

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: P830797

Luminaire Tested: **OHBL-72SE-NL-UNV-L940-CD**

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P830797
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-L940-CD
Description: 72000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 4000K LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

Summary

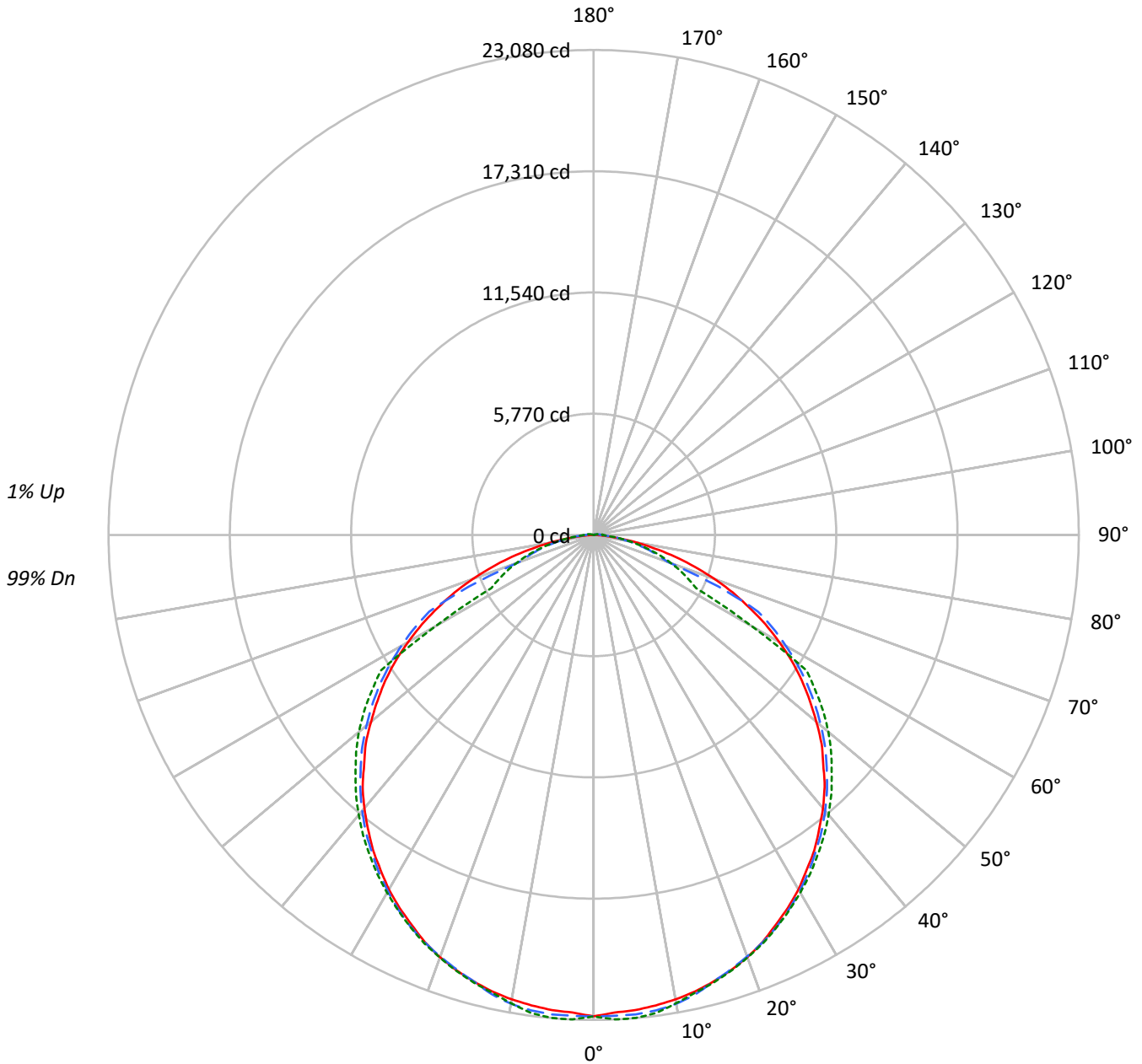
Lumens per Lamp: N/A
Luminaire Lumens: 64326.0 lumens
Efficiency: N/A
Efficacy: 155.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular (W 1.8' x L: 3.78' x H: 0')
CIE Type: Direct

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									
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	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°	36234	36234	36234
5°	36033	36359	36634
10°	36043	36386	36341
15°	36037	36031	36110
20°	35988	35934	36022
25°	35742	35924	35952
30°	35577	35760	35900
35°	35346	35540	35874
40°	35041	35373	35896
45°	34535	35057	35822
50°	34015	34708	35855
55°	33364	34229	35460
60°	32247	33391	27606
65°	30509	32283	18579
70°	28218	17138	18031
75°	24614	16286	17220
80°	18929	14940	15780
85°	9554	15099	15462



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2176.6	3.4
10°-20°	6232.4	9.7
20°-30°	9483.1	14.7
30°-40°	11530.1	17.9
40°-50°	12123.3	18.8
50°-60°	11070.0	17.2
60°-70°	7096.4	11.0
70°-80°	3352.3	5.2
80°-90°	929.5	1.4
90°-100°	246.2	0.4
100°-110°	67.4	0.1
110°-120°	18.7	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°	17892.1	27.8
0°-40°	29422.1	45.7
0°-60°	52615.5	81.8
0°-90°	63993.7	99.5
90°-120°	332.3	0.5
90°-150°	332.3	0.5
90°-180°	332.0	0.5
0°-180°	64326.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	22911	22911	22911	22911	22911	
5°	22698	22787	22903	23028	23076	###
15°	22011	22175	22007	22039	22055	6214
25°	20483	20515	20587	20620	20604	9451
35°	18308	18200	18408	18634	18581	11441
45°	15441	15413	15675	16045	16016	11935
55°	12101	12008	12414	12828	12861	10792
65°	8153	8153	8627	4949	4965	8083
75°	4028	4105	2665	2806	2818	4246
85°	526	667	832	901	852	778
90°	0	225	370	438	430	23
95°	12	117	266	358	358	7
105°	20	44	64	64	60	20
115°	20	28	40	28	4	14
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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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	22911.3	22911.3	22911.3	22911.3	22911.3
2.5°	22750.4	22827.0	22911.3	23019.8	23079.8
5°	22698.0	22786.6	22903.2	23027.9	23076.0
7.5°	22585.7	22709.9	22822.7	22911.3	22939.4
10°	22444.8	22593.7	22658.0	22649.9	22629.9
12.5°	22255.8	22412.9	22392.8	22300.1	22316.2
15°	22010.6	22175.4	22006.8	22038.7	22054.9
17.5°	21721.2	21882.1	21685.0	21749.3	21753.6
20°	21383.7	21504.1	21351.3	21403.7	21403.7
22.5°	20977.6	21061.9	20997.6	21033.8	21041.9
25°	20483.0	20515.0	20587.3	20619.7	20603.5
27.5°	20008.9	19968.5	20109.3	20185.5	20145.1
30°	19482.0	19417.7	19582.4	19707.1	19659.0
32.5°	18878.8	18838.8	19027.8	19176.4	19148.3
35°	18308.1	18199.5	18408.5	18633.7	18581.3
37.5°	17632.6	17568.3	17805.4	18042.9	18014.8
40°	16973.3	16864.8	17134.2	17415.5	17387.4
42.5°	16265.9	16136.9	16430.6	16768.6	16736.2
45°	15441.4	15413.4	15674.7	16044.6	16016.5
47.5°	14710.2	14569.3	14934.9	15292.9	15325.3
50°	13825.3	13773.4	14107.1	14541.2	14573.2
52.5°	12961.3	12925.1	13274.6	13713.0	13769.1
55°	12100.7	12008.3	12414.4	12828.5	12860.9
57.5°	11180.5	11083.8	11498.0	11948.3	12016.4
60°	10195.1	10102.8	10556.9	10975.3	8728.0
62.5°	9210.2	9145.9	9620.5	6814.3	5491.9
65°	8153.0	8153.0	8627.1	4948.8	4965.0
67.5°	7164.2	7099.9	6432.6	4446.1	4446.1
70°	6102.7	6127.0	3706.4	3895.8	3899.6
72.5°	5037.3	5125.9	3200.3	3352.7	3360.8
75°	4028.2	4104.8	2665.3	2806.2	2818.1
77.5°	2959.0	2275.4	2142.6	2251.6	2255.4
80°	2078.4	1435.2	1640.4	1744.7	1732.7
82.5°	1213.9	1004.9	1202.0	1278.6	1274.3
85°	526.5	667.4	832.1	900.6	852.1
87.5°	168.5	414.1	518.4	558.9	554.6
90°	0.0	225.2	369.9	438.0	430.3
92.5°	0.0	176.6	321.8	402.2	406.1
95°	11.9	116.6	265.6	358.0	358.0
97.5°	8.1	84.3	189.0	281.3	289.4
100°	8.1	68.1	124.7	200.9	205.2
102.5°	20.0	56.2	76.2	128.5	132.8
105°	20.0	44.3	64.3	64.3	60.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	24.3	32.3	44.3	32.3	3.8
115°	20.0	28.1	40.0	28.1	3.8
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°	20.0	40.0	56.2	36.2	11.9
110°	24.3	36.2	48.1	32.3	3.8



(END OF REPORT)