

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: P827136

Luminaire Tested: **OHBL-24HE-N-UNV-L840-CD-UPL12**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P827136
REPORT IS A COMBINATION OF REPORTS P826074 AND G3-2310-221-12
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-24HE-N-UNV-L840-CD-UPL12
Description: 24000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND NARROW LENS AND 1200 LUMEN UPLIGHT MODULE
Light Source: -
Ballast/Driver: -

Summary

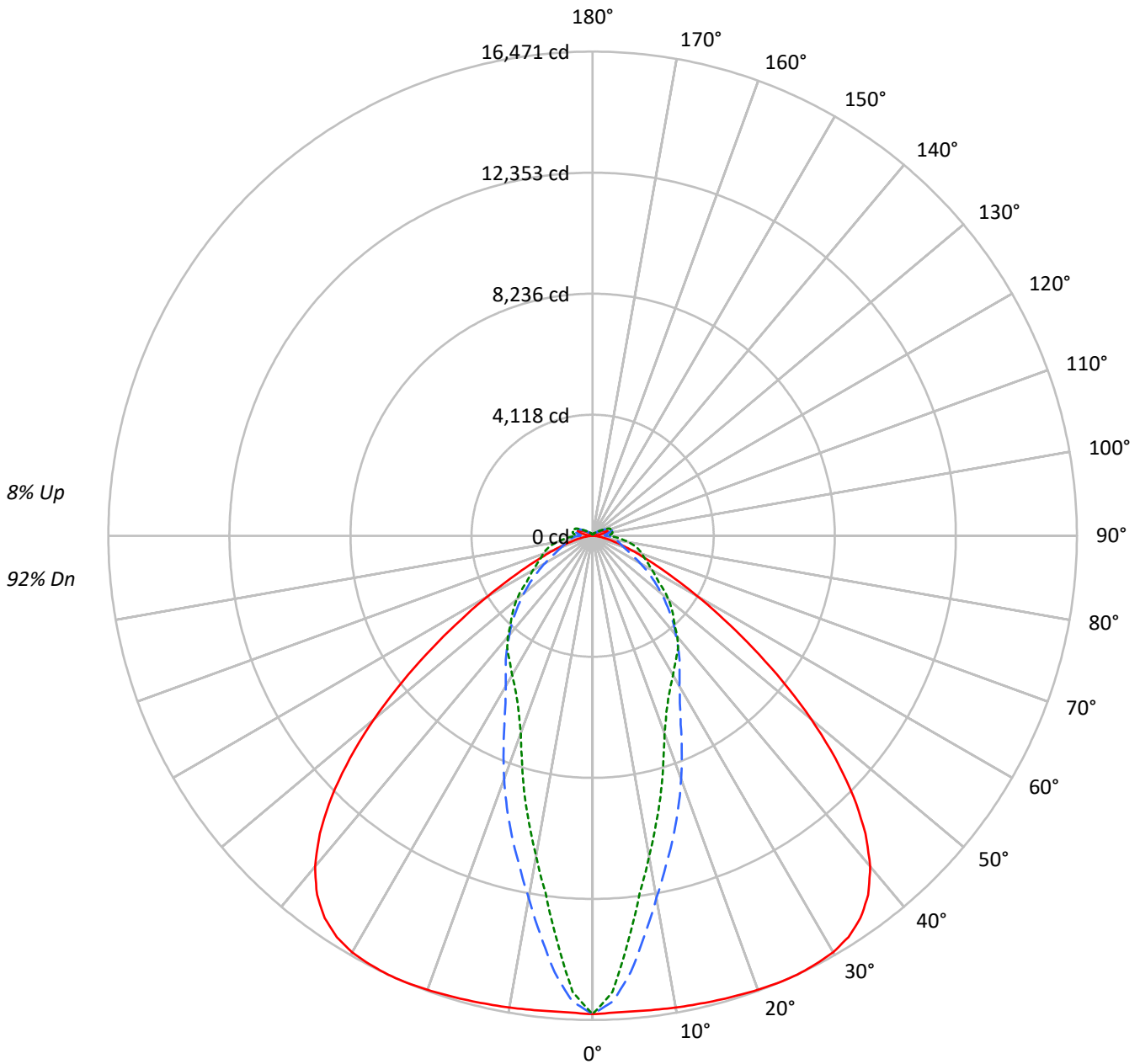
Lumens per Lamp: N/A
Luminaire Lumens: 25260.3 lumens
Efficiency: N/A
Efficacy: 178.6 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')
CIE Type: Direct

Input Watts (W): 141.4
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

TEST NUMBER: P827136

CATALOG NUMBER: OHBL-24HE-N-UNV-L840-CD-UPL12

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	117	117	117	117	113	113	113	113	107	107	107	100	100	100	95	95	95	92																			
1	108	103	99	96	104	100	97	93	94	92	89	89	87	85	84	83	81	78																			
2	99	92	85	80	96	89	83	79	84	80	76	80	76	73	76	73	70	67																			
3	91	82	74	68	88	80	73	67	76	70	65	72	67	63	68	64	61	59																			
4	84	74	66	59	82	72	64	59	68	62	57	65	60	55	62	58	54	52																			
5	78	67	58	52	76	65	57	52	62	55	50	59	54	49	57	52	48	46																			
6	73	61	52	47	70	59	52	46	57	50	45	54	49	44	52	47	43	41																			
7	68	56	48	42	66	54	47	41	52	46	41	50	44	40	48	43	39	37																			
8	64	51	43	38	62	50	43	38	48	42	37	46	41	36	45	39	36	34																			
9	60	47	40	35	58	46	39	34	45	38	34	43	37	33	42	36	33	31																			
10	56	44	37	32	55	43	36	32	42	35	31	40	35	31	39	34	30	28																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25733	25733	25733
5°	25572	23445	21894
10°	25752	19757	17642
15°	26142	16905	14552
20°	26756	14301	11830
25°	27552	11843	10422
30°	28361	10208	9738
35°	28793	9308	9336
40°	28129	8413	8919
45°	25699	7608	8323
50°	21508	6727	7884
55°	16186	5898	7094
60°	11207	5064	6885
65°	7421	4368	6862
70°	4961	4108	7377
75°	3333	4249	8174
80°	2173	4728	8948
85°	1133	5967	10670



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1369.7	5.4
10°-20°	3222.2	12.8
20°-30°	4039.0	16.0
30°-40°	4285.8	17.0
40°-50°	3875.0	15.3
50°-60°	2809.6	11.1
60°-70°	1763.2	7.0
70°-80°	1166.8	4.6
80°-90°	675.4	2.7
90°-100°	444.6	1.8
100°-110°	638.7	2.5
110°-120°	494.2	2.0
120°-130°	237.6	0.9
130°-140°	116.1	0.5
140°-150°	66.5	0.3
150°-160°	36.3	0.1
160°-170°	15.0	0.1
170°-180°	4.6	0.0
0°-30°	8630.8	34.2
0°-40°	12916.6	51.1
0°-60°	19601.3	77.6
0°-90°	23206.7	91.9
90°-120°	1577.6	6.2
90°-150°	1997.8	7.9
90°-180°	2054.0	8.1
0°-180°	25260.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16271	16271	16271	16271	16271	
5°	16239	15822	14893	14202	13845	###
15°	16363	13337	10593	9420	8993	4640
25°	16471	10312	7093	6295	6095	7609
35°	15881	6856	5148	4987	4985	9873
45°	12555	4342	3731	3820	3886	9564
55°	6647	2692	2434	2640	2735	6006
65°	2377	1561	1409	1806	2007	2474
75°	734	841	946	1470	1558	818
85°	128	348	692	963	884	154
90°	3	164	425	596	605	10
95°	31	160	439	596	636	88
105°	529	579	693	650	634	502
115°	377	408	534	575	574	377
125°	195	208	275	296	296	180
135°	118	124	148	170	170	93
145°	94	97	101	115	114	59
155°	79	84	87	89	86	34
165°	52	52	53	53	53	15
175°	47	47	47	47	47	5
180°	46	46	46	46	46	



TEST NUMBER: P827136

CATALOG NUMBER: OHBL-24HE-N-UNV-L840-CD-UPL12

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	16271.4	16271.4	16271.4	16271.4	16271.4
2.5°	16237.4	16144.5	15854.9	15678.3	15529.7
5°	16238.9	15822.3	14893.2	14202.5	13844.7
7.5°	16262.2	15336.1	13662.0	12653.8	12260.5
10°	16297.8	14733.7	12512.9	11438.2	11071.1
12.5°	16324.1	14055.4	11501.7	10397.5	9994.9
15°	16362.8	13336.8	10592.6	9420.3	8992.9
17.5°	16398.4	12660.0	9694.4	8469.5	7994.0
20°	16434.0	11930.6	8796.2	7534.1	7142.3
22.5°	16468.1	11161.0	7919.7	6807.8	6539.9
25°	16471.2	10312.3	7092.7	6295.2	6095.4
27.5°	16431.0	9432.7	6422.2	5866.2	5742.3
30°	16361.3	8579.4	5901.8	5556.5	5468.2
32.5°	16187.8	7709.1	5499.2	5257.6	5206.5
35°	15881.2	6855.8	5147.6	4986.6	4985.0
37.5°	15398.0	6098.5	4766.7	4738.8	4772.9
40°	14684.1	5435.7	4405.8	4480.2	4480.2
42.5°	13731.7	4859.6	4079.1	4155.0	4134.8
45°	12554.7	4342.4	3730.6	3820.5	3885.5
47.5°	11190.4	3887.1	3374.5	3547.9	3637.7
50°	9706.8	3453.4	3049.3	3270.7	3372.9
52.5°	8152.0	3052.3	2731.8	2985.8	3067.8
55°	6646.7	2691.5	2434.4	2640.4	2734.9
57.5°	5283.9	2347.7	2143.3	2338.4	2533.6
60°	4111.6	2051.9	1869.2	2147.9	2343.1
62.5°	3140.6	1788.7	1612.1	1969.9	2165.0
65°	2377.1	1561.0	1409.3	1805.7	2007.0
67.5°	1791.8	1364.3	1251.3	1686.5	1883.1
70°	1345.8	1173.9	1124.3	1612.1	1788.7
72.5°	994.2	998.9	1023.6	1547.1	1681.8
75°	734.1	840.9	946.2	1469.6	1557.9
77.5°	525.0	696.9	876.5	1376.7	1407.7
80°	363.9	568.3	803.7	1254.4	1228.1
82.5°	227.6	455.3	738.7	1119.7	1046.9
85°	128.5	348.4	692.2	963.2	884.3
87.5°	57.3	260.2	605.5	751.1	701.5
90°	3.0	163.6	425.1	596.2	604.9
92.5°	12.1	143.8	408.1	571.2	591.7
95°	31.2	160.2	439.1	596.1	635.8
97.5°	142.7	236.8	497.4	642.0	670.6
100°	285.3	377.5	552.1	668.4	688.9
102.5°	449.8	507.3	596.3	659.2	666.6
105°	529.4	579.1	693.1	649.7	634.0



TEST NUMBER: P827136

CATALOG NUMBER: OHBL-24HE-N-UNV-L840-CD-UPL12

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	433.5	473.7	611.6	646.7	637.4
115°	377.0	408.0	534.4	574.8	573.5
117.5°	320.6	347.8	460.8	496.5	496.0
120°	271.6	296.2	391.1	419.6	419.6
122.5°	231.6	249.0	329.4	352.7	352.2
125°	194.6	207.8	275.3	296.5	296.0
127.5°	164.0	173.1	231.2	251.9	250.4
130°	145.0	152.1	194.3	217.0	217.0
132.5°	129.5	135.6	167.5	190.1	191.1
135°	117.5	123.6	147.7	170.4	170.4
137.5°	109.5	116.1	131.5	152.7	153.7
140°	101.5	107.6	118.9	138.5	138.5
142.5°	97.0	100.6	108.8	125.3	126.3
145°	93.6	97.1	101.2	114.6	114.1
147.5°	88.6	93.7	97.2	105.0	104.4
150°	85.6	91.2	92.2	97.9	96.3
152.5°	81.6	87.2	88.2	92.3	90.8
155°	78.6	84.2	86.8	89.3	86.2
157.5°	57.0	59.0	59.0	60.0	60.0
160°	55.0	56.0	57.0	57.0	57.0
162.5°	53.0	54.0	54.0	55.0	55.0
165°	52.0	52.0	53.0	53.0	53.0
167.5°	50.0	50.0	51.0	51.0	51.0
170°	49.0	49.0	49.0	50.0	50.0
172.5°	48.0	48.0	48.0	48.0	48.0
175°	47.0	47.0	47.0	47.0	47.0
177.5°	46.0	47.0	47.0	47.0	47.0
180°	46.0	46.0	46.0	46.0	46.0



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	532.4	585.5	716.4	678.1	624.9
110°	489.9	540.3	676.3	692.6	652.4



(END OF REPORT)