

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: P827128

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

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P827128
REPORT IS A COMBINATION OF REPORTS P826239 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-A-UNV-L840-CD-UPL24
Description: 24000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND AISLE LENS AND 2400 LUMEN UPLIGHT MODULE
Light Source: -
Ballast/Driver: -

Summary

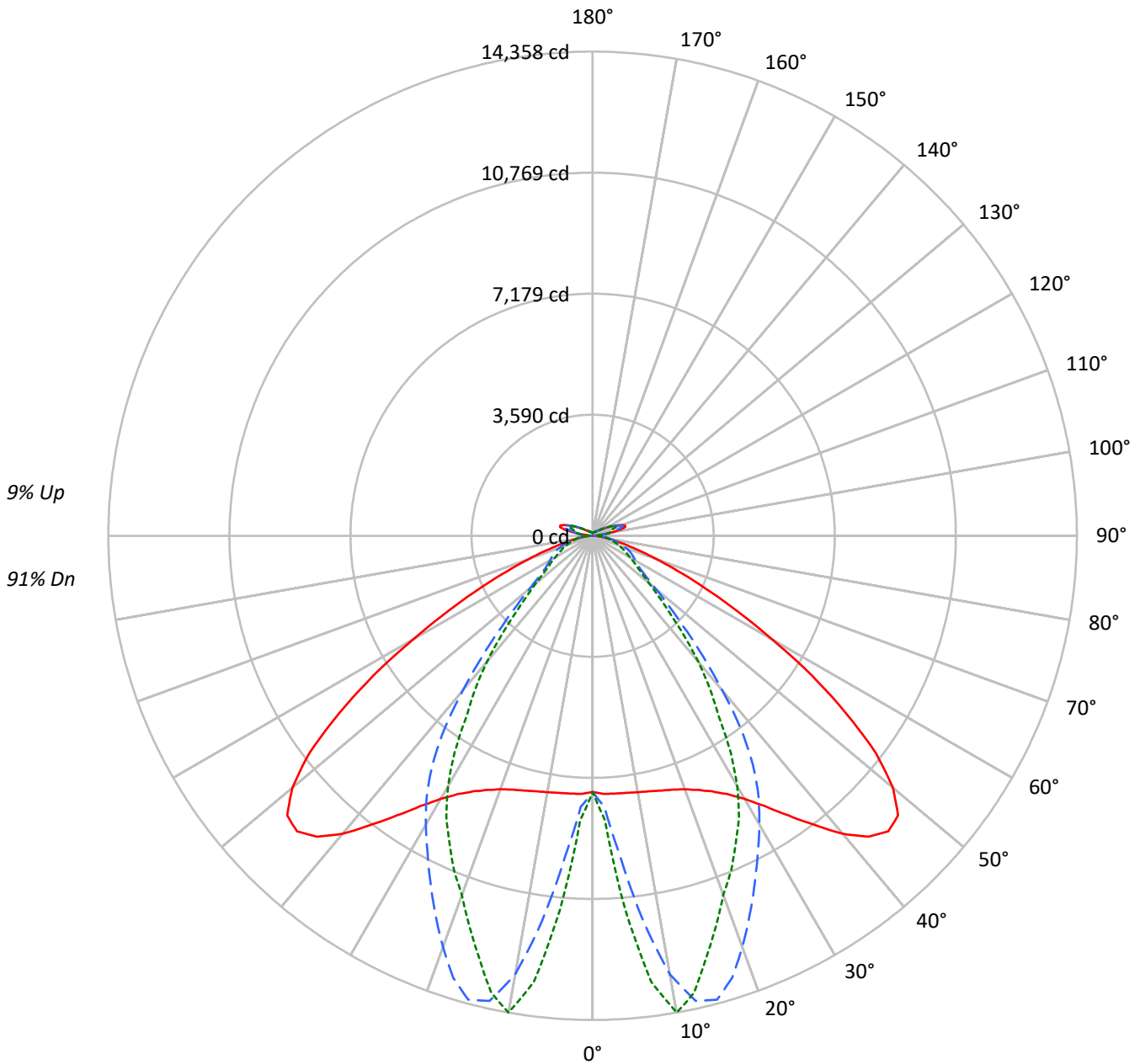
Lumens per Lamp: N/A
Luminaire Lumens: 26801.3 lumens
Efficiency: N/A
Efficacy: 178.2 lumens/watt
Spacing Criteria (0/90/45): 2.18 / 1.37 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')
CIE Type: Direct

Input Watts (W): 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	117	117	117	117	113	113	113	113	106	106	106	100	100	100	94	94	94	91																			
1	108	104	101	98	105	101	98	95	96	93	91	90	88	86	85	84	82	80																			
2	100	93	88	83	97	91	85	81	86	82	78	81	78	75	77	74	72	69																			
3	93	84	77	71	90	81	75	70	77	72	68	74	69	65	70	66	63	61																			
4	86	75	68	62	83	74	67	61	70	64	59	67	62	58	64	60	56	54																			
5	80	68	60	55	77	67	59	54	64	57	53	61	56	51	58	54	50	48																			
6	74	62	54	49	72	61	53	48	58	52	47	56	50	46	54	49	45	43																			
7	69	57	49	44	67	56	48	43	53	47	42	51	46	41	49	44	41	39																			
8	65	52	45	39	63	51	44	39	49	43	38	47	42	38	46	41	37	35																			
9	61	48	41	36	59	47	40	36	46	39	35	44	38	34	42	37	34	32																			
10	57	45	38	33	55	44	37	32	42	36	32	41	35	31	40	35	31	29																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12016	12016	12016
5°	12085	15119	17614
10°	12200	20854	22879
15°	12499	22728	20998
20°	13024	21098	18766
25°	13984	18984	17166
30°	15605	17103	15264
35°	18360	14978	12163
40°	22096	11413	9680
45°	25371	7781	6890
50°	25751	5342	5096
55°	22321	4208	4163
60°	16702	3942	3745
65°	11473	3961	3548
70°	7357	3828	3436
75°	4443	3554	3287
80°	2632	3137	3392
85°	1283	2719	3144



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	991.9	3.7
10°-20°	3500.9	13.1
20°-30°	5158.7	19.2
30°-40°	5421.0	20.2
40°-50°	4148.1	15.5
50°-60°	2504.8	9.3
60°-70°	1528.5	5.7
70°-80°	834.3	3.1
80°-90°	299.0	1.1
90°-100°	231.8	0.9
100°-110°	804.9	3.0
110°-120°	690.5	2.6
120°-130°	331.2	1.2
130°-140°	165.7	0.6
140°-150°	96.1	0.4
150°-160°	56.0	0.2
160°-170°	29.0	0.1
170°-180°	8.8	0.0
0°-30°	9651.5	36.0
0°-40°	15072.5	56.2
0°-60°	21725.4	81.1
0°-90°	24387.2	91.0
90°-120°	1727.2	6.4
90°-150°	2320.3	8.7
90°-180°	2414.0	9.0
0°-180°	26801.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7598	7598	7598	7598	7598	
5°	7674	8233	9604	10724	11138	734
15°	7824	12185	14241	13289	12977	2224
25°	8360	14142	11370	10294	10039	3907
35°	10127	11325	8283	6898	6495	6424
45°	12395	6462	3816	3357	3216	9365
55°	9166	2191	1737	1610	1605	8100
65°	3675	1387	1278	1093	1038	3765
75°	978	863	791	653	626	1126
85°	146	268	315	287	261	180
90°	5	34	47	62	69	12
95°	53	111	172	228	258	165
105°	1003	992	844	601	552	952
115°	692	699	699	697	691	698
125°	338	356	363	362	359	317
135°	200	204	211	213	215	158
145°	145	149	152	153	154	92
155°	116	118	120	121	121	54
165°	100	101	102	102	102	29
175°	90	91	91	92	92	9
180°	90	90	90	90	90	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7597.8	7597.8	7597.8	7597.8	7597.8
2.5°	7660.0	7738.2	8046.4	8366.4	8444.2
5°	7674.0	8233.1	9604.4	10724.2	11138.0
7.5°	7690.3	9034.9	11534.8	12905.8	13344.7
10°	7721.3	10048.8	13207.5	14191.8	14357.6
12.5°	7759.7	11123.0	14127.9	14092.1	13882.9
15°	7823.6	12185.4	14241.3	13289.3	12976.8
17.5°	7890.7	13084.3	13746.7	12415.5	12143.4
20°	7999.8	13751.6	12977.5	11638.7	11329.6
22.5°	8157.2	14118.5	12170.8	10936.3	10734.6
25°	8360.2	14142.2	11369.6	10293.5	10039.4
27.5°	8632.2	13814.1	10601.7	9663.7	9395.3
30°	9002.3	13186.0	9888.2	8904.3	8571.3
32.5°	9505.0	12281.9	9152.5	7987.4	7614.1
35°	10126.7	11325.3	8283.0	6898.0	6494.6
37.5°	10805.0	10263.2	7227.7	5933.2	5698.3
40°	11534.8	9168.8	5976.9	5030.4	4862.3
42.5°	12104.3	7979.0	4815.1	4180.4	4001.5
45°	12394.6	6462.4	3815.5	3357.4	3216.4
47.5°	12281.6	5016.4	3024.8	2667.7	2625.3
50°	11621.8	3704.1	2421.4	2197.6	2180.0
52.5°	10590.3	2760.9	2000.1	1861.7	1831.4
55°	9166.2	2191.4	1736.9	1609.8	1604.9
57.5°	7695.8	1861.7	1576.6	1478.2	1444.0
60°	6127.4	1660.0	1455.0	1343.9	1274.6
62.5°	4803.0	1518.9	1365.8	1214.9	1150.1
65°	3674.8	1387.3	1277.8	1093.4	1037.7
67.5°	2739.4	1261.8	1170.3	965.7	933.1
70°	1995.9	1133.2	1047.8	858.8	833.1
72.5°	1422.5	1004.8	925.3	758.5	730.1
75°	978.4	862.7	791.4	652.9	626.5
77.5°	660.1	717.7	659.4	557.5	546.4
80°	440.8	569.2	533.3	472.4	465.6
82.5°	267.5	413.1	420.9	384.1	365.6
85°	145.6	267.5	315.4	287.4	260.6
87.5°	57.0	148.2	217.3	195.2	183.8
90°	5.0	34.0	47.0	62.0	69.0
92.5°	17.0	45.0	72.0	102.0	115.0
95°	53.0	111.0	172.0	228.0	258.0
97.5°	269.0	291.0	313.0	379.0	412.0
100°	552.0	586.0	473.0	500.0	509.0
102.5°	853.0	848.0	618.0	554.0	546.0
105°	1003.0	992.0	844.0	601.0	552.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	808.0	820.0	804.0	781.0	749.0
115°	692.0	699.0	699.0	697.0	691.0
117.5°	592.0	593.0	597.0	596.0	597.0
120°	490.0	501.0	510.0	505.0	499.0
122.5°	411.0	423.0	429.0	427.0	421.0
125°	338.0	356.0	363.0	362.0	359.0
127.5°	286.0	299.0	309.0	310.0	309.0
130°	249.0	257.0	267.0	268.0	269.0
132.5°	221.0	228.0	235.0	239.0	238.0
135°	200.0	204.0	211.0	213.0	215.0
137.5°	183.0	186.0	192.0	195.0	195.0
140°	168.0	172.0	177.0	179.0	180.0
142.5°	155.0	159.0	163.0	165.0	165.0
145°	145.0	149.0	152.0	153.0	154.0
147.5°	136.0	140.0	142.0	144.0	144.0
150°	129.0	131.0	134.0	135.0	136.0
152.5°	122.0	124.0	127.0	128.0	128.0
155°	116.0	118.0	120.0	121.0	121.0
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°	1007.0	1011.0	933.0	729.0	607.0
110°	929.0	938.0	893.0	816.0	718.0



(END OF REPORT)