

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: P830205

Luminaire Tested: **OHBL-30HE-N-UNV-L840-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830205
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-L840-CD
Description: 30000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

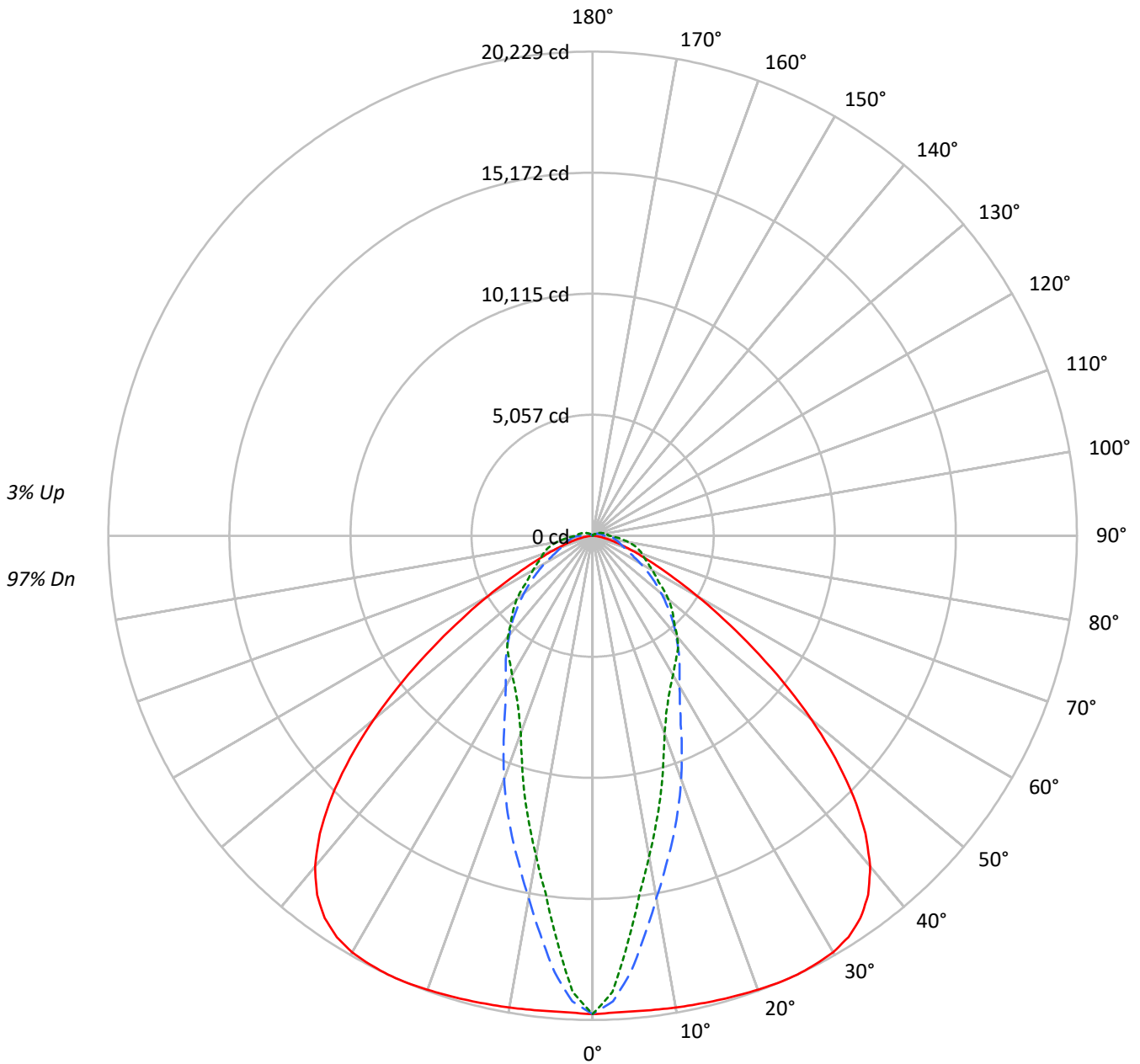
Lumens per Lamp: N/A
Luminaire Lumens: 29494.0 lumens
Efficiency: N/A
Efficacy: 180.1 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

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

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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°	31604	31604	31604
5°	31539	28794	26776
10°	31895	24265	21484
15°	32518	20762	17645
20°	33432	17563	14281
25°	34588	14545	12522
30°	35784	12537	11641
35°	36528	11432	11100
40°	35903	10333	10540
45°	33029	9344	9768
50°	27867	8262	9179
55°	21175	7244	8179
60°	14839	6220	7844
65°	9981	5365	7696
70°	6817	5045	8097
75°	4730	5218	8689
80°	3257	5807	9006
85°	1905	7329	9573



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1682.2	5.7
10°-20°	3957.3	13.4
20°-30°	4960.4	16.8
30°-40°	5263.6	17.8
40°-50°	4759.1	16.1
50°-60°	3450.7	11.7
60°-70°	2165.5	7.3
70°-80°	1433.0	4.9
80°-90°	825.6	2.8
90°-100°	400.0	1.4
100°-110°	276.1	0.9
110°-120°	170.4	0.6
120°-130°	82.5	0.3
130°-140°	37.9	0.1
140°-150°	20.7	0.1
150°-160°	9.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	10600.0	35.9
0°-40°	15863.6	53.8
0°-60°	24073.4	81.6
0°-90°	28497.4	96.6
90°-120°	846.4	2.9
90°-150°	987.5	3.3
90°-180°	997.0	3.4
0°-180°	29494.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	19984	19984	19984	19984	19984	
5°	19944	19432	18291	17443	17003	###
15°	20096	16380	13009	11570	11045	5699
25°	20229	12665	8711	7731	7486	9346
35°	19504	8420	6322	6124	6122	12125
45°	15419	5333	4582	4692	4772	11746
55°	8163	3306	2990	3243	3359	7376
65°	2920	1917	1731	2218	2465	3038
75°	902	1033	1162	1805	1913	1005
85°	158	428	850	1183	1086	189
90°	0	179	493	694	700	10
95°	8	126	434	590	616	7
105°	15	84	316	418	430	15
115°	21	59	213	266	272	20
125°	23	30	108	137	135	20
135°	19	23	48	74	74	15
145°	23	25	28	44	42	14
155°	23	28	30	32	28	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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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	19983.8	19983.8	19983.8	19983.8	19983.8
2.5°	19941.9	19827.8	19472.1	19255.3	19072.7
5°	19943.8	19432.2	18291.0	17442.8	17003.4
7.5°	19972.3	18835.0	16779.0	15540.8	15057.7
10°	20016.1	18095.1	15367.7	14047.8	13597.0
12.5°	20048.4	17262.1	14125.8	12769.7	12275.2
15°	20096.0	16379.6	13009.3	11569.5	11044.6
17.5°	20139.7	15548.4	11906.2	10401.7	9817.9
20°	20183.5	14652.6	10803.1	9253.0	8771.8
22.5°	20225.3	13707.3	9726.6	8361.0	8031.9
25°	20229.1	12665.1	8710.9	7731.4	7486.1
27.5°	20179.7	11584.8	7887.4	7204.6	7052.4
30°	20094.1	10536.8	7248.3	6824.2	6715.8
32.5°	19881.1	9467.9	6753.8	6457.1	6394.3
35°	19504.5	8419.9	6322.1	6124.3	6122.4
37.5°	18911.1	7489.9	5854.2	5820.0	5861.8
40°	18034.3	6675.8	5411.0	5502.3	5502.3
42.5°	16864.6	5968.3	5009.7	5102.9	5078.2
45°	15419.1	5333.1	4581.8	4692.1	4772.0
47.5°	13743.5	4773.9	4144.3	4357.4	4467.7
50°	11921.4	4241.3	3744.9	4016.9	4142.4
52.5°	10011.8	3748.7	3355.0	3667.0	3767.8
55°	8163.2	3305.6	2989.9	3242.8	3358.8
57.5°	6489.4	2883.4	2632.3	2871.9	3111.6
60°	5049.7	2520.1	2295.7	2638.0	2877.6
62.5°	3857.1	2196.7	1979.9	2419.3	2658.9
65°	2919.5	1917.2	1730.8	2217.7	2464.9
67.5°	2200.6	1675.6	1536.8	2071.2	2312.8
70°	1652.8	1441.7	1380.8	1979.9	2196.7
72.5°	1221.1	1226.8	1257.2	1900.0	2065.5
75°	901.5	1032.8	1162.1	1804.9	1913.4
77.5°	644.8	855.9	1076.5	1690.8	1728.9
80°	447.0	698.0	987.1	1540.6	1508.2
82.5°	279.6	559.2	907.2	1375.1	1285.7
85°	157.9	427.9	850.2	1183.0	1086.0
87.5°	70.4	319.5	743.7	922.4	861.6
90°	0.0	178.8	492.6	694.2	699.9
92.5°	3.8	148.4	454.6	635.3	654.3
95°	7.6	125.5	433.6	589.6	616.2
97.5°	9.5	110.3	407.0	547.8	570.6
100°	11.4	98.9	374.7	504.0	523.0
102.5°	13.3	91.3	344.3	458.4	473.6
105°	15.2	83.7	315.7	418.4	429.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	19.0	64.7	237.7	300.5	310.0
115°	20.9	59.0	213.0	266.3	272.0
117.5°	22.8	51.4	186.4	233.9	235.8
120°	22.8	45.6	159.8	199.7	199.7
122.5°	22.8	38.0	133.1	165.5	163.6
125°	22.8	30.4	108.4	136.9	135.0
127.5°	20.9	24.7	87.5	114.1	112.2
130°	20.9	24.7	70.4	97.0	97.0
132.5°	19.0	22.8	57.1	83.7	83.7
135°	19.0	22.8	47.5	74.2	74.2
137.5°	19.0	24.7	39.9	64.7	64.7
140°	19.0	22.8	34.2	57.1	57.1
142.5°	20.9	22.8	30.4	49.5	49.5
145°	22.8	24.7	28.5	43.7	41.8
147.5°	22.8	26.6	28.5	38.0	36.1
150°	22.8	28.5	28.5	34.2	32.3
152.5°	22.8	28.5	28.5	32.3	30.4
155°	22.8	28.5	30.4	32.3	28.5
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°	15.2	78.0	289.1	374.7	388.0
110°	17.1	70.4	264.4	334.7	348.1



(END OF REPORT)