

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: P827187

Luminaire Tested: **OHBL-36HE-A-UNV-L840-CD-UPL18**

Issue Date: 5/3/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P827187  
REPORT IS A COMBINATION OF REPORTS P826167 AND G3-2310-221-8  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-36HE-A-UNV-L840-CD-UPL18  
Description: 36000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND AISLE LENS AND 1800 LUMEN UPLIGHT MODULE  
Light Source: -  
Ballast/Driver: -

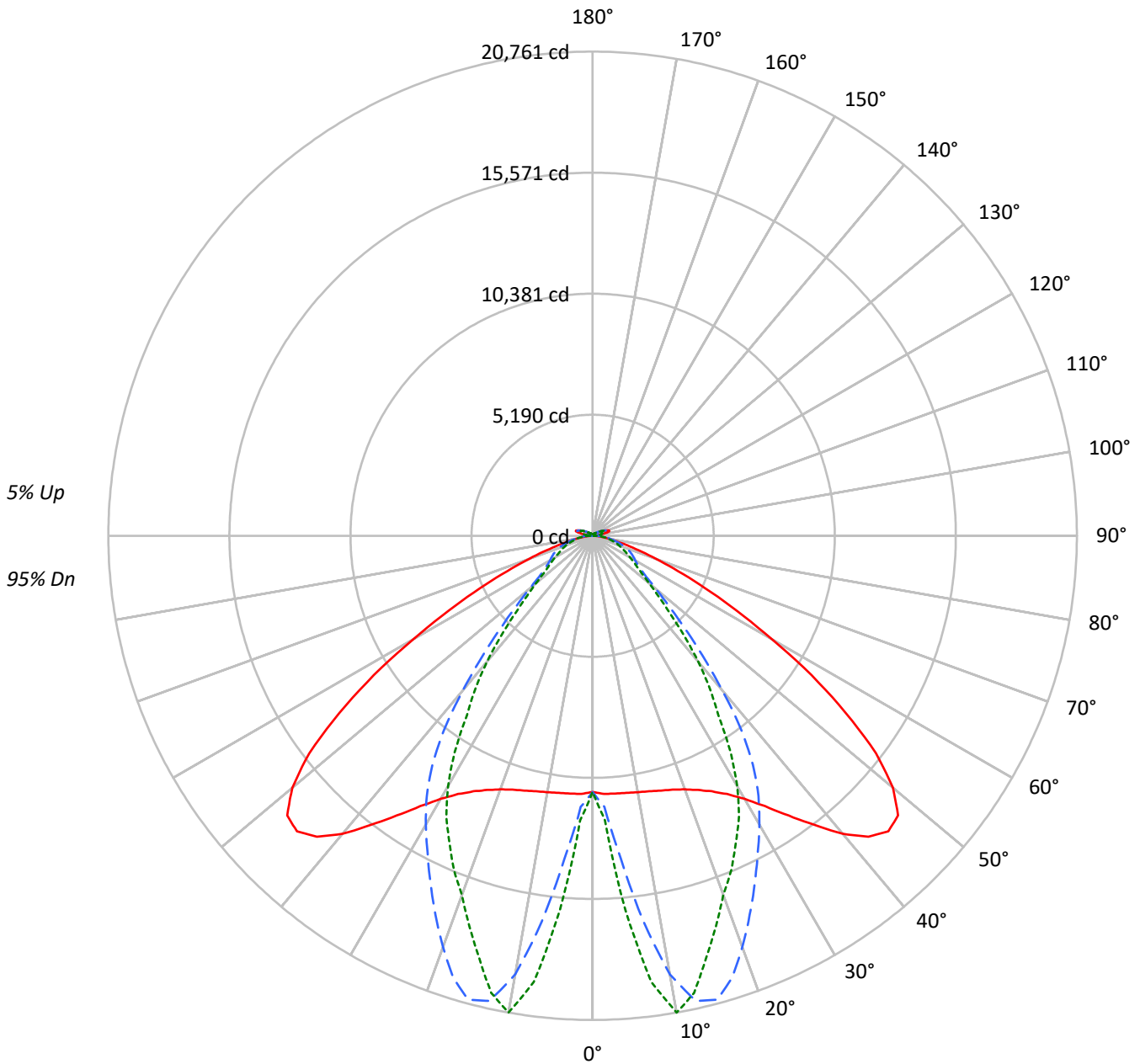
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 37044.9 lumens  
Efficiency: N/A  
Efficacy: 165.2 lumens/watt  
Spacing Criteria (0/90/45): 2.18 / 1.37 / 1.3  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 224.3  
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	118	118	118	118	115	115	115	115	108	108	108	103	103	103	98	98	98	95																			
1	109	105	102	99	106	103	100	97	98	95	93	93	91	89	89	87	86	83																			
2	101	94	88	84	98	92	87	82	88	83	80	84	80	77	80	77	75	73																			
3	94	85	78	72	91	83	76	71	79	74	69	76	71	68	73	69	66	64																			
4	87	76	69	63	84	75	68	62	72	66	61	69	64	60	66	62	58	56																			
5	81	69	61	56	78	68	61	55	65	59	54	63	57	53	61	56	52	50																			
6	75	63	55	49	73	62	54	49	60	53	48	58	52	48	56	51	47	45																			
7	70	58	50	44	68	57	49	44	55	48	43	53	47	43	51	46	42	40																			
8	65	53	45	40	64	52	45	40	51	44	39	49	43	39	48	42	38	37																			
9	61	49	42	37	60	48	41	36	47	40	36	46	40	36	44	39	35	33																			
10	58	46	38	33	56	45	38	33	44	37	33	42	37	33	41	36	32	31																			

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

	0°	45°	90°
0°	17375	17375	17375
5°	17475	21863	25470
10°	17641	30155	33082
15°	18074	32865	30364
20°	18833	30508	27136
25°	20221	27451	24821
30°	22565	24731	22071
35°	26549	21658	17588
40°	31951	16504	13997
45°	36687	11252	9963
50°	37237	7725	7368
55°	32276	6085	6020
60°	24151	5700	5416
65°	16590	5727	5130
70°	10638	5536	4968
75°	6424	5138	4754
80°	3806	4537	4905
85°	1856	3931	4547



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1434.3	3.9
10°-20°	5062.3	13.7
20°-30°	7459.6	20.1
30°-40°	7838.8	21.2
40°-50°	5998.1	16.2
50°-60°	3621.9	9.8
60°-70°	2210.2	6.0
70°-80°	1206.4	3.3
80°-90°	427.9	1.2
90°-100°	171.2	0.5
100°-110°	594.6	1.6
110°-120°	510.9	1.4
120°-130°	245.3	0.7
130°-140°	122.6	0.3
140°-150°	71.2	0.2
150°-160°	41.5	0.1
160°-170°	21.5	0.1
170°-180°	6.6	0.0
0°-30°	13956.1	37.7
0°-40°	21794.9	58.8
0°-60°	31415.0	84.8
0°-90°	35259.5	95.2
90°-120°	1276.7	3.4
90°-150°	1715.8	4.6
90°-180°	1785.0	4.8
0°-180°	37044.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	10986	10986	10986	10986	10986	
5°	11097	11905	13888	15507	16106	###
15°	11313	17620	20593	19216	18764	3217
25°	12089	20450	16440	14884	14517	5650
35°	14643	16376	11977	9974	9391	9289
45°	17923	9345	5517	4855	4651	13542
55°	13254	3169	2512	2328	2321	11712
65°	5314	2006	1848	1581	1500	5445
75°	1415	1248	1144	944	906	1628
85°	211	387	456	416	377	260
90°	4	25	34	45	50	14
95°	38	82	129	167	191	120
105°	741	734	626	441	407	703
115°	513	519	518	512	511	517
125°	250	262	269	268	266	235
135°	148	151	156	158	159	117
145°	108	110	113	114	114	68
155°	86	88	89	90	90	40
165°	74	75	75	76	76	21
175°	67	67	68	68	68	6
180°	67	67	67	67	67	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	10986.4	10986.4	10986.4	10986.4	10986.4
2.5°	11076.4	11189.5	11635.1	12097.8	12210.4
5°	11096.7	11905.1	13888.0	15507.2	16105.6
7.5°	11120.2	13064.5	16679.4	18661.8	19296.4
10°	11165.0	14530.6	19098.1	20521.3	20761.1
12.5°	11220.6	16083.9	20429.0	20377.2	20074.7
15°	11312.9	17620.2	20592.9	19216.3	18764.5
17.5°	11409.9	18920.0	19877.8	17952.8	17559.4
20°	11567.8	19884.8	18765.5	16829.7	16382.6
22.5°	11795.3	20415.3	17599.0	15813.9	15522.3
25°	12088.8	20449.7	16440.5	14884.4	14517.0
27.5°	12482.2	19975.3	15330.1	13973.8	13585.6
30°	13017.4	19067.0	14298.4	12875.6	12394.1
32.5°	13744.3	17759.6	13234.6	11549.9	11010.0
35°	14643.2	16376.4	11977.2	9974.5	9391.2
37.5°	15624.1	14840.6	10451.2	8579.5	8239.8
40°	16679.4	13258.1	8642.6	7274.0	7030.9
42.5°	17502.9	11537.6	6962.6	6044.9	5786.2
45°	17922.7	9344.6	5517.2	4854.8	4650.9
47.5°	17759.2	7253.8	4373.8	3857.5	3796.2
50°	16805.2	5356.1	3501.3	3177.7	3152.2
52.5°	15313.6	3992.2	2892.2	2692.0	2648.1
55°	13254.4	3168.7	2511.5	2327.8	2320.7
57.5°	11128.2	2692.0	2279.7	2137.5	2088.0
60°	8860.3	2400.3	2104.0	1943.4	1843.0
62.5°	6945.2	2196.3	1974.9	1756.8	1663.0
65°	5313.7	2006.0	1847.7	1581.1	1500.5
67.5°	3961.1	1824.6	1692.2	1396.4	1349.3
70°	2886.1	1638.5	1515.1	1241.9	1204.6
72.5°	2056.9	1452.9	1338.0	1096.8	1055.8
75°	1414.8	1247.5	1144.3	944.1	906.0
77.5°	954.5	1037.9	953.5	806.1	790.1
80°	637.4	823.0	771.2	683.1	673.2
82.5°	386.8	597.4	608.7	555.4	528.6
85°	210.6	386.8	456.0	415.5	376.9
87.5°	82.4	214.4	314.2	282.2	265.7
90°	4.0	25.0	34.0	45.0	50.0
92.5°	13.0	33.0	55.0	76.0	84.0
95°	38.0	82.0	129.0	167.0	191.0
97.5°	195.0	213.0	238.0	282.0	298.0
100°	402.0	422.0	354.0	371.0	377.0
102.5°	629.0	628.0	454.0	410.0	404.0
105°	741.0	734.0	626.0	441.0	407.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	602.0	606.0	594.0	578.0	553.0
115°	513.0	519.0	518.0	512.0	511.0
117.5°	437.0	440.0	442.0	440.0	441.0
120°	365.0	372.0	376.0	373.0	371.0
122.5°	305.0	314.0	319.0	316.0	314.0
125°	250.0	262.0	269.0	268.0	266.0
127.5°	212.0	221.0	230.0	229.0	227.0
130°	184.0	191.0	197.0	198.0	199.0
132.5°	165.0	168.0	174.0	175.0	177.0
135°	148.0	151.0	156.0	158.0	159.0
137.5°	135.0	138.0	142.0	144.0	145.0
140°	124.0	127.0	130.0	132.0	133.0
142.5°	115.0	118.0	121.0	122.0	123.0
145°	108.0	110.0	113.0	114.0	114.0
147.5°	101.0	103.0	105.0	107.0	107.0
150°	95.0	97.0	99.0	100.0	101.0
152.5°	91.0	92.0	94.0	95.0	95.0
155°	86.0	88.0	89.0	90.0	90.0
157.5°	83.0	84.0	85.0	86.0	86.0
160°	80.0	80.0	81.0	82.0	82.0
162.5°	77.0	77.0	78.0	79.0	79.0
165°	74.0	75.0	75.0	76.0	76.0
167.5°	72.0	72.0	73.0	73.0	74.0
170°	70.0	70.0	71.0	71.0	71.0
172.5°	68.0	69.0	69.0	69.0	69.0
175°	67.0	67.0	68.0	68.0	68.0
177.5°	66.0	67.0	67.0	67.0	67.0
180°	67.0	67.0	67.0	67.0	67.0



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	748.0	748.0	690.0	536.0	449.0
110°	685.0	693.0	663.0	603.0	534.0



(END OF REPORT)