

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: P829353

Luminaire Tested: **OHB-30HE-NL-UNV-L840-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829353
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: OHB-30HE-NL-UNV-L840-CD
Description: 30000 LUMEN OHB HE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

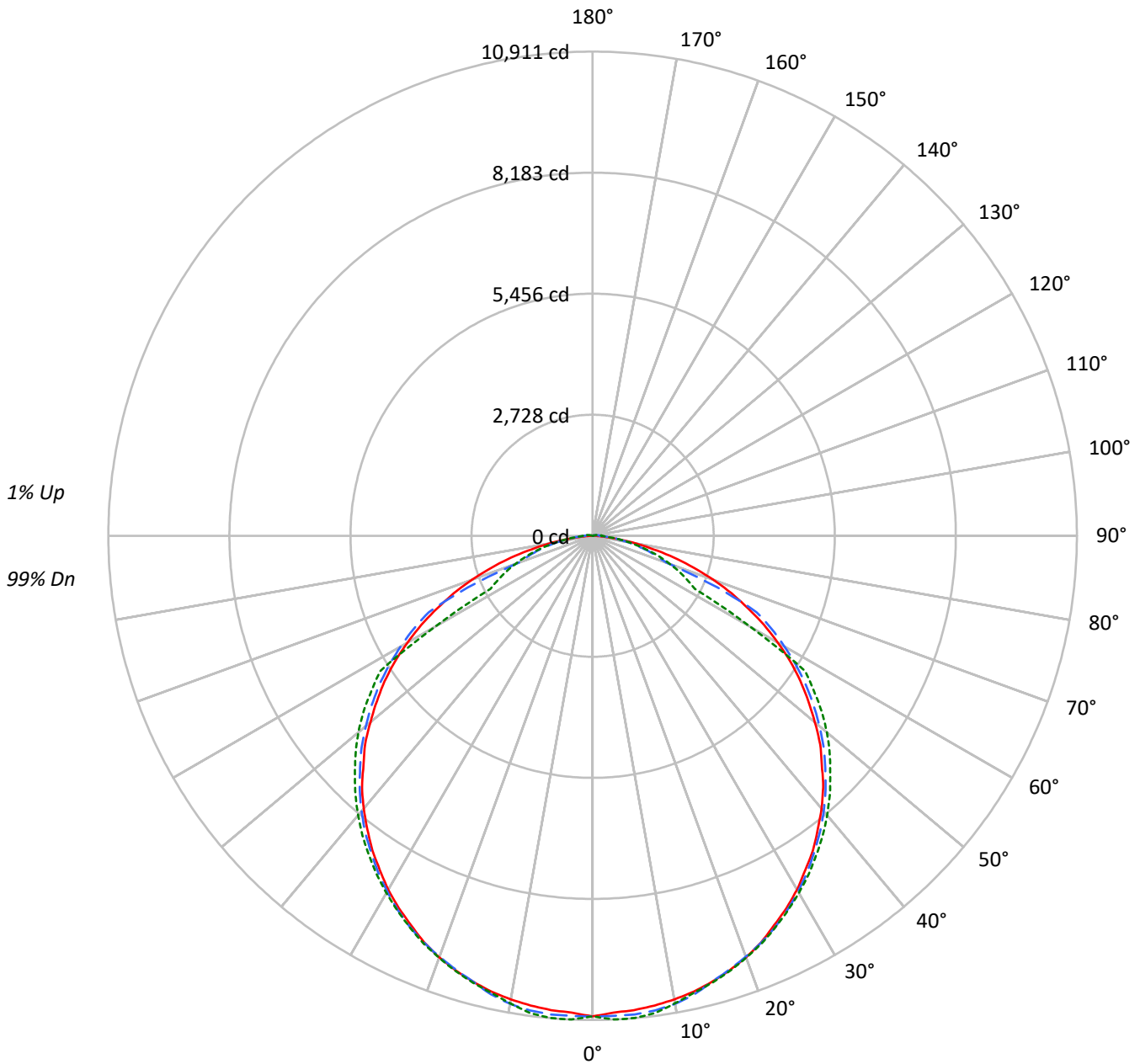
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30409.0 lumens
Efficiency: N/A
Efficacy: 179.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular (W 1.8' x L: 1.93' x H: 0')
CIE Type: Direct

Input Watts (W): 169
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°	33501	33501	33501
5°	33316	33617	33871
10°	33325	33642	33600
15°	33319	33313	33386
20°	33274	33224	33305
25°	33046	33215	33241
30°	32894	33063	33192
35°	32680	32859	33168
40°	32398	32705	33189
45°	31931	32413	33120
50°	31450	32091	33151
55°	30848	31648	32786
60°	29815	30873	25524
65°	28208	29848	17178
70°	26090	15845	16672
75°	22757	15058	15921
80°	17501	13813	14590
85°	8833	13961	14295



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1029.0	3.4
10°-20°	2946.2	9.7
20°-30°	4483.0	14.7
30°-40°	5450.6	17.9
40°-50°	5731.1	18.8
50°-60°	5233.2	17.2
60°-70°	3354.7	11.0
70°-80°	1584.7	5.2
80°-90°	439.4	1.4
90°-100°	116.4	0.4
100°-110°	31.9	0.1
110°-120°	8.8	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°	8458.2	27.8
0°-40°	13908.8	45.7
0°-60°	24873.1	81.8
0°-90°	30252.0	99.5
90°-120°	157.1	0.5
90°-150°	157.1	0.5
90°-180°	157.0	0.5
0°-180°	30409.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10831	10831	10831	10831	10831	
5°	10730	10772	10827	10886	10909	###
15°	10405	10483	10403	10418	10426	2938
25°	9683	9698	9732	9748	9740	4468
35°	8655	8604	8702	8809	8784	5409
45°	7300	7286	7410	7585	7572	5642
55°	5720	5677	5869	6064	6080	5102
65°	3854	3854	4078	2340	2347	3821
75°	1904	1940	1260	1327	1332	2007
85°	249	316	393	426	403	368
90°	0	106	175	207	203	11
95°	6	55	126	169	169	3
105°	10	21	30	30	29	10
115°	10	13	19	13	2	7
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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CATALOG NUMBER: OHB-30HE-NL-UNV-L840-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10830.9	10830.9	10830.9	10830.9	10830.9
2.5°	10754.8	10791.1	10830.9	10882.2	10910.6
5°	10730.1	10771.9	10827.1	10886.0	10908.8
7.5°	10677.0	10735.7	10789.1	10830.9	10844.2
10°	10610.4	10680.8	10711.2	10707.4	10697.9
12.5°	10521.0	10595.3	10585.8	10542.0	10549.6
15°	10405.1	10483.0	10403.3	10418.4	10426.1
17.5°	10268.3	10344.4	10251.2	10281.6	10283.6
20°	10108.8	10165.7	10093.5	10118.2	10118.2
22.5°	9916.8	9956.6	9926.3	9943.4	9947.2
25°	9683.0	9698.1	9732.3	9747.6	9739.9
27.5°	9458.9	9439.7	9506.3	9542.4	9523.2
30°	9209.8	9179.4	9257.2	9316.2	9293.5
32.5°	8924.6	8905.7	8995.1	9065.3	9052.0
35°	8654.8	8603.5	8702.3	8808.7	8784.0
37.5°	8335.5	8305.1	8417.2	8529.5	8516.2
40°	8023.8	7972.5	8099.9	8232.9	8219.6
42.5°	7689.4	7628.5	7767.3	7927.0	7911.8
45°	7299.7	7286.4	7409.9	7584.8	7571.5
47.5°	6954.0	6887.4	7060.2	7229.5	7244.7
50°	6535.7	6511.1	6668.9	6874.1	6889.2
52.5°	6127.2	6110.1	6275.3	6482.6	6509.1
55°	5720.4	5676.7	5868.7	6064.5	6079.7
57.5°	5285.4	5239.7	5435.5	5648.4	5680.5
60°	4819.6	4775.9	4990.6	5188.4	4126.0
62.5°	4354.0	4323.6	4547.9	3221.4	2596.2
65°	3854.2	3854.2	4078.3	2339.5	2347.1
67.5°	3386.8	3356.4	3040.9	2101.8	2101.8
70°	2884.9	2896.4	1752.1	1841.7	1843.5
72.5°	2381.3	2423.2	1512.9	1584.9	1588.7
75°	1904.2	1940.5	1260.0	1326.6	1332.2
77.5°	1398.8	1075.7	1012.9	1064.4	1066.2
80°	982.5	678.5	775.5	824.8	819.1
82.5°	573.8	475.1	568.2	604.4	602.4
85°	248.9	315.5	393.4	425.8	402.8
87.5°	79.7	195.8	245.1	264.2	262.2
90°	0.0	106.4	174.9	207.0	203.4
92.5°	0.0	83.5	152.1	190.1	192.0
95°	5.6	55.1	125.6	169.2	169.2
97.5°	3.8	39.8	89.3	133.0	136.8
100°	3.8	32.2	59.0	95.0	97.0
102.5°	9.5	26.6	36.0	60.8	62.8
105°	9.5	20.9	30.4	30.4	28.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	11.5	15.3	20.9	15.3	1.8
115°	9.5	13.3	18.9	13.3	1.8
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°	9.5	18.9	26.6	17.1	5.6
110°	11.5	17.1	22.7	15.3	1.8



(END OF REPORT)