

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: P830926

Luminaire Tested: **OHBL-9HE-N-UNV-L850-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830926
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-9HE-N-UNV-L850-CD
Description: 9000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

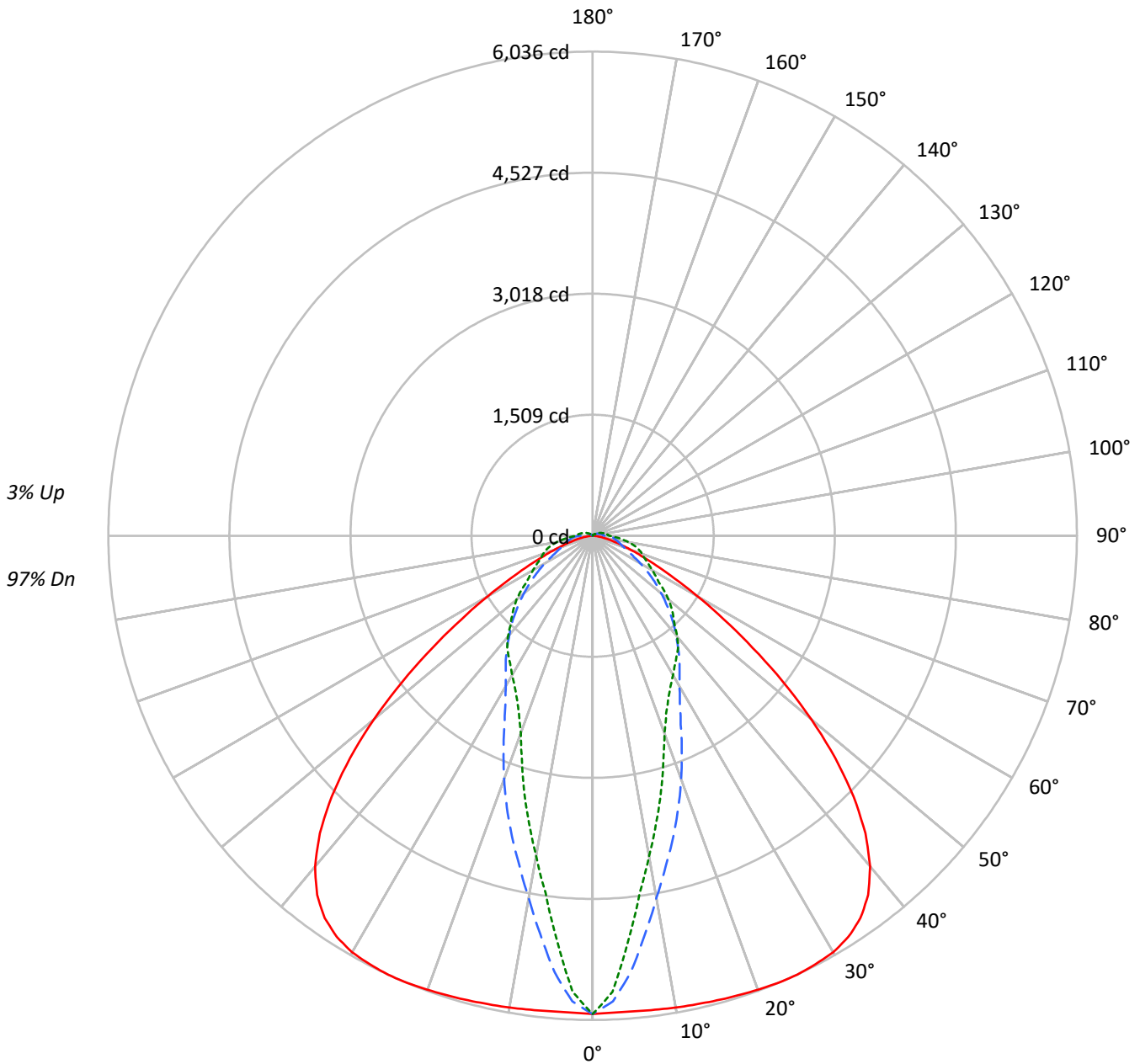
Lumens per Lamp: N/A
Luminaire Lumens: 8800.0 lumens
Efficiency: N/A
Efficacy: 169.2 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 52
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				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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	99	97
1	109	104	100	97	106	102	98	95	97	94	91	92	90	88	88	86	85	85	85	85	82
2	100	93	86	81	97	90	85	80	86	82	78	83	79	75	79	76	73	73	73	73	71
3	92	83	75	69	90	81	74	69	78	72	67	74	70	65	72	67	64	64	64	64	62
4	85	74	66	60	83	73	66	60	70	64	59	67	62	57	65	60	56	56	56	56	54
5	79	67	59	53	77	66	59	53	64	57	52	62	56	51	59	54	50	50	50	50	48
6	74	62	53	47	72	60	53	47	58	52	46	56	50	46	55	49	45	45	45	45	43
7	69	56	48	43	67	55	48	42	54	47	42	52	46	41	50	45	41	41	41	41	39
8	65	52	44	39	63	51	44	39	50	43	38	48	42	38	47	41	37	37	37	37	35
9	61	48	41	35	59	47	40	35	46	40	35	45	39	35	44	38	34	34	34	34	32
10	57	45	37	33	56	44	37	32	43	37	32	42	36	32	41	35	32	32	32	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10184	10184	10184
5°	10163	9274	8623
10°	10278	7812	6914
15°	10479	6681	5675
20°	10773	5649	4590
25°	11146	4676	4022
30°	11531	4028	3736
35°	11771	3671	3560
40°	11569	3316	3377
45°	10643	2997	3126
50°	8979	2648	2934
55°	6823	2319	2611
60°	4781	1989	2500
65°	3216	1713	2447
70°	2196	1607	2567
75°	1524	1658	2743
80°	1050	1836	2824
85°	614	2297	2963



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	501.9	5.7
10°-20°	1180.7	13.4
20°-30°	1480.0	16.8
30°-40°	1570.5	17.8
40°-50°	1420.0	16.1
50°-60°	1029.6	11.7
60°-70°	646.1	7.3
70°-80°	427.6	4.9
80°-90°	246.3	2.8
90°-100°	119.3	1.4
100°-110°	82.4	0.9
110°-120°	50.8	0.6
120°-130°	24.6	0.3
130°-140°	11.3	0.1
140°-150°	6.2	0.1
150°-160°	2.7	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3162.7	35.9
0°-40°	4733.1	53.8
0°-60°	7182.7	81.6
0°-90°	8502.6	96.6
90°-120°	252.5	2.9
90°-150°	294.6	3.3
90°-180°	297.0	3.4
0°-180°	8800.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5962	5962	5962	5962	5962	
5°	5951	5798	5457	5204	5073	569
15°	5996	4887	3882	3452	3295	1700
25°	6036	3779	2599	2307	2234	2788
35°	5820	2512	1886	1827	1827	3618
45°	4600	1591	1367	1400	1424	3505
55°	2436	986	892	968	1002	2201
65°	871	572	516	662	735	906
75°	269	308	347	538	571	300
85°	47	128	254	353	324	56
90°	0	53	147	207	209	3
95°	2	38	129	176	184	2
105°	4	25	94	125	128	5
115°	6	18	64	79	81	6
125°	7	9	32	41	40	6
135°	6	7	14	22	22	4
145°	7	7	8	13	12	4
155°	7	8	9	10	8	2
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5962.5	5962.5	5962.5	5962.5	5962.5
2.5°	5950.0	5915.9	5809.8	5745.1	5690.6
5°	5950.6	5797.9	5457.4	5204.3	5073.2
7.5°	5959.1	5619.7	5006.3	4636.8	4492.7
10°	5972.1	5399.0	4585.2	4191.4	4056.9
12.5°	5981.8	5150.4	4214.6	3810.0	3662.5
15°	5996.0	4887.1	3881.5	3452.0	3295.3
17.5°	6009.0	4639.1	3552.4	3103.5	2929.3
20°	6022.1	4371.8	3223.3	2760.8	2617.2
22.5°	6034.5	4089.8	2902.1	2494.6	2396.5
25°	6035.7	3778.8	2599.0	2306.8	2233.6
27.5°	6020.9	3456.5	2353.3	2149.6	2104.2
30°	5995.4	3143.8	2162.7	2036.1	2003.8
32.5°	5931.8	2824.9	2015.1	1926.6	1907.9
35°	5819.5	2512.2	1886.3	1827.3	1826.7
37.5°	5642.4	2234.7	1746.7	1736.5	1749.0
40°	5380.8	1991.8	1614.5	1641.7	1641.7
42.5°	5031.8	1780.7	1494.7	1522.5	1515.2
45°	4600.5	1591.2	1367.0	1400.0	1423.8
47.5°	4100.6	1424.4	1236.5	1300.1	1333.0
50°	3556.9	1265.5	1117.4	1198.5	1236.0
52.5°	2987.2	1118.5	1001.0	1094.1	1124.2
55°	2435.6	986.3	892.1	967.5	1002.2
57.5°	1936.2	860.3	785.4	856.9	928.4
60°	1506.6	751.9	684.9	787.1	858.6
62.5°	1150.8	655.4	590.7	721.8	793.3
65°	871.1	572.0	516.4	661.7	735.4
67.5°	656.6	499.9	458.5	618.0	690.1
70°	493.1	430.1	412.0	590.7	655.4
72.5°	364.3	366.0	375.1	566.9	616.3
75°	269.0	308.1	346.7	538.5	570.9
77.5°	192.4	255.4	321.2	504.5	515.8
80°	133.4	208.3	294.5	459.7	450.0
82.5°	83.4	166.8	270.7	410.3	383.6
85°	47.1	127.7	253.7	353.0	324.0
87.5°	21.0	95.3	221.9	275.2	257.1
90°	0.0	53.3	147.0	207.1	208.8
92.5°	1.1	44.3	135.6	189.5	195.2
95°	2.3	37.5	129.4	175.9	183.9
97.5°	2.8	32.9	121.4	163.4	170.2
100°	3.4	29.5	111.8	150.4	156.1
102.5°	4.0	27.2	102.7	136.8	141.3
105°	4.5	25.0	94.2	124.8	128.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	5.7	19.3	70.9	89.7	92.5
115°	6.2	17.6	63.6	79.4	81.1
117.5°	6.8	15.3	55.6	69.8	70.4
120°	6.8	13.6	47.7	59.6	59.6
122.5°	6.8	11.3	39.7	49.4	48.8
125°	6.8	9.1	32.3	40.9	40.3
127.5°	6.2	7.4	26.1	34.0	33.5
130°	6.2	7.4	21.0	28.9	28.9
132.5°	5.7	6.8	17.0	25.0	25.0
135°	5.7	6.8	14.2	22.1	22.1
137.5°	5.7	7.4	11.9	19.3	19.3
140°	5.7	6.8	10.2	17.0	17.0
142.5°	6.2	6.8	9.1	14.8	14.8
145°	6.8	7.4	8.5	13.1	12.5
147.5°	6.8	7.9	8.5	11.3	10.8
150°	6.8	8.5	8.5	10.2	9.6
152.5°	6.8	8.5	8.5	9.6	9.1
155°	6.8	8.5	9.1	9.6	8.5
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°	4.5	23.3	86.3	111.8	115.8
110°	5.1	21.0	78.9	99.9	103.8



(END OF REPORT)