

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: P827139

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P827139
REPORT IS A COMBINATION OF REPORTS P826075 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-NL-UNV-L840-CD-UPL12
Description: 24000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND NO LENS AND 1200 LUMEN UPLIGHT MODULE
Light Source: -
Ballast/Driver: -

Summary

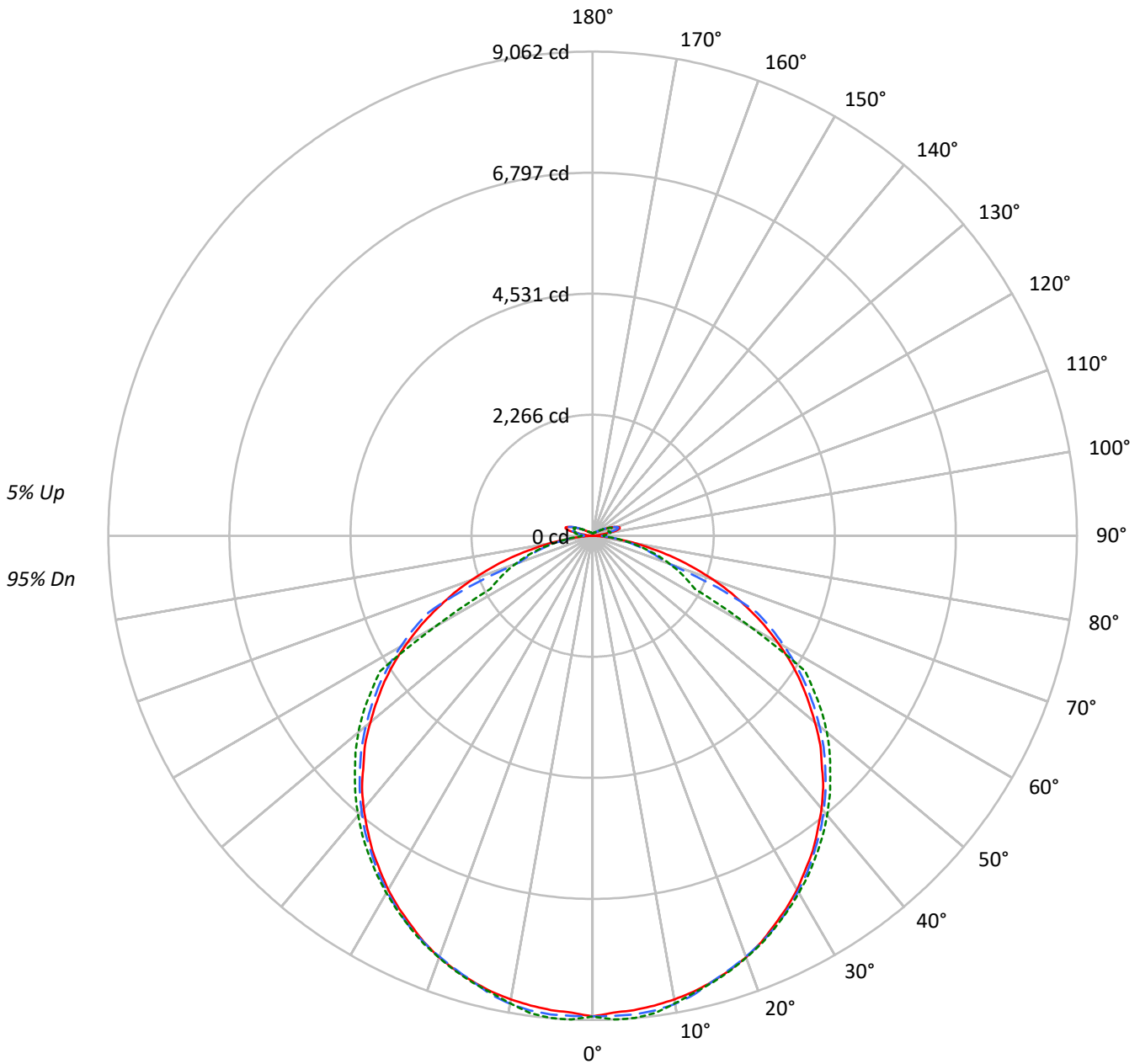
Lumens per Lamp: N/A
Luminaire Lumens: 26501.3 lumens
Efficiency: N/A
Efficacy: 187.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.1')
CIE Type: Direct

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: P827139

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

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	114	114	114	114	108	108	108	103	103	103	97	97	97	97	97	97	95
1	108	104	99	96	105	101	97	94	96	93	90	91	88	86	86	85	83	83	83	83	80
2	99	91	84	78	95	88	82	77	84	79	75	80	76	72	76	73	70	70	70	70	67
3	90	80	72	65	87	78	70	65	74	68	63	71	65	61	67	63	59	59	59	59	57
4	82	71	62	56	80	69	61	55	66	59	54	63	57	52	60	55	51	51	51	51	49
5	76	63	54	48	73	62	53	47	59	52	46	56	50	45	54	49	44	44	44	44	42
6	70	57	48	42	68	56	47	41	53	46	41	51	45	40	49	43	39	39	39	39	37
7	65	51	43	37	63	50	42	36	48	41	36	46	40	35	45	39	35	35	35	35	33
8	60	47	38	33	58	46	38	32	44	37	32	43	36	31	41	35	31	31	31	31	29
9	56	43	35	29	55	42	34	29	41	34	29	39	33	28	38	32	28	28	28	28	26
10	53	40	32	27	51	39	31	26	38	31	26	36	30	26	35	29	25	25	25	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14226	14226	14226
5°	14079	14204	14350
10°	14014	14141	14202
15°	13942	13930	14078
20°	13850	13817	14008
25°	13679	13733	13944
30°	13534	13585	13883
35°	13358	13409	13829
40°	13145	13244	13788
45°	12846	13010	13702
50°	12526	12747	13647
55°	12137	12411	13416
60°	11550	11914	10364
65°	10704	11273	6903
70°	9612	5804	6600
75°	8005	5257	6154
80°	5651	4414	5388
85°	2294	3565	4662



TEST NUMBER: P827139

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	854.6	3.2
10°-20°	2447.0	9.2
20°-30°	3723.3	14.0
30°-40°	4527.0	17.1
40°-50°	4759.9	18.0
50°-60°	4346.4	16.4
60°-70°	2786.3	10.5
70°-80°	1316.2	5.0
80°-90°	368.1	1.4
90°-100°	215.6	0.8
100°-110°	440.4	1.7
110°-120°	362.9	1.4
120°-130°	170.4	0.6
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°	7024.9	26.5
0°-40°	11551.9	43.6
0°-60°	20658.2	78.0
0°-90°	25128.7	94.8
90°-120°	1018.9	3.8
90°-150°	1324.1	5.0
90°-180°	1373.0	5.2
0°-180°	26501.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8996	8996	8996	8996	8996	
5°	8912	8947	8992	9041	9060	848
15°	8642	8707	8640	8653	8659	2440
25°	8042	8055	8083	8096	8089	3711
35°	7188	7146	7228	7316	7296	4492
45°	6063	6052	6154	6300	6288	4686
55°	4751	4715	4874	5037	5050	4237
65°	3201	3201	3387	1943	1949	3174
75°	1582	1612	1046	1102	1106	1667
85°	207	262	327	354	335	306
90°	3	106	169	203	204	11
95°	30	104	190	256	274	85
105°	525	528	461	334	308	497
115°	368	371	377	369	354	365
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: P827139

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8995.5	8995.5	8995.5	8995.5	8995.5
2.5°	8932.4	8962.4	8995.5	9038.2	9061.7
5°	8911.8	8946.6	8992.4	9041.3	9060.2
7.5°	8867.7	8916.5	8960.8	8995.5	9006.6
10°	8812.4	8870.9	8896.1	8892.9	8885.1
12.5°	8738.2	8799.8	8792.0	8755.6	8761.9
15°	8641.9	8706.6	8640.4	8653.0	8659.3
17.5°	8528.3	8591.5	8514.1	8539.3	8541.0
20°	8395.8	8443.1	8383.1	8403.6	8403.6
22.5°	8236.3	8269.4	8244.2	8258.4	8261.6
25°	8042.2	8054.7	8083.1	8095.8	8089.4
27.5°	7856.0	7840.1	7895.4	7925.3	7909.5
30°	7649.1	7623.9	7688.5	7737.5	7718.6
32.5°	7412.3	7396.6	7470.8	7529.1	7518.1
35°	7188.2	7145.6	7227.6	7316.0	7295.5
37.5°	6923.0	6897.8	6990.8	7084.1	7073.1
40°	6664.1	6621.5	6727.3	6837.8	6826.7
42.5°	6386.4	6335.8	6451.1	6583.8	6571.1
45°	6062.7	6051.7	6154.3	6299.5	6288.5
47.5°	5775.6	5720.3	5863.8	6004.4	6017.1
50°	5428.2	5407.8	5538.8	5709.3	5721.8
52.5°	5088.9	5074.7	5211.9	5384.1	5406.1
55°	4751.0	4714.8	4874.2	5036.8	5049.5
57.5°	4389.7	4351.8	4514.4	4691.2	4717.9
60°	4002.9	3966.6	4144.9	4309.2	3426.8
62.5°	3616.2	3590.9	3777.3	2675.5	2156.3
65°	3201.1	3201.1	3387.2	1943.0	1949.4
67.5°	2812.8	2787.6	2525.6	1745.7	1745.7
70°	2396.1	2405.6	1455.2	1529.6	1531.1
72.5°	1977.8	2012.5	1256.5	1316.4	1319.5
75°	1581.6	1611.6	1046.5	1101.8	1106.5
77.5°	1161.8	893.4	841.2	884.0	885.5
80°	816.0	563.5	644.1	685.0	680.3
82.5°	476.6	394.6	471.9	502.0	500.3
85°	206.7	262.0	326.7	353.6	334.6
87.5°	66.2	162.6	203.5	219.4	217.7
90°	3.0	106.4	169.2	203.0	204.0
92.5°	9.0	92.4	164.3	211.9	218.4
95°	29.7	103.8	190.3	256.5	274.5
97.5°	138.2	180.1	240.2	306.5	319.6
100°	279.2	323.7	296.0	336.9	343.5
102.5°	446.9	455.1	345.9	336.5	333.1
105°	524.9	528.4	461.2	334.2	307.7



TEST NUMBER: P827139

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

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	427.5	433.7	435.4	414.7	386.5
115°	367.9	371.0	376.7	369.0	353.5
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°	527.9	537.7	503.1	387.2	313.7
110°	485.5	497.2	479.9	432.7	370.5



(END OF REPORT)