

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: P828036

Luminaire Tested: **OHBL-24HE-N-UNV-L935-CD-UPL12**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P828036
REPORT IS A COMBINATION OF REPORTS P826074 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-N-UNV-L935-CD-UPL12
Description:
Light Source: -
Ballast/Driver: -

Summary

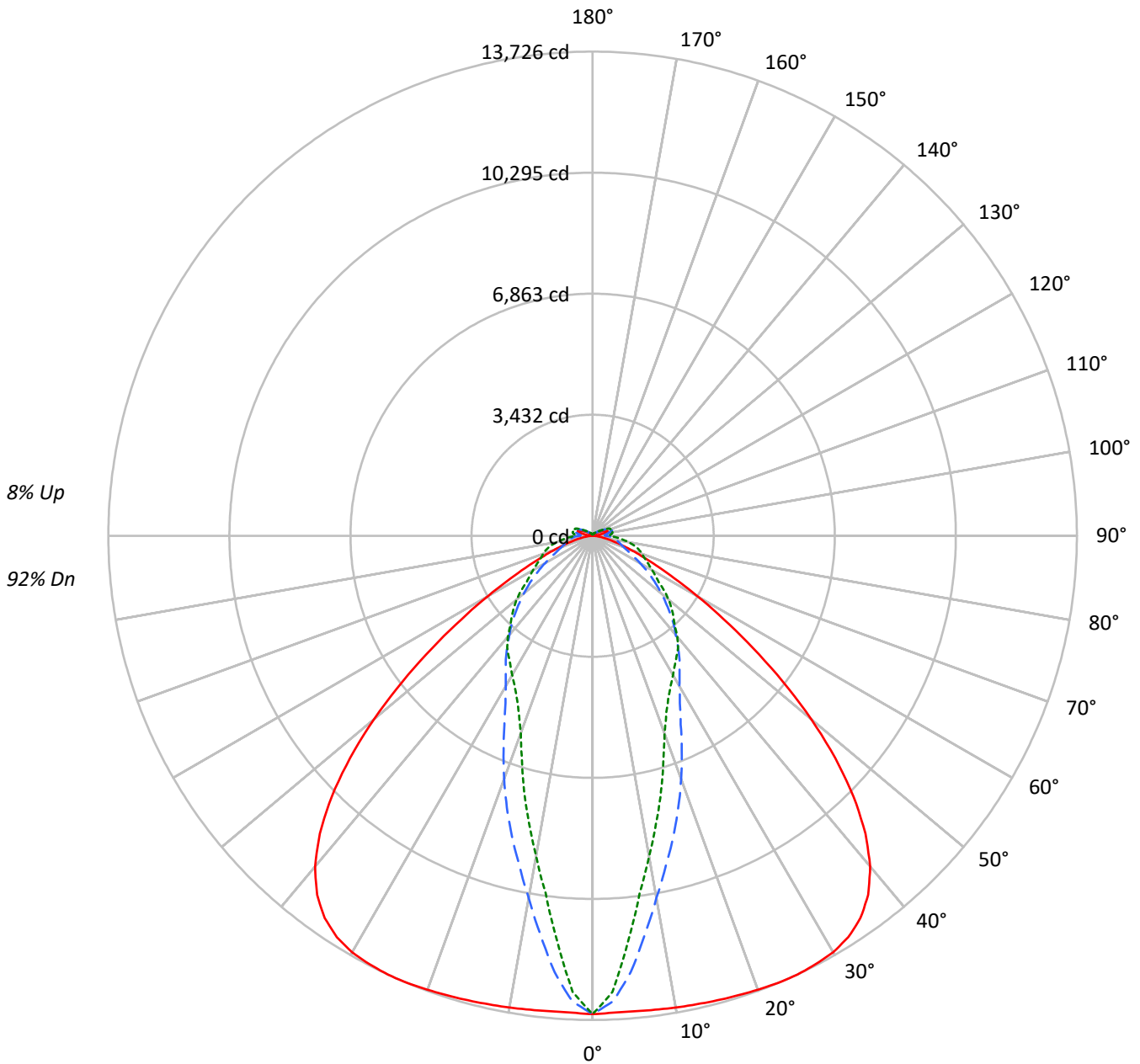
Lumens per Lamp: N/A
Luminaire Lumens: 21050.3 lumens
Efficiency: N/A
Efficacy: 148.9 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')
CIE Type: Direct

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: P828036

CATALOG NUMBER: OHBL-24HE-N-UNV-L935-CD-UPL12

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	107	107	107	100	100	100	95	95	95	92																			
1	108	103	99	96	104	100	97	93	94	92	89	89	87	85	84	83	81	78																			
2	99	92	85	80	96	89	83	79	84	80	76	80	76	73	76	73	70	67																			
3	91	82	74	68	88	80	73	67	76	70	65	72	67	63	68	64	61	59																			
4	84	74	66	59	82	72	64	59	68	62	57	65	60	55	62	58	54	52																			
5	78	67	58	52	76	65	57	52	62	55	50	59	54	49	57	52	48	46																			
6	73	61	52	47	70	59	52	46	57	50	45	54	49	44	52	47	43	41																			
7	68	56	48	42	66	54	47	41	52	46	41	50	44	40	48	43	39	37																			
8	64	51	43	38	62	50	43	38	48	42	37	46	41	36	45	39	36	34																			
9	60	47	40	35	58	46	39	34	45	38	34	43	37	33	42	36	33	31																			
10	56	44	37	32	55	43	36	32	42	35	31	40	35	31	39	34	30	28																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	21444	21444	21444
5°	21310	19537	18245
10°	21460	16464	14701
15°	21785	14088	12127
20°	22297	11917	9859
25°	22960	9869	8685
30°	23634	8507	8115
35°	23994	7757	7780
40°	23441	7011	7433
45°	21416	6340	6936
50°	17923	5606	6570
55°	13488	4915	5912
60°	9339	4220	5738
65°	6184	3640	5718
70°	4134	3423	6148
75°	2778	3541	6812
80°	1810	3940	7456
85°	944	4973	8891



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1141.4	5.4
10°-20°	2685.1	12.8
20°-30°	3365.8	16.0
30°-40°	3571.5	17.0
40°-50°	3229.2	15.3
50°-60°	2341.4	11.1
60°-70°	1469.3	7.0
70°-80°	972.4	4.6
80°-90°	562.8	2.7
90°-100°	370.5	1.8
100°-110°	532.3	2.5
110°-120°	411.9	2.0
120°-130°	198.0	0.9
130°-140°	96.8	0.5
140°-150°	55.4	0.3
150°-160°	30.2	0.1
160°-170°	12.5	0.1
170°-180°	3.8	0.0
0°-30°	7192.4	34.2
0°-40°	10763.9	51.1
0°-60°	16334.4	77.6
0°-90°	19338.9	91.9
90°-120°	1314.7	6.2
90°-150°	1664.8	7.9
90°-180°	1711.0	8.1
0°-180°	21050.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13560	13560	13560	13560	13560	
5°	13532	13185	12411	11835	11537	###
15°	13636	11114	8827	7850	7494	3867
25°	13726	8594	5911	5246	5080	6341
35°	13234	5713	4290	4156	4154	8227
45°	10462	3619	3109	3184	3238	7970
55°	5539	2243	2029	2200	2279	5005
65°	1981	1301	1174	1505	1672	2061
75°	612	701	788	1225	1298	682
85°	107	290	577	803	737	128
90°	2	136	354	497	504	9
95°	26	134	366	497	530	73
105°	441	483	578	541	528	418
115°	314	340	445	479	478	314
125°	162	173	229	247	247	150
135°	98	103	123	142	142	78
145°	78	81	84	96	95	49
155°	66	70	72	74	72	28
165°	43	43	44	44	44	12
175°	39	39	39	39	39	4
180°	38	38	38	38	38	



TEST NUMBER: P828036

CATALOG NUMBER: OHBL-24HE-N-UNV-L935-CD-UPL12

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13559.5	13559.5	13559.5	13559.5	13559.5
2.5°	13531.2	13453.8	13212.4	13065.2	12941.4
5°	13532.4	13185.2	12411.0	11835.4	11537.3
7.5°	13551.8	12780.1	11385.0	10544.8	10217.1
10°	13581.5	12278.1	10427.4	9531.8	9225.9
12.5°	13603.4	11712.8	9584.8	8664.6	8329.1
15°	13635.7	11114.0	8827.2	7850.2	7494.1
17.5°	13665.3	10550.0	8078.7	7057.9	6661.7
20°	13695.0	9942.2	7330.2	6278.4	5951.9
22.5°	13723.4	9300.8	6599.8	5673.2	5449.9
25°	13726.0	8593.6	5910.6	5246.0	5079.5
27.5°	13692.5	7860.6	5351.8	4888.5	4785.2
30°	13634.4	7149.5	4918.2	4630.4	4556.8
32.5°	13489.8	6424.3	4582.7	4381.3	4338.8
35°	13234.3	5713.2	4289.7	4155.5	4154.2
37.5°	12831.7	5082.1	3972.2	3949.0	3977.4
40°	12236.8	4529.8	3671.5	3733.5	3733.5
42.5°	11443.1	4049.7	3399.2	3462.5	3445.7
45°	10462.3	3618.7	3108.8	3183.8	3237.9
47.5°	9325.3	3239.2	2812.1	2956.6	3031.4
50°	8089.0	2877.8	2541.1	2725.6	2810.8
52.5°	6793.3	2543.6	2276.5	2488.2	2556.5
55°	5538.9	2242.9	2028.7	2200.3	2279.1
57.5°	4403.2	1956.4	1786.1	1948.7	2111.3
60°	3426.3	1709.9	1557.7	1789.9	1952.6
62.5°	2617.2	1490.6	1343.4	1641.6	1804.2
65°	1980.9	1300.8	1174.4	1504.8	1672.5
67.5°	1493.2	1136.9	1042.8	1405.4	1569.2
70°	1121.5	978.3	936.9	1343.4	1490.6
72.5°	828.5	832.4	853.0	1289.2	1401.5
75°	611.8	700.8	788.5	1224.7	1298.3
77.5°	437.5	580.8	730.4	1147.2	1173.1
80°	303.2	473.6	669.8	1045.3	1023.4
82.5°	189.7	379.4	615.6	933.1	872.4
85°	107.1	290.3	576.8	802.7	736.9
87.5°	47.8	216.8	504.6	625.9	584.6
90°	2.5	136.3	354.3	496.8	504.1
92.5°	10.1	119.8	340.1	476.0	493.1
95°	26.0	133.5	365.9	496.8	529.8
97.5°	118.9	197.3	414.5	535.0	558.8
100°	237.8	314.6	460.1	557.0	574.1
102.5°	374.8	422.8	496.9	549.3	555.5
105°	441.2	482.6	577.6	541.4	528.3



TEST NUMBER: P828036

CATALOG NUMBER: OHBL-24HE-N-UNV-L935-CD-UPL12

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	361.2	394.8	509.7	538.9	531.2
115°	314.2	340.0	445.3	479.0	477.9
117.5°	267.2	289.8	384.0	413.8	413.3
120°	226.3	246.8	325.9	349.7	349.7
122.5°	193.0	207.5	274.5	293.9	293.5
125°	162.2	173.2	229.4	247.1	246.7
127.5°	136.7	144.2	192.7	209.9	208.7
130°	120.8	126.8	161.9	180.8	180.8
132.5°	107.9	113.0	139.6	158.4	159.2
135°	97.9	103.0	123.1	142.0	142.0
137.5°	91.2	96.8	109.6	127.2	128.1
140°	84.6	89.7	99.1	115.4	115.4
142.5°	80.8	83.8	90.7	104.4	105.2
145°	78.0	80.9	84.3	95.5	95.1
147.5°	73.8	78.1	81.0	87.5	87.0
150°	71.3	76.0	76.8	81.6	80.2
152.5°	68.0	72.7	73.5	76.9	75.7
155°	65.5	70.2	72.3	74.4	71.8
157.5°	47.5	49.2	49.2	50.0	50.0
160°	45.8	46.7	47.5	47.5	47.5
162.5°	44.2	45.0	45.0	45.8	45.8
165°	43.3	43.3	44.2	44.2	44.2
167.5°	41.7	41.7	42.5	42.5	42.5
170°	40.8	40.8	40.8	41.7	41.7
172.5°	40.0	40.0	40.0	40.0	40.0
175°	39.2	39.2	39.2	39.2	39.2
177.5°	38.3	39.2	39.2	39.2	39.2
180°	38.3	38.3	38.3	38.3	38.3



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	443.7	487.9	597.0	565.1	520.8
110°	408.2	450.2	563.6	577.2	543.7



(END OF REPORT)