

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: P830928

Luminaire Tested: **OHBL-9HE-N-UNV-L935-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830928
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-L935-CD
Description: 9000 LUMEN OHBL HE LED LUMINAIRE WITH 90CRI, 3500K LEDS AND NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

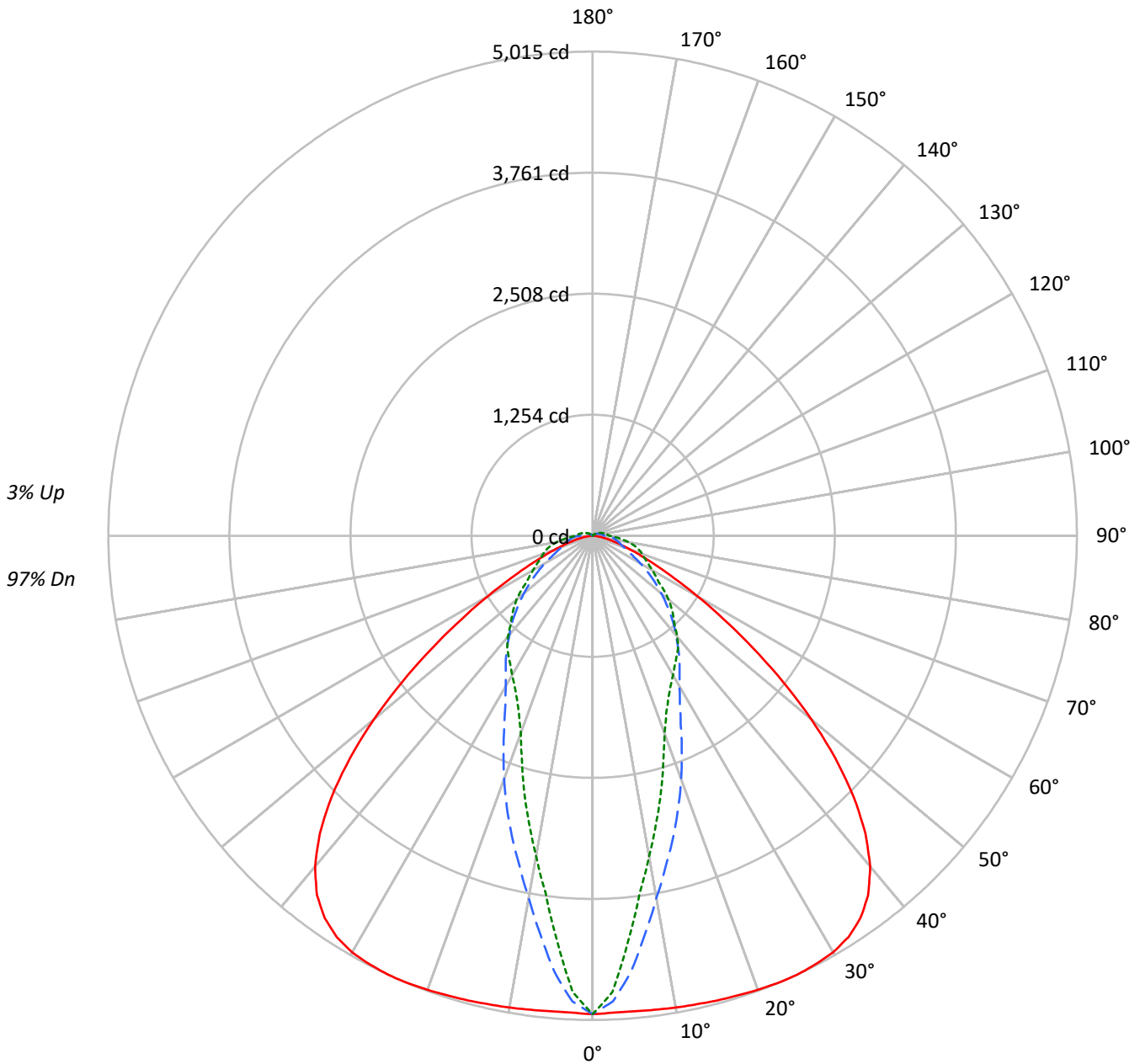
Lumens per Lamp: N/A
Luminaire Lumens: 7312.0 lumens
Efficiency: N/A
Efficacy: 140.6 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

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°	8462	8462	8462
5°	8445	7706	7165
10°	8540	6491	5745
15°	8707	5551	4715
20°	8951	4694	3814
25°	9261	3885	3342
30°	9581	3347	3104
35°	9780	3050	2958
40°	9613	2755	2806
45°	8843	2490	2598
50°	7461	2200	2438
55°	5669	1927	2170
60°	3973	1652	2077
65°	2673	1423	2034
70°	1825	1335	2133
75°	1267	1377	2280
80°	872	1525	2347
85°	510	1908	2461



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	417.0	5.7
10°-20°	981.1	13.4
20°-30°	1229.8	16.8
30°-40°	1304.9	17.8
40°-50°	1179.9	16.1
50°-60°	855.5	11.7
60°-70°	536.9	7.3
70°-80°	355.3	4.9
80°-90°	204.7	2.8
90°-100°	99.2	1.4
100°-110°	68.4	0.9
110°-120°	42.2	0.6
120°-130°	20.4	0.3
130°-140°	9.4	0.1
140°-150°	5.1	0.1
150°-160°	2.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2627.9	35.9
0°-40°	3932.8	53.8
0°-60°	5968.1	81.6
0°-90°	7064.9	96.6
90°-120°	209.8	2.9
90°-150°	244.8	3.3
90°-180°	247.0	3.4
0°-180°	7312.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4954	4954	4954	4954	4954	
5°	4944	4818	4535	4324	4215	473
15°	4982	4061	3225	2868	2738	1413
25°	5015	3140	2160	1917	1856	2317
35°	4835	2087	1567	1518	1518	3006
45°	3823	1322	1136	1163	1183	2912
55°	2024	820	741	804	833	1829
65°	724	475	429	550	611	753
75°	224	256	288	448	474	249
85°	39	106	211	293	269	47
90°	0	44	122	172	174	3
95°	2	31	108	146	153	2
105°	4	21	78	104	107	4
115°	5	15	53	66	67	5
125°	6	8	27	34	34	5
135°	5	6	12	18	18	4
145°	6	6	7	11	10	3
155°	6	7	8	8	7	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°	4954.3	4954.3	4954.3	4954.3	4954.3
2.5°	4943.9	4915.6	4827.4	4773.7	4728.4
5°	4944.4	4817.5	4534.6	4324.3	4215.4
7.5°	4951.4	4669.5	4159.8	3852.8	3733.0
10°	4962.3	4486.0	3809.9	3482.7	3370.9
12.5°	4970.3	4279.5	3502.0	3165.8	3043.2
15°	4982.1	4060.7	3225.2	2868.3	2738.1
17.5°	4992.9	3854.7	2951.7	2578.7	2434.0
20°	5003.8	3632.6	2678.2	2293.9	2174.7
22.5°	5014.2	3398.3	2411.4	2072.8	1991.2
25°	5015.1	3139.9	2159.6	1916.7	1855.9
27.5°	5002.8	2872.0	1955.4	1786.1	1748.4
30°	4981.6	2612.2	1797.0	1691.8	1664.9
32.5°	4928.8	2347.2	1674.4	1600.8	1585.3
35°	4835.4	2087.4	1567.3	1518.3	1517.8
37.5°	4688.3	1856.8	1451.3	1442.9	1453.2
40°	4471.0	1655.0	1341.5	1364.1	1364.1
42.5°	4181.0	1479.6	1242.0	1265.1	1259.0
45°	3822.6	1322.1	1135.9	1163.2	1183.0
47.5°	3407.2	1183.5	1027.4	1080.3	1107.6
50°	2955.5	1051.5	928.4	995.9	1027.0
52.5°	2482.1	929.4	831.8	909.1	934.1
55°	2023.8	819.5	741.2	803.9	832.7
57.5°	1608.8	714.8	652.6	712.0	771.4
60°	1251.9	624.8	569.1	654.0	713.4
62.5°	956.2	544.6	490.9	599.8	659.2
65°	723.8	475.3	429.1	549.8	611.1
67.5°	545.5	415.4	381.0	513.5	573.4
70°	409.8	357.4	342.3	490.9	544.6
72.5°	302.7	304.1	311.7	471.0	512.1
75°	223.5	256.0	288.1	447.5	474.4
77.5°	159.8	212.2	266.9	419.2	428.6
80°	110.8	173.0	244.7	381.9	373.9
82.5°	69.3	138.6	224.9	340.9	318.7
85°	39.1	106.1	210.8	293.3	269.2
87.5°	17.4	79.2	184.4	228.7	213.6
90°	0.0	44.3	122.1	172.1	173.5
92.5°	0.9	36.8	112.7	157.5	162.2
95°	1.9	31.1	107.5	146.2	152.8
97.5°	2.4	27.3	100.9	135.8	141.5
100°	2.8	24.5	92.9	125.0	129.7
102.5°	3.3	22.6	85.3	113.6	117.4
105°	3.8	20.7	78.3	103.7	106.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	4.7	16.0	58.9	74.5	76.9
115°	5.2	14.6	52.8	66.0	67.4
117.5°	5.7	12.7	46.2	58.0	58.5
120°	5.7	11.3	39.6	49.5	49.5
122.5°	5.7	9.4	33.0	41.0	40.6
125°	5.7	7.5	26.9	33.9	33.5
127.5°	5.2	6.1	21.7	28.3	27.8
130°	5.2	6.1	17.4	24.0	24.0
132.5°	4.7	5.7	14.1	20.7	20.7
135°	4.7	5.7	11.8	18.4	18.4
137.5°	4.7	6.1	9.9	16.0	16.0
140°	4.7	5.7	8.5	14.1	14.1
142.5°	5.2	5.7	7.5	12.3	12.3
145°	5.7	6.1	7.1	10.8	10.4
147.5°	5.7	6.6	7.1	9.4	9.0
150°	5.7	7.1	7.1	8.5	8.0
152.5°	5.7	7.1	7.1	8.0	7.5
155°	5.7	7.1	7.5	8.0	7.1
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°	3.8	19.3	71.7	92.9	96.2
110°	4.2	17.4	65.5	83.0	86.3



(END OF REPORT)