

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: P827143

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

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P827143
REPORT IS A COMBINATION OF REPORTS P826244 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-W-UNV-L840-CD-UPL24
Description: 24000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND WIDE LENS AND 2400 LUMEN UPLIGHT MODULE
Light Source: -
Ballast/Driver: -

Summary

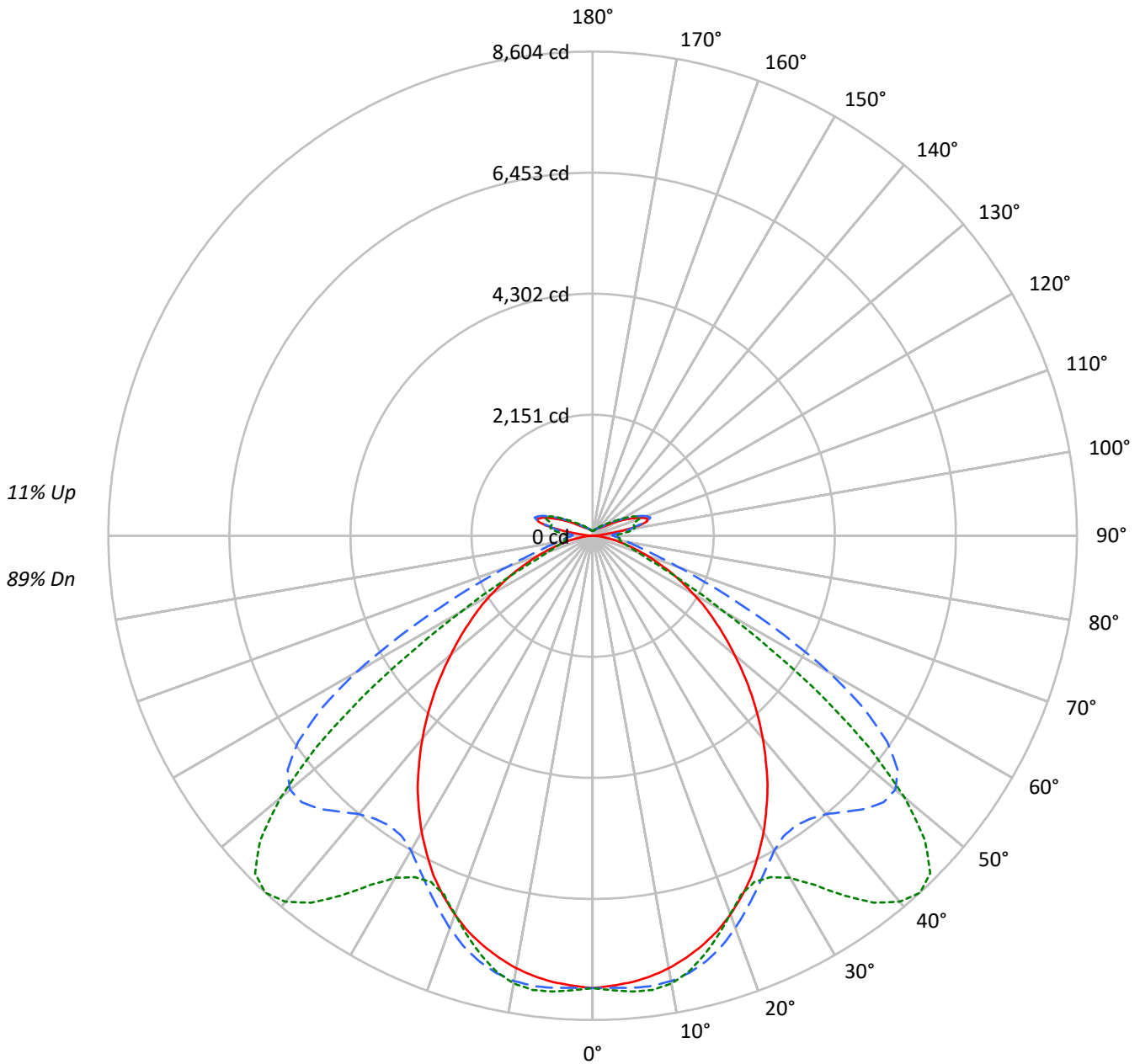
Lumens per Lamp: N/A
Luminaire Lumens: 26485.2 lumens
Efficiency: N/A
Efficacy: 176.1 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')
CIE Type: Semi-Direct

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

TEST NUMBER: P827143

CATALOG NUMBER: OHBL-24HE-W-UNV-L840-CD-UPL24

Luminous Intensity Polar Plot





TEST NUMBER: P827143

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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	105	105	105	98	98	98	92	92	92	89																			
1	107	102	98	94	103	99	95	92	93	90	87	87	84	82	82	80	78	75																			
2	97	89	83	77	94	87	81	76	81	76	72	76	72	69	72	69	66	63																			
3	89	79	71	64	85	76	69	63	72	66	61	67	62	58	64	59	56	53																			
4	81	70	61	55	78	67	60	54	64	57	52	60	54	50	57	52	48	46																			
5	74	62	53	47	72	60	52	46	57	50	44	54	48	43	51	46	42	39																			
6	69	56	47	41	66	54	46	40	51	44	39	48	42	38	46	41	36	34																			
7	63	50	42	36	61	49	41	35	46	39	34	44	38	33	42	36	32	30																			
8	59	46	37	31	57	44	37	31	42	35	30	40	34	29	38	33	29	27																			
9	55	42	34	28	53	41	33	28	39	32	27	37	31	26	35	30	26	24																			
10	51	38	31	25	50	37	30	25	36	29	24	34	28	24	32	27	23	21																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12711	12711	12711
5°	12539	12699	12856
10°	12330	12685	12871
15°	12037	12481	12458
20°	11657	12058	11848
25°	11167	11544	11610
30°	10536	11163	12494
35°	9825	11376	14620
40°	9012	12328	16902
45°	8167	13994	18168
50°	7293	15486	16907
55°	6469	15481	12918
60°	5634	13112	7898
65°	4759	9067	4784
70°	3784	5873	3454
75°	2787	4220	3203
80°	1895	3723	3613
85°	1147	4126	5712



TEST NUMBER: P827143

CATALOG NUMBER: OHBL-24HE-W-UNV-L840-CD-UPL24

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	768.1	2.9
10°-20°	2174.9	8.2
20°-30°	3182.6	12.0
30°-40°	4133.2	15.6
40°-50°	5047.2	19.1
50°-60°	4444.9	16.8
60°-70°	2316.2	8.7
70°-80°	993.3	3.8
80°-90°	483.2	1.8
90°-100°	455.9	1.7
100°-110°	944.2	3.6
110°-120°	772.8	2.9
120°-130°	376.0	1.4
130°-140°	188.2	0.7
140°-150°	106.9	0.4
150°-160°	59.8	0.2
160°-170°	29.0	0.1
170°-180°	8.8	0.0
0°-30°	6125.5	23.1
0°-40°	10258.8	38.7
0°-60°	19750.9	74.6
0°-90°	23543.6	88.9
90°-120°	2173.0	8.2
90°-150°	2844.0	10.7
90°-180°	2942.0	11.1
0°-180°	26485.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8037	8037	8037	8037	8037	
5°	7963	8023	8067	8138	8129	755
15°	7534	7746	7820	7762	7699	2121
25°	6676	7033	6914	6784	6790	3064
35°	5419	5991	6291	7337	7807	3377
45°	3990	5020	6862	8308	8481	3077
55°	2656	4398	6390	5603	4980	2384
65°	1524	3047	2925	1626	1399	1508
75°	614	1425	940	643	610	669
85°	130	508	479	468	473	145
90°	7	218	363	423	438	13
95°	56	218	423	523	562	167
105°	1010	1053	1007	797	751	959
115°	702	734	800	820	818	709
125°	350	373	422	438	437	327
135°	210	214	239	260	264	166
145°	159	159	164	176	180	100
155°	130	132	130	131	131	59
165°	100	101	102	102	102	29
175°	90	91	91	92	92	9
180°	90	90	90	90	90	



TEST NUMBER: P827143

CATALOG NUMBER: OHBL-24HE-W-UNV-L840-CD-UPL24

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8037.3	8037.3	8037.3	8037.3	<i>8037.3</i>
2.5°	8002.6	8037.3	8039.0	8087.6	<i>8082.4</i>
5°	7962.7	8023.4	8066.7	8137.8	<i>8129.2</i>
7.5°	7896.8	7992.2	8068.5	8146.5	<i>8139.6</i>
10°	7803.2	7933.2	8033.8	8098.0	<i>8077.2</i>
12.5°	7681.8	7853.5	7952.3	7966.2	<i>7926.3</i>
15°	7534.4	7746.0	7820.5	7761.6	<i>7699.1</i>
17.5°	7367.9	7615.9	7641.9	7513.6	<i>7435.6</i>
20°	7159.8	7442.5	7416.5	7239.6	<i>7152.9</i>
22.5°	6929.2	7251.8	7168.5	6983.0	<i>6899.7</i>
25°	6676.1	7033.3	6913.6	6783.6	<i>6790.5</i>
27.5°	6379.5	6785.3	6669.1	6728.1	<i>6839.0</i>
30°	6077.8	6525.2	6454.1	6797.4	<i>7015.9</i>
32.5°	5746.6	6258.1	6322.3	7000.3	<i>7357.5</i>
35°	5418.9	5991.1	6291.1	7336.7	<i>7806.6</i>
37.5°	5056.5	5720.6	6341.4	7725.1	<i>8217.6</i>
40°	4704.4	5457.0	6455.8	8073.7	<i>8489.9</i>
42.5°	<i>4345.5</i>	<i>5221.2</i>	<i>6648.3</i>	<i>8280.0</i>	<i>8604.3</i>
45°	3990.0	5020.0	6861.6	8307.8	<i>8481.2</i>
47.5°	3634.5	4850.1	7009.0	8087.6	<i>8007.8</i>
50°	3291.2	4699.2	7019.4	7558.7	<i>7232.7</i>
52.5°	2970.4	4560.5	6828.6	6715.9	<i>6209.6</i>
55°	2656.5	4397.5	6389.9	5602.7	<i>4980.2</i>
57.5°	2370.4	4172.1	5713.7	4406.2	<i>3726.4</i>
60°	2067.0	3866.9	4839.7	3223.6	<i>2687.8</i>
62.5°	1787.8	3487.2	3860.0	2243.8	<i>1931.7</i>
65°	1524.2	3046.7	2925.3	1626.5	<i>1399.4</i>
67.5°	1245.0	2590.7	2158.9	1186.1	<i>1040.4</i>
70°	1026.6	2167.5	1607.5	922.5	<i>837.5</i>
72.5°	802.9	1765.3	1201.7	749.1	<i>702.3</i>
75°	613.8	1425.4	939.8	643.3	<i>610.4</i>
77.5°	452.6	1127.1	756.0	568.8	<i>537.6</i>
80°	317.3	887.8	632.9	508.1	<i>495.9</i>
82.5°	213.3	686.7	539.3	483.8	<i>485.5</i>
85°	130.1	508.1	478.6	468.2	<i>473.4</i>
87.5°	62.4	360.7	411.0	426.6	<i>431.8</i>
90°	6.7	217.8	362.6	422.7	<i>438.4</i>
92.5°	17.0	185.5	349.4	424.5	<i>446.2</i>
95°	56.5	218.5	423.4	522.8	<i>561.5</i>
97.5°	272.5	379.4	538.4	649.5	<i>687.7</i>
100°	557.2	662.3	674.1	744.5	<i>758.7</i>
102.5°	858.2	915.6	798.3	772.5	<i>768.0</i>
105°	1009.9	1052.7	1007.0	796.9	<i>751.4</i>



TEST NUMBER: P827143

CATALOG NUMBER: OHBL-24HE-W-UNV-L840-CD-UPL24

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	818.4	861.6	918.4	919.7	891.2
115°	702.4	733.7	799.6	820.1	817.6
117.5°	604.1	624.2	685.4	705.2	708.0
120°	502.1	527.0	586.3	602.1	597.8
122.5°	423.1	443.8	496.6	513.7	509.4
125°	350.1	373.3	422.0	438.3	437.0
127.5°	296.4	311.1	359.3	377.6	378.4
130°	259.4	267.4	308.6	327.0	331.4
132.5°	231.4	238.4	269.7	291.0	293.5
135°	210.4	214.4	238.7	259.8	263.6
137.5°	193.4	196.4	214.5	234.9	238.4
140°	178.4	182.4	194.3	213.7	216.4
142.5°	167.1	169.4	178.6	194.5	196.2
145°	158.9	159.4	164.1	175.5	180.0
147.5°	149.9	152.1	154.1	163.1	164.8
150°	142.9	144.9	144.4	148.9	153.3
152.5°	135.9	137.9	137.4	138.4	141.9
155°	129.9	131.9	130.4	131.4	131.4
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°	1015.7	1064.8	1078.7	904.1	785.6
110°	937.7	984.8	1021.3	972.1	877.5



(END OF REPORT)