.4	6440.6
67.5°	5939.9	7101.0	7939.2	5402.8	4626.3
70°	4753.3	6034.2	6190.2	4009.5	3955.1
72.5°	3701.1	5065.4	4270.8	3432.6	3606.7
75°	2801.2	4063.9	2989.9	3058.8	3258.4
77.5°	2042.8	3120.5	2325.9	2681.5	2844.7
80°	1404.2	2209.8	1897.7	2253.3	2365.8
82.5°	881.7	1458.7	1520.3	1814.3	1930.4
85°	482.6	925.3	1186.5	1433.3	1502.2
87.5°	199.6	558.8	907.1	1106.7	1164.8
90°	3.6	308.4	613.2	769.2	805.5
92.5°	3.6	235.9	500.7	620.5	645.9
95°	3.6	192.3	420.9	511.6	526.1
97.5°	7.3	152.4	352.0	424.5	439.0
100°	10.9	127.0	293.9	355.6	366.5
102.5°	14.5	101.6	246.7	297.5	308.4
105°	14.5	83.5	206.8	250.4	261.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	25.4	50.8	123.4	156.0	163.3
115°	29.0	43.5	105.2	134.3	141.5
117.5°	29.0	36.3	90.7	112.5	119.7
120°	29.0	32.7	79.8	98.0	101.6
122.5°	29.0	29.0	68.9	87.1	90.7
125°	25.4	29.0	65.3	76.2	79.8
127.5°	29.0	29.0	58.1	68.9	72.6
130°	29.0	32.7	50.8	65.3	65.3
132.5°	32.7	36.3	47.2	61.7	61.7
135°	32.7	36.3	39.9	58.1	61.7
137.5°	36.3	36.3	36.3	54.4	58.1
140°	36.3	36.3	32.7	47.2	50.8
142.5°	32.7	36.3	32.7	43.5	47.2
145°	32.7	36.3	36.3	39.9	43.5
147.5°	36.3	36.3	36.3	36.3	39.9
150°	36.3	36.3	36.3	36.3	36.3
152.5°	36.3	36.3	36.3	36.3	36.3
155°	36.3	39.9	39.9	39.9	36.3
157.5°	36.3	39.9	39.9	39.9	39.9
160°	36.3	39.9	39.9	39.9	39.9
162.5°	39.9	39.9	39.9	39.9	39.9
165°	39.9	39.9	39.9	39.9	39.9
167.5°	39.9	43.5	39.9	39.9	39.9
170°	39.9	39.9	39.9	36.3	36.3
172.5°	39.9	39.9	39.9	36.3	36.3
175°	39.9	39.9	36.3	32.7	32.7
177.5°	43.5	39.9	36.3	32.7	29.0
180°	36.3	36.3	36.3	36.3	36.3



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	18.1	68.9	177.8	214.1	221.3
110°	21.8	58.1	148.8	181.4	188.7



(END OF REPORT)