

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: P830209

Luminaire Tested: **OHBL-30HE-N-UNV-L940-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830209
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-30HE-N-UNV-L940-CD
Description: 30000 LUMEN OHBL HE LED LUMINAIRE WITH 90CRI, 4000K LEDS AND NARROW LENS
Light Source: -
Ballast/Driver: -

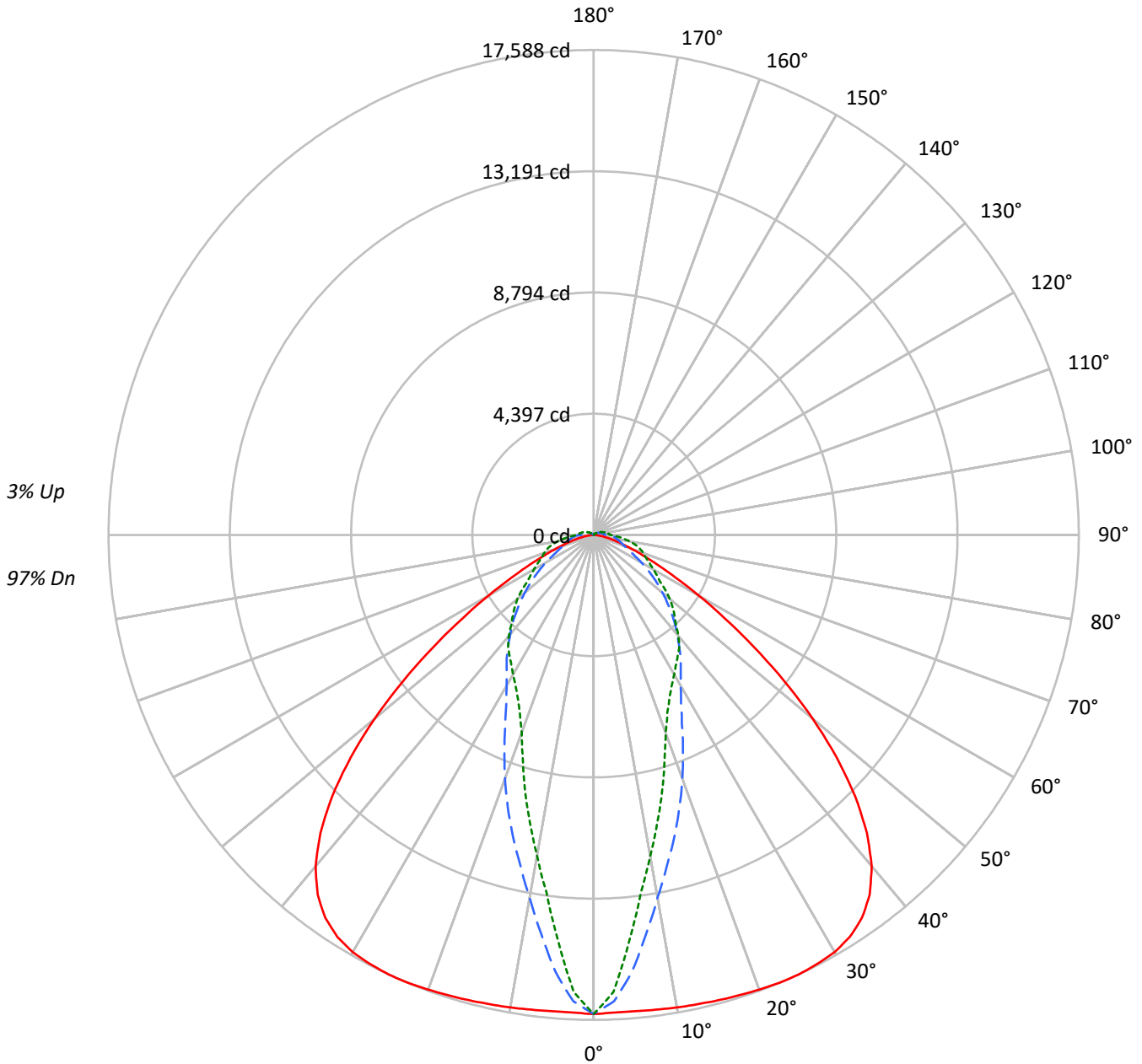
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25643.0 lumens
Efficiency: N/A
Efficacy: 156.6 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 163.8
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

TEST NUMBER: P830209
CATALOG NUMBER: OHBL-30HE-N-UNV-L940-CD

Luminous Intensity Polar Plot





TEST NUMBER: P830209

CATALOG NUMBER: OHBL-30HE-N-UNV-L940-CD

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	27477	27477	27477
5°	27421	25034	23280
10°	27731	21097	18679
15°	28272	18051	15341
20°	29067	15270	12417
25°	30072	12646	10887
30°	31111	10900	10121
35°	31759	9939	9651
40°	31215	8984	9164
45°	28717	8124	8493
50°	24228	7183	7980
55°	18410	6298	7111
60°	12901	5408	6819
65°	8678	4664	6691
70°	5927	4386	7040
75°	4113	4537	7554
80°	2831	5048	7830
85°	1655	6373	8323



TEST NUMBER: P830209

CATALOG NUMBER: OHBL-30HE-N-UNV-L940-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1462.6	5.7
10°-20°	3440.6	13.4
20°-30°	4312.8	16.8
30°-40°	4576.3	17.8
40°-50°	4137.7	16.1
50°-60°	3000.1	11.7
60°-70°	1882.7	7.3
70°-80°	1245.9	4.9
80°-90°	717.8	2.8
90°-100°	347.7	1.4
100°-110°	240.0	0.9
110°-120°	148.1	0.6
120°-130°	71.7	0.3
130°-140°	33.0	0.1
140°-150°	18.0	0.1
150°-160°	7.8	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
<hr/>		
0°-30°	9215.9	35.9
0°-40°	13792.3	53.8
0°-60°	20930.1	81.6
0°-90°	24776.5	96.6
90°-120°	735.9	2.9
90°-150°	858.6	3.3
90°-180°	866.0	3.4
0°-180°	25643.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	17374	17374	17374	17374	17374	
5°	17340	16895	15903	15165	14783	###
15°	17472	14241	11311	10059	9602	4955
25°	17588	11011	7574	6722	6509	8125
35°	16958	7320	5497	5325	5323	10542
45°	13406	4637	3984	4080	4149	10213
55°	7097	2874	2600	2819	2920	6413
65°	2538	1667	1505	1928	2143	2641
75°	784	898	1010	1569	1664	874
85°	137	372	739	1028	944	165
90°	0	155	428	604	608	9
95°	7	109	377	513	536	6
105°	13	73	274	364	374	13
115°	18	51	185	232	236	18
125°	20	26	94	119	117	17
135°	16	20	41	64	64	13
145°	20	22	25	38	36	12
155°	20	25	26	28	25	6
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P830209

CATALOG NUMBER: OHBL-30HE-N-UNV-L940-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	17374.5	17374.5	17374.5	17374.5	17374.5
2.5°	17338.1	17238.9	16929.7	16741.2	16582.4
5°	17339.8	16895.0	15902.8	15165.3	14783.3
7.5°	17364.6	16375.7	14588.2	13511.7	13091.6
10°	17402.6	15732.5	13361.2	12213.6	11821.7
12.5°	17430.7	15008.2	12281.4	11102.4	10672.4
15°	17472.1	14240.9	11310.7	10058.9	9602.5
17.5°	17510.1	13518.3	10351.6	9043.6	8535.9
20°	17548.1	12739.4	9392.5	8044.8	7626.5
22.5°	17584.5	11917.6	8456.6	7269.3	6983.2
25°	17587.8	11011.4	7573.5	6721.9	6508.6
27.5°	17544.8	10072.1	6857.5	6263.9	6131.6
30°	17470.4	9161.0	6301.9	5933.2	5838.9
32.5°	17285.2	8231.7	5872.0	5614.0	5559.4
35°	16957.8	7320.5	5496.6	5324.6	5323.0
37.5°	16441.9	6511.9	5089.8	5060.1	5096.4
40°	15679.5	5804.2	4704.5	4783.9	4783.9
42.5°	14662.6	5189.0	4355.6	4436.6	4415.1
45°	13405.8	4636.7	3983.6	4079.5	4148.9
47.5°	11949.0	4150.6	3603.2	3788.4	3884.3
50°	10364.8	3687.6	3256.0	3492.4	3601.6
52.5°	8704.6	3259.3	2917.0	3188.2	3275.8
55°	7097.3	2874.0	2599.5	2819.4	2920.3
57.5°	5642.1	2506.9	2288.6	2497.0	2705.3
60°	4390.3	2191.0	1995.9	2293.6	2501.9
62.5°	3353.5	1909.9	1721.4	2103.4	2311.7
65°	2538.3	1666.8	1504.8	1928.1	2143.1
67.5°	1913.2	1456.8	1336.1	1800.8	2010.8
70°	1437.0	1253.4	1200.5	1721.4	1909.9
72.5°	1061.6	1066.6	1093.0	1652.0	1795.8
75°	783.8	897.9	1010.4	1569.3	1663.5
77.5°	560.6	744.1	935.9	1470.1	1503.1
80°	388.6	606.9	858.2	1339.4	1311.3
82.5°	243.1	486.2	788.8	1195.6	1117.8
85°	137.2	372.1	739.2	1028.5	944.2
87.5°	61.2	277.8	646.6	802.0	749.1
90°	0.0	155.4	428.3	603.6	608.5
92.5°	3.3	129.0	395.2	552.3	568.8
95°	6.6	109.1	377.0	512.6	535.8
97.5°	8.3	95.9	353.9	476.2	496.1
100°	9.9	86.0	325.8	438.2	454.7
102.5°	11.6	79.4	299.3	398.5	411.7
105°	13.2	72.8	274.5	363.8	373.7



TEST NUMBER: P830209

CATALOG NUMBER: OHBL-30HE-N-UNV-L940-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	16.5	56.2	206.7	261.3	269.5
115°	18.2	51.3	185.2	231.5	236.5
117.5°	19.8	44.6	162.1	203.4	205.0
120°	19.8	39.7	138.9	173.6	173.6
122.5°	19.8	33.1	115.8	143.9	142.2
125°	19.8	26.5	94.3	119.1	117.4
127.5°	18.2	21.5	76.1	99.2	97.6
130°	18.2	21.5	61.2	84.3	84.3
132.5°	16.5	19.8	49.6	72.8	72.8
135°	16.5	19.8	41.3	64.5	64.5
137.5°	16.5	21.5	34.7	56.2	56.2
140°	16.5	19.8	29.8	49.6	49.6
142.5°	18.2	19.8	26.5	43.0	43.0
145°	19.8	21.5	24.8	38.0	36.4
147.5°	19.8	23.2	24.8	33.1	31.4
150°	19.8	24.8	24.8	29.8	28.1
152.5°	19.8	24.8	24.8	28.1	26.5
155°	19.8	24.8	26.5	28.1	24.8
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°	13.2	67.8	251.3	325.8	337.3
110°	14.9	61.2	229.9	291.0	302.6



(END OF REPORT)