

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: P827137

Luminaire Tested: **OHBL-24HE-N-UNV-L840-CD-UPL24**

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P827137
REPORT IS A COMBINATION OF REPORTS P826242 AND G3-2310-221-6
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-UPL24
Description: 24000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND NARROW LENS AND 2400 LUMEN UPLIGHT MODULE
Light Source: -
Ballast/Driver: -

Summary

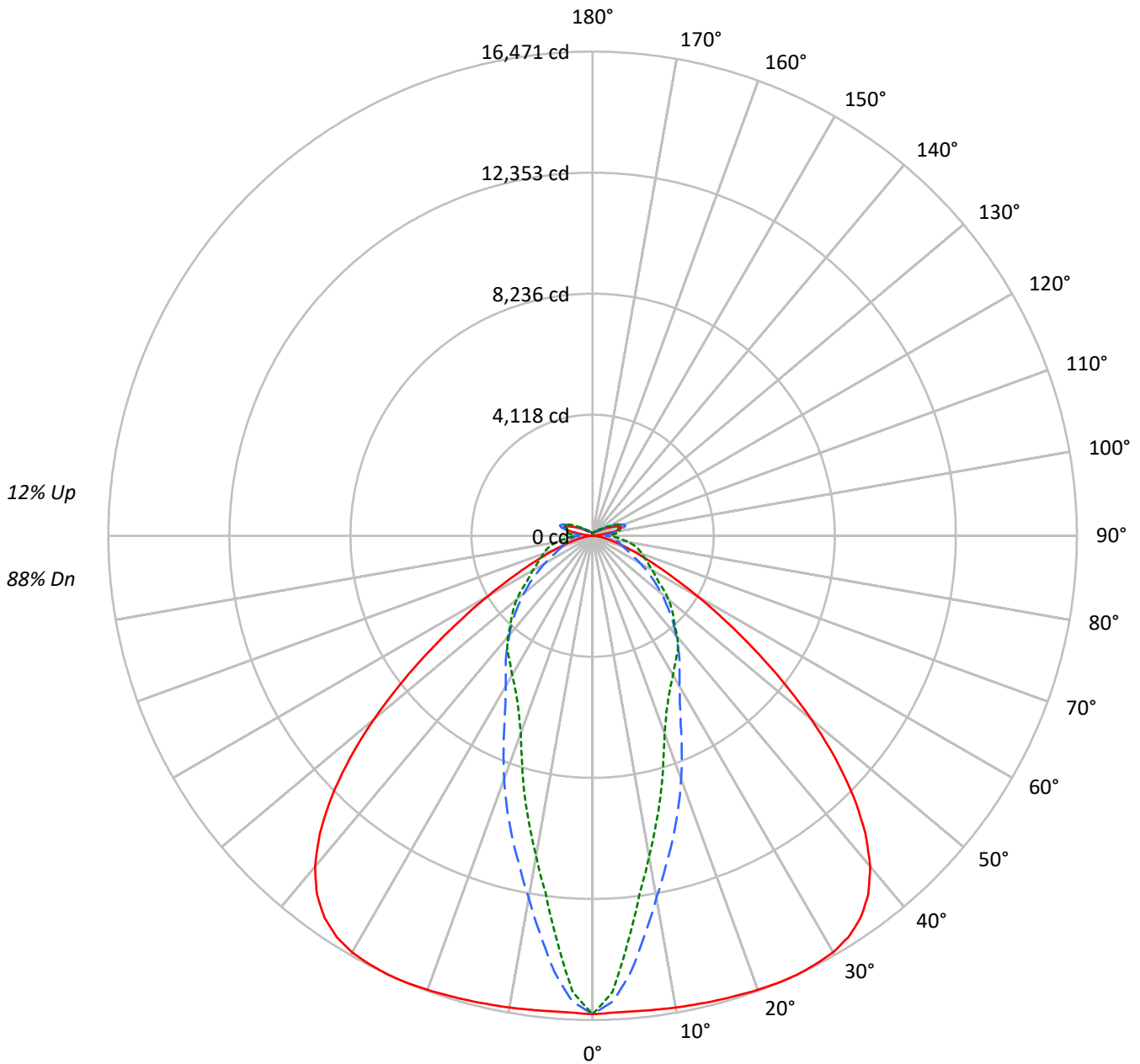
Lumens per Lamp: N/A
Luminaire Lumens: 26435.3 lumens
Efficiency: N/A
Efficacy: 175.8 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 150.4
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

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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	87	84	82	81	79	78	75																			
2	98	91	85	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	70	65	61	66	62	59	56																			
4	84	73	65	59	80	71	63	58	67	61	56	63	58	54	60	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	39	46	41	37	35																			
8	63	50	43	37	61	49	42	37	47	41	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	30																			
10	56	43	36	31	54	42	36	31	41	34	30	39	33	30	37	32	29	27																			

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	5.2
10°-20°	3222.2	12.2
20°-30°	4039.0	15.3
30°-40°	4285.8	16.2
40°-50°	3875.0	14.7
50°-60°	2809.6	10.6
60°-70°	1763.2	6.7
70°-80°	1166.8	4.4
80°-90°	678.4	2.6
90°-100°	557.5	2.1
100°-110°	1029.7	3.9
110°-120°	829.2	3.1
120°-130°	398.4	1.5
130°-140°	196.6	0.7
140°-150°	112.9	0.4
150°-160°	63.3	0.2
160°-170°	29.0	0.1
170°-180°	8.8	0.0
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0°-30°	8630.8	32.6
0°-40°	12916.6	48.9
0°-60°	19601.3	74.1
0°-90°	23209.7	87.8
90°-120°	2416.4	9.1
90°-150°	3124.4	11.8
90°-180°	3226.0	12.2
0°-180°	26435.3	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°	5	180	448	627	639	12
95°	59	213	525	708	760	170
105°	1015	1060	1101	942	902	964
115°	709	747	872	914	912	715
125°	357	381	451	474	469	333
135°	216	223	250	273	275	170
145°	164	169	175	189	188	103
155°	135	141	145	147	144	60
165°	100	101	102	102	102	29
175°	90	91	91	92	92	9
180°	90	90	90	90	90	



TEST NUMBER: P827137

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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°	5.0	179.6	448.1	627.2	638.9
92.5°	20.1	165.8	442.1	619.2	647.7
95°	59.2	213.2	525.1	708.1	759.8
97.5°	276.7	380.8	644.4	825.0	876.6
100°	561.3	666.5	778.1	910.4	934.9
102.5°	863.8	922.3	898.3	927.2	931.6
105°	1015.4	1060.1	1101.1	941.7	902.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	823.5	872.7	997.6	1025.7	1001.4
115°	709.0	747.0	872.4	913.8	912.5
117.5°	610.6	634.8	748.8	786.5	789.0
120°	508.6	538.2	640.1	667.6	661.6
122.5°	429.6	454.0	537.4	561.7	554.2
125°	356.6	380.8	451.3	473.5	469.0
127.5°	303.0	319.1	380.2	402.9	400.4
130°	266.0	277.1	324.3	347.0	348.0
132.5°	236.5	246.6	281.5	307.1	306.1
135°	215.5	222.6	249.7	273.4	275.4
137.5°	198.5	206.1	224.5	247.7	247.7
140°	183.5	190.6	204.9	225.5	226.5
142.5°	172.0	177.6	187.8	205.3	205.3
145°	163.6	169.1	175.2	188.6	188.1
147.5°	154.6	161.7	165.2	175.0	173.4
150°	147.6	154.2	157.2	162.9	162.3
152.5°	140.6	147.2	150.2	154.3	152.8
155°	134.6	141.2	144.8	147.3	144.2
157.5°	111.0	113.0	115.0	116.0	116.0
160°	107.0	108.0	110.0	111.0	111.0
162.5°	103.0	104.0	105.0	106.0	106.0
165°	100.0	101.0	102.0	102.0	102.0
167.5°	97.0	97.0	98.0	99.0	99.0
170°	94.0	95.0	95.0	96.0	96.0
172.5°	92.0	93.0	93.0	93.0	94.0
175°	90.0	91.0	91.0	92.0	92.0
177.5°	90.0	90.0	90.0	90.0	90.0
180°	90.0	90.0	90.0	90.0	90.0



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	1019.4	1074.5	1168.4	1034.1	922.9
110°	942.9	995.3	1108.3	1088.6	1001.4



(END OF REPORT)