

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: P827127

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P827127
REPORT IS A COMBINATION OF REPORTS P826071 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-A-UNV-L840-CD-UPL12
Description: 24000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND AISLE LENS AND 1200 LUMEN UPLIGHT MODULE
Light Source: -
Ballast/Driver: -

Summary

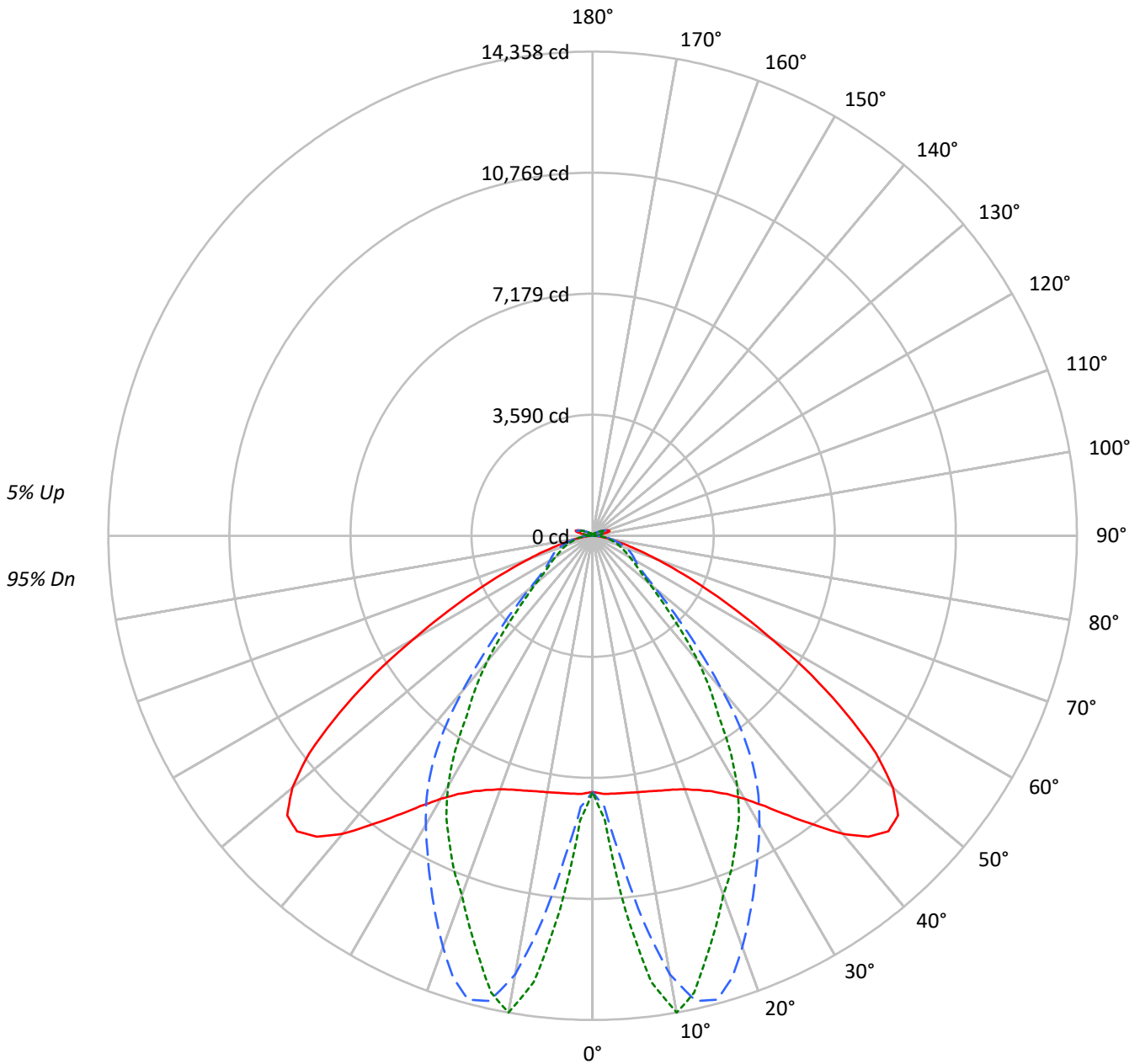
Lumens per Lamp: N/A
Luminaire Lumens: 25626.3 lumens
Efficiency: N/A
Efficacy: 181.2 lumens/watt
Spacing Criteria (0/90/45): 2.18 / 1.37 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')
CIE Type: Direct

Input Watts (W): 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

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				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	98	98	98	95
1	109	105	102	99	106	103	100	97	98	95	93	93	91	89	89	87	86	86	86	86	83
2	101	94	88	84	98	92	87	82	88	83	80	84	80	77	80	77	75	75	75	75	73
3	94	85	78	72	91	83	76	71	79	74	69	76	71	68	73	69	66	66	66	66	64
4	87	76	69	63	84	75	68	62	72	66	61	69	64	60	66	62	58	58	58	58	56
5	81	69	61	56	78	68	61	55	65	59	54	63	57	53	61	56	52	52	52	52	50
6	75	63	55	49	73	62	54	49	60	53	48	58	52	48	56	51	47	47	47	47	45
7	70	58	50	44	68	57	49	44	55	48	43	53	47	43	51	46	42	42	42	42	40
8	65	53	45	40	64	52	45	40	51	44	39	49	43	39	48	42	38	38	38	38	37
9	61	49	42	37	60	48	41	36	47	40	36	46	40	36	44	39	35	35	35	35	33
10	58	46	38	33	56	45	38	33	44	37	33	42	37	33	41	36	32	32	32	32	31

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	3.9
10°-20°	3500.9	13.7
20°-30°	5158.7	20.1
30°-40°	5421.0	21.2
40°-50°	4148.1	16.2
50°-60°	2504.8	9.8
60°-70°	1528.5	6.0
70°-80°	834.3	3.3
80°-90°	296.0	1.2
90°-100°	119.0	0.5
100°-110°	413.9	1.6
110°-120°	355.5	1.4
120°-130°	170.4	0.7
130°-140°	85.2	0.3
140°-150°	49.6	0.2
150°-160°	28.9	0.1
160°-170°	15.0	0.1
170°-180°	4.6	0.0
0°-30°	9651.5	37.7
0°-40°	15072.5	58.8
0°-60°	21725.4	84.8
0°-90°	24384.2	95.2
90°-120°	888.4	3.5
90°-150°	1193.7	4.7
90°-180°	1242.0	4.8
0°-180°	25626.3	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°	3	18	24	31	35	10
95°	25	58	86	116	134	82
105°	517	511	436	309	284	489
115°	360	360	361	358	352	360
125°	176	183	187	185	186	164
135°	102	105	109	110	110	81
145°	75	77	78	79	80	48
155°	60	61	62	63	63	28
165°	52	52	53	53	53	15
175°	47	47	47	47	47	5
180°	46	46	46	46	46	



TEST NUMBER: P827127

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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°	3.0	18.0	24.0	31.0	35.0
92.5°	9.0	23.0	38.0	54.0	59.0
95°	25.0	58.0	86.0	116.0	134.0
97.5°	135.0	147.0	166.0	196.0	206.0
100°	276.0	297.0	247.0	258.0	263.0
102.5°	439.0	433.0	316.0	286.0	281.0
105°	517.0	511.0	436.0	309.0	284.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	418.0	421.0	418.0	402.0	385.0
115°	360.0	360.0	361.0	358.0	352.0
117.5°	302.0	306.0	309.0	306.0	304.0
120°	253.0	259.0	261.0	257.0	257.0
122.5°	213.0	218.0	221.0	218.0	219.0
125°	176.0	183.0	187.0	185.0	186.0
127.5°	147.0	153.0	160.0	159.0	159.0
130°	128.0	132.0	137.0	138.0	138.0
132.5°	114.0	117.0	121.0	122.0	123.0
135°	102.0	105.0	109.0	110.0	110.0
137.5°	94.0	96.0	99.0	100.0	101.0
140°	86.0	89.0	91.0	92.0	92.0
142.5°	80.0	82.0	84.0	85.0	86.0
145°	75.0	77.0	78.0	79.0	80.0
147.5°	70.0	72.0	74.0	74.0	75.0
150°	67.0	68.0	69.0	70.0	70.0
152.5°	63.0	64.0	65.0	66.0	66.0
155°	60.0	61.0	62.0	63.0	63.0
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°	520.0	522.0	481.0	373.0	309.0
110°	476.0	483.0	461.0	420.0	369.0



(END OF REPORT)