

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: P829329

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829329
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHB-30HE-MFL-UNV-L840-CD
Description: 30000 LUMEN OHB HE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND MEDIUM FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

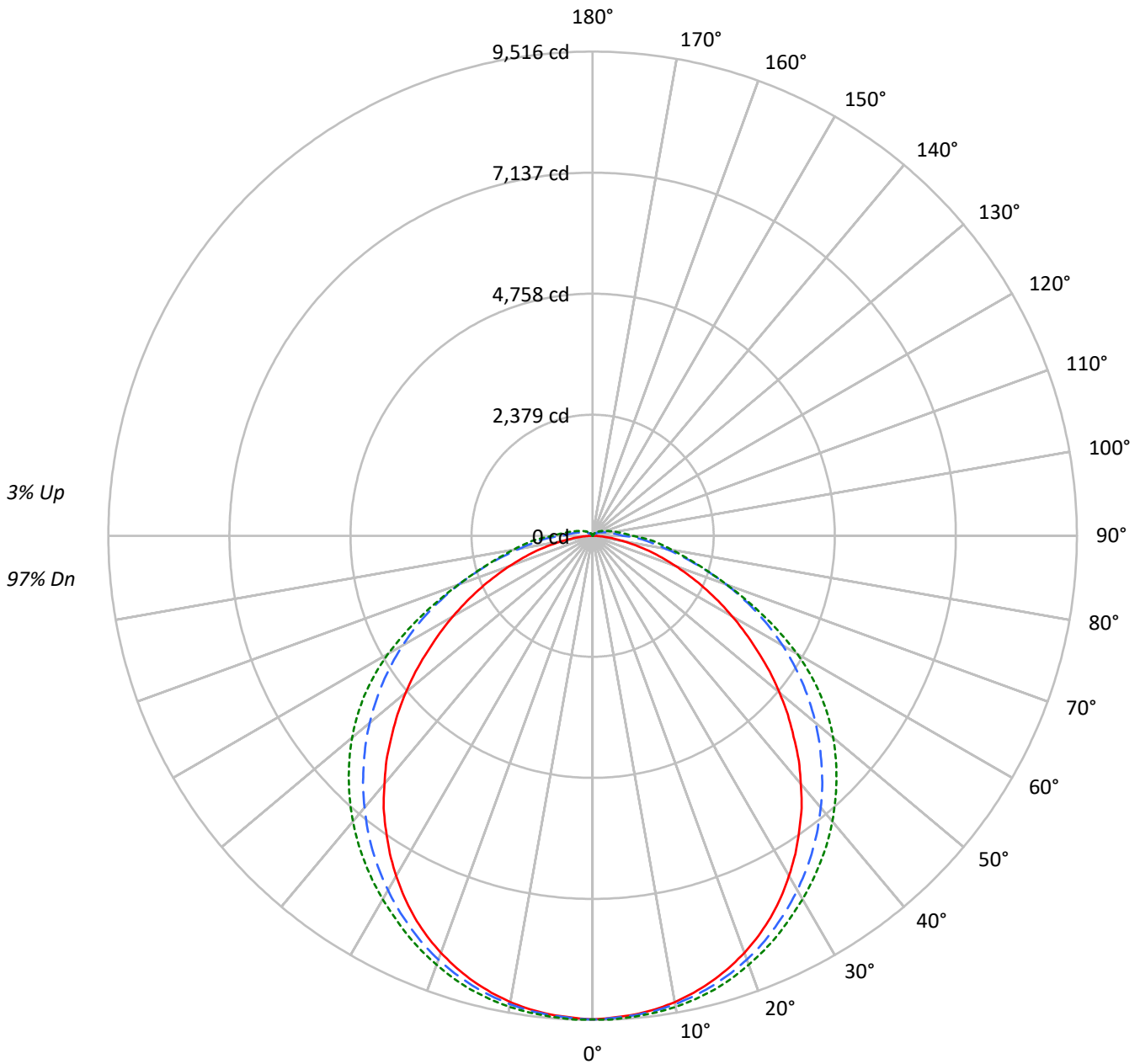
Lumens per Lamp: N/A
Luminaire Lumens: 28451.0 lumens
Efficiency: N/A
Efficacy: 168.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 1.93' x H: 0.17')
CIE Type: Direct

Input Watts (W): 169
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									
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	99	99	97																
1	107	102	98	94	104	100	96	92	95	91	88	90	88	85	86	84	82	86	84	82	80																
2	98	89	82	76	95	87	80	75	83	77	73	79	74	71	75	72	68	75	72	68	66																
3	89	78	70	63	86	76	69	62	73	66	61	70	64	59	67	62	58	67	62	58	56																
4	81	69	60	53	79	68	59	53	65	57	52	62	56	51	59	54	50	59	54	50	47																
5	75	62	53	46	72	60	52	46	58	50	45	56	49	44	53	48	43	53	48	43	41																
6	69	56	47	40	67	54	46	40	52	45	39	50	44	39	48	43	38	48	43	38	36																
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	44	38	34	44	38	34	32																
8	60	46	37	31	58	45	37	31	43	36	31	42	35	31	41	35	30	41	35	30	28																
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	37	32	27	37	32	27	25																
10	52	39	31	26	51	38	31	26	37	30	25	36	29	25	35	29	25	35	29	25	23																

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	29404	29404	29404
5°	29109	29051	29214
10°	28799	28720	29061
15°	28370	28341	28861
20°	27837	27893	28567
25°	27159	27353	28269
30°	26264	26772	27970
35°	25202	26156	27712
40°	23951	25453	27458
45°	22495	24691	27133
50°	20913	23914	26739
55°	19001	22976	26073
60°	17043	21877	24744
65°	14917	20495	22560
70°	12622	18754	20194
75°	10286	16736	18596
80°	7431	15107	18449
85°	4241	14992	20617



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	900.8	3.2
10°-20°	2584.2	9.1
20°-30°	3908.2	13.7
30°-40°	4691.8	16.5
40°-50°	4845.9	17.0
50°-60°	4359.8	15.3
60°-70°	3284.1	11.5
70°-80°	1983.1	7.0
80°-90°	969.9	3.4
90°-100°	408.2	1.4
100°-110°	233.0	0.8
110°-120°	136.8	0.5
120°-130°	77.4	0.3
130°-140°	40.7	0.1
140°-150°	19.8	0.1
150°-160°	7.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	7393.1	26.0
0°-40°	12084.9	42.5
0°-60°	21290.6	74.8
0°-90°	27527.7	96.8
90°-120°	778.1	2.7
90°-150°	916.0	3.2
90°-180°	923.0	3.2
0°-180°	28451.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9506	9506	9506	9506	9506	
5°	9446	9472	9460	9497	9485	897
15°	9064	9108	9150	9227	9236	2556
25°	8278	8369	8487	8620	8641	3808
35°	7077	7243	7540	7768	7815	4424
45°	5586	5868	6358	6705	6777	4313
55°	3958	4367	5030	5409	5474	3548
65°	2415	2908	3560	3736	3695	2399
75°	1138	1633	2061	2115	2094	1214
85°	237	626	1033	1175	1196	274
90°	0	244	591	744	775	15
95°	12	165	442	563	584	10
105°	16	95	256	335	349	16
115°	19	54	158	212	221	19
125°	19	26	95	137	144	17
135°	16	21	49	84	93	13
145°	23	21	23	42	49	14
155°	23	26	23	21	23	7
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CATALOG NUMBER: OHB-30HE-MFL-UNV-L840-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9506.4	9506.4	9506.4	9506.4	9506.4
2.5°	9478.5	9501.7	9487.8	9518.0	9515.7
5°	9445.9	9471.5	9459.9	9497.1	9485.4
7.5°	9390.1	9418.0	9415.6	9457.5	9452.9
10°	9308.6	9338.9	9348.2	9404.0	9404.0
12.5°	9196.9	9236.5	9259.8	9327.2	9329.6
15°	9064.3	9108.5	9150.4	9227.2	9236.5
17.5°	8903.8	8959.6	9017.8	9106.2	9117.8
20°	8722.3	8785.1	8864.2	8957.3	8971.3
22.5°	8512.9	8587.4	8689.8	8799.1	8815.4
25°	8278.0	8368.7	8487.3	8620.0	8640.9
27.5°	8010.4	8115.1	8275.6	8424.5	8443.1
30°	7719.6	7842.9	8043.0	8219.8	8250.0
32.5°	7412.5	7554.4	7801.0	7998.8	8040.6
35°	7077.4	7242.6	7540.4	7768.4	7815.0
37.5°	6747.1	6928.5	7265.9	7526.5	7582.3
40°	6360.9	6586.5	6972.7	7261.2	7328.7
42.5°	5997.9	6242.2	6679.6	6993.7	7058.8
45°	5586.1	5867.6	6358.5	6705.2	6777.3
47.5°	5199.9	5504.7	6049.1	6407.4	6481.8
50°	4792.7	5127.8	5718.7	6093.3	6170.1
52.5°	4385.6	4746.2	5376.7	5765.3	5837.4
55°	3957.5	4367.0	5030.1	5409.3	5474.4
57.5°	3559.7	3992.4	4674.1	5034.7	5074.3
60°	3166.5	3615.5	4311.1	4627.6	4641.5
62.5°	2782.6	3254.9	3938.9	4190.2	4171.5
65°	2415.0	2908.2	3559.7	3736.5	3694.6
67.5°	2061.3	2570.9	3171.1	3285.1	3229.3
70°	1726.3	2242.8	2794.2	2852.4	2801.2
72.5°	1430.8	1931.1	2412.7	2461.5	2424.3
75°	1137.7	1633.3	2061.3	2114.9	2093.9
77.5°	863.2	1344.8	1738.0	1807.7	1812.4
80°	621.2	1081.9	1456.4	1565.8	1579.7
82.5°	409.5	839.9	1221.5	1361.0	1382.0
85°	237.3	625.8	1033.0	1174.9	1195.9
87.5°	102.4	451.4	830.6	958.5	984.1
90°	0.0	244.3	590.9	744.5	774.7
92.5°	7.0	202.4	507.2	646.8	672.4
95°	11.6	165.2	442.0	563.0	584.0
97.5°	14.0	139.6	383.9	490.9	511.8
100°	14.0	121.0	332.7	430.4	449.0
102.5°	14.0	107.0	290.8	376.9	393.2
105°	16.3	95.4	255.9	335.0	349.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	18.6	62.8	176.8	237.3	246.6
115°	18.6	53.5	158.2	211.7	221.0
117.5°	20.9	46.5	139.6	190.8	197.8
120°	20.9	39.6	123.3	169.8	179.1
122.5°	20.9	32.6	109.3	153.6	160.5
125°	18.6	25.6	95.4	137.3	144.2
127.5°	16.3	20.9	81.4	123.3	130.3
130°	16.3	18.6	69.8	109.3	116.3
132.5°	16.3	20.9	58.2	95.4	104.7
135°	16.3	20.9	48.9	83.8	93.1
137.5°	16.3	20.9	39.6	72.1	81.4
140°	18.6	20.9	32.6	60.5	69.8
142.5°	20.9	20.9	25.6	51.2	58.2
145°	23.3	20.9	23.3	41.9	48.9
147.5°	23.3	23.3	23.3	32.6	39.6
150°	23.3	25.6	23.3	25.6	32.6
152.5°	23.3	25.6	23.3	20.9	25.6
155°	23.3	25.6	23.3	20.9	23.3
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°	16.3	83.8	225.7	297.8	309.4
110°	16.3	74.5	200.1	265.2	276.9



(END OF REPORT)