

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: P827194

Luminaire Tested: **OHBL-36HE-N-UNV-L840-CD-UPL36**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P827194  
REPORT IS A COMBINATION OF REPORTS P826314 AND G3-2310-221-2  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-36HE-N-UNV-L840-CD-UPL36  
Description: 36000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND NARROW LENSAND 3600 LUMEN UPLIGHT MODULE  
Light Source: -  
Ballast/Driver: -

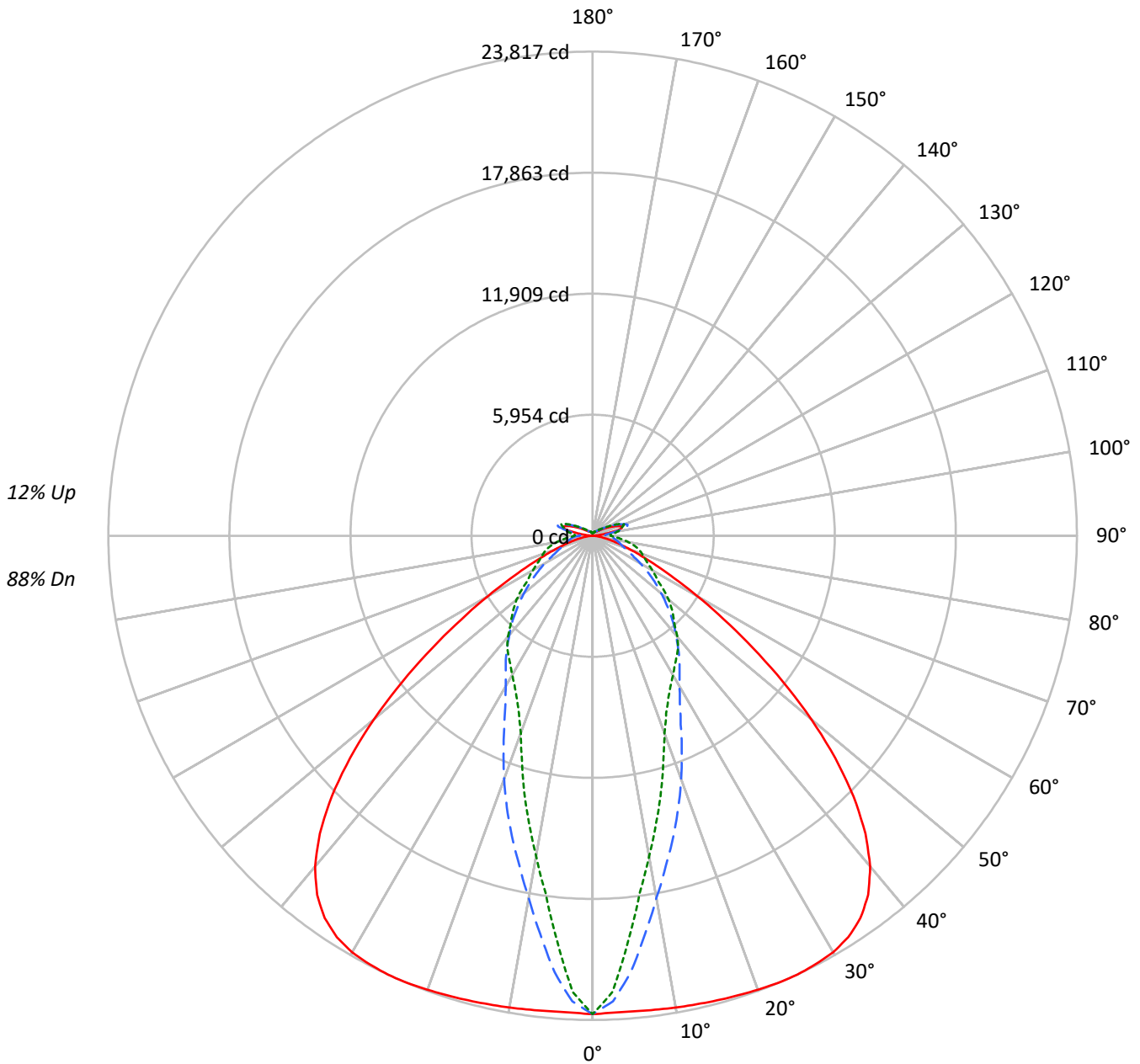
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 38307.1 lumens  
Efficiency: N/A  
Efficacy: 159.1 lumens/watt  
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')  
CIE Type: Semi-Direct  
  
Input Watts (W): 240.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	116	116	116	116	112	112	112	112	104	104	104	97	97	97	91	91	91	88																			
1	107	102	98	95	103	99	95	92	92	90	87	86	84	82	81	79	78	75																			
2	98	91	84	79	94	88	82	77	82	78	74	77	74	70	73	70	67	64																			
3	90	81	74	68	87	78	72	66	74	68	64	69	65	61	65	62	58	56																			
4	83	73	65	59	80	71	63	58	67	60	56	63	58	54	59	55	52	49																			
5	77	66	58	52	75	64	56	51	61	54	49	57	52	48	54	50	46	44																			
6	72	60	52	46	69	58	51	45	55	49	44	53	47	43	50	45	41	39																			
7	67	55	47	41	65	53	46	41	51	44	40	48	43	38	46	41	37	35																			
8	63	50	43	37	61	49	42	37	47	40	36	45	39	35	43	38	34	32																			
9	59	47	39	34	57	46	38	34	44	37	33	42	36	32	40	35	31	29																			
10	56	43	36	31	54	42	35	31	41	34	30	39	33	29	37	32	29	27																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	37209	37209	37209
5°	36977	33901	31659
10°	37236	28569	25509
15°	37800	24444	21042
20°	38689	20678	17106
25°	39839	17124	15070
30°	41010	14760	14081
35°	41634	13459	13500
40°	40674	12165	12897
45°	37160	11001	12035
50°	31100	9727	11400
55°	23404	8528	10258
60°	16205	7323	9956
65°	10731	6316	9922
70°	7173	5940	10667
75°	4820	6144	11820
80°	3142	6837	12937
85°	1639	8629	15427



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1980.6	5.2
10°-20°	4659.2	12.2
20°-30°	5840.2	15.2
30°-40°	6197.1	16.2
40°-50°	5603.2	14.6
50°-60°	4062.7	10.6
60°-70°	2549.5	6.7
70°-80°	1687.2	4.4
80°-90°	979.7	2.6
90°-100°	746.0	1.9
100°-110°	1571.1	4.1
110°-120°	1231.9	3.2
120°-130°	585.2	1.5
130°-140°	291.8	0.8
140°-150°	168.9	0.4
150°-160°	95.4	0.2
160°-170°	44.1	0.1
170°-180°	13.4	0.0
0°-30°	12480.0	32.6
0°-40°	18677.1	48.8
0°-60°	28343.0	74.0
0°-90°	33559.4	87.6
90°-120°	3549.0	9.3
90°-150°	4594.9	12.0
90°-180°	4748.0	12.4
0°-180°	38307.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	23528	23528	23528	23528	23528	
5°	23481	22879	21535	20536	20019	###
15°	23660	19285	15317	13622	13004	6710
25°	23817	14911	10256	9103	8814	11003
35°	22964	9913	7443	7210	7208	14275
45°	18154	6279	5394	5524	5618	13829
55°	9611	3892	3520	3818	3955	8684
65°	3437	2257	2038	2611	2902	3577
75°	1061	1216	1368	2125	2253	1183
85°	186	504	1001	1393	1279	223
90°	8	260	643	889	897	18
95°	71	272	676	904	952	239
105°	1495	1572	1758	1524	1437	1422
115°	1055	1085	1275	1344	1341	1065
125°	534	561	665	689	677	501
135°	322	334	371	405	406	255
145°	245	252	262	282	281	155
155°	203	213	218	222	218	91
165°	151	153	154	155	156	43
175°	138	138	139	139	140	13
180°	136	136	136	136	136	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	23528.0	23528.0	23528.0	23528.0	23528.0
2.5°	23478.8	23344.4	22925.7	22670.4	22455.4
5°	23481.0	22878.7	21535.1	20536.4	20019.1
7.5°	23514.6	22175.5	19754.9	18297.1	17728.3
10°	23566.1	21304.4	18093.3	16539.3	16008.6
12.5°	23604.2	20323.6	16631.1	15034.5	14452.3
15°	23660.2	19284.6	15316.6	13621.5	13003.5
17.5°	23711.7	18306.1	14017.8	12246.6	11559.1
20°	23763.2	17251.4	12719.1	10894.1	10327.5
22.5°	23812.4	16138.4	11451.6	9843.8	9456.4
25°	23816.9	14911.3	10255.9	9102.6	8813.8
27.5°	23758.7	13639.4	9286.3	8482.4	8303.2
30°	23657.9	12405.6	8533.9	8034.5	7906.9
32.5°	23407.1	11147.1	7951.7	7602.3	7528.4
35°	22963.7	9913.3	7443.3	7210.5	7208.2
37.5°	22265.1	8818.3	6892.5	6852.2	6901.4
40°	21232.8	7859.8	6370.7	6478.2	6478.2
42.5°	19855.6	7026.8	5898.2	6008.0	5978.9
45°	18153.8	6278.9	5394.4	5524.3	5618.3
47.5°	16181.0	5620.6	4879.4	5130.2	5260.1
50°	14035.8	4993.6	4409.1	4729.3	4877.1
52.5°	11787.5	4413.6	3950.1	4317.3	4436.0
55°	9611.0	3891.9	3520.1	3818.0	3954.6
57.5°	7640.4	3394.7	3099.2	3381.3	3663.5
60°	5945.3	2967.0	2702.8	3105.9	3388.0
62.5°	4541.2	2586.4	2331.1	2848.4	3130.5
65°	3437.3	2257.2	2037.7	2611.0	2902.1
67.5°	2590.8	1972.8	1809.3	2438.6	2723.0
70°	1945.9	1697.4	1625.7	2331.1	2586.4
72.5°	1437.6	1444.3	1480.2	2237.0	2431.9
75°	1061.4	1215.9	1368.2	2125.1	2252.7
77.5°	759.1	1007.7	1267.4	1990.7	2035.5
80°	526.2	821.8	1162.2	1813.8	1775.7
82.5°	329.2	658.3	1068.1	1619.0	1513.7
85°	185.9	503.8	1001.0	1392.8	1278.6
87.5°	82.9	376.2	875.6	1086.0	1014.4
90°	8.0	259.5	643.0	889.3	897.1
92.5°	29.5	234.7	612.2	843.9	872.3
95°	71.0	271.8	675.6	904.2	951.5
97.5°	385.2	531.9	828.2	1061.9	1112.8
100°	816.4	940.4	1080.1	1237.4	1279.8
102.5°	1273.7	1382.5	1413.3	1373.7	1361.6
105°	1494.9	1572.5	1757.7	1523.6	1437.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1232.4	1289.1	1481.9	1551.8	1531.0
115°	1054.6	1085.4	1274.8	1344.5	1341.2
117.5°	907.9	931.5	1098.4	1150.4	1141.7
120°	767.9	794.7	939.1	972.1	964.1
122.5°	640.9	672.8	791.7	819.8	804.6
125°	533.9	560.8	664.6	689.2	677.0
127.5°	459.6	470.1	558.0	584.4	582.1
130°	398.6	411.1	475.9	509.2	507.2
132.5°	354.4	366.9	417.2	451.5	454.5
135°	322.4	333.9	371.0	405.3	406.3
137.5°	296.4	309.1	333.0	367.1	368.1
140°	274.4	284.9	304.3	335.2	335.2
142.5°	258.6	266.9	280.8	306.2	306.2
145°	244.9	252.1	261.6	282.5	281.3
147.5°	232.9	241.3	248.6	260.8	259.5
150°	221.9	231.6	235.6	244.3	243.1
152.5°	211.9	221.6	225.6	231.1	229.8
155°	202.9	212.6	217.8	222.1	217.6
157.5°	168.0	171.0	174.0	175.0	175.0
160°	162.0	164.0	167.0	167.0	168.0
162.5°	156.0	158.0	160.0	161.0	162.0
165°	151.0	153.0	154.0	155.0	156.0
167.5°	147.0	148.0	149.0	150.0	150.0
170°	143.0	144.0	145.0	145.0	146.0
172.5°	140.0	141.0	142.0	142.0	142.0
175°	138.0	138.0	139.0	139.0	140.0
177.5°	136.0	137.0	137.0	137.0	138.0
180°	136.0	136.0	136.0	136.0	136.0



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°    - - 45°-225°    - - - - 90°-270°







107.5°	1508.9	1585.8	1798.4	1725.1	1566.8
110°	1396.2	1471.9	1677.3	1703.1	1639.8



(END OF REPORT)