

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: P829196

Luminaire Tested: **OHB-24HE-N-UNV-L835-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829196
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHB-24HE-N-UNV-L835-CD
Description: 24000 LUMEN OHB HE LED LUMINAIRE WITH 80CRI, 3500K LEDS AND NARROW LENS
Light Source: -
Ballast/Driver: -

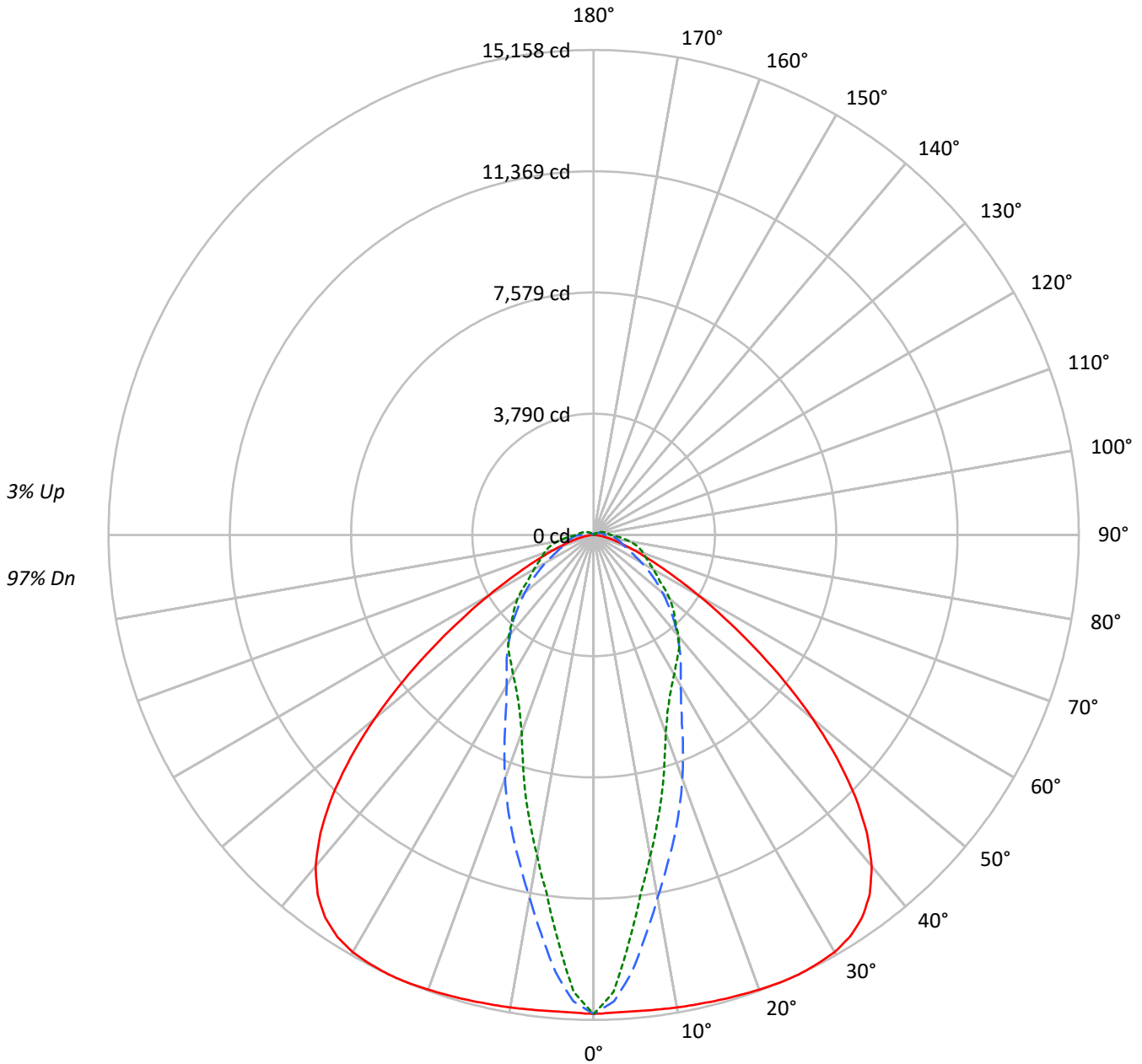
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22100.0 lumens
Efficiency: N/A
Efficacy: 170.0 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 1.93' x H: 0.17')
CIE Type: Direct

Input Watts (W): 130
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: P829196
CATALOG NUMBER: OHB-24HE-N-UNV-L835-CD

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	109	109	109	104	104	104	99	99	99	99	99	99	97					
1	109	104	100	97	106	102	98	95	97	94	91	92	90	88	88	86	85	85	85	85	82					
2	100	93	86	81	97	90	85	80	86	82	78	83	79	75	79	76	73	73	73	73	71					
3	92	83	75	69	90	81	74	69	78	72	67	74	70	65	72	67	64	64	64	64	62					
4	85	74	66	60	83	73	66	60	70	64	59	67	62	57	65	60	56	56	56	56	54					
5	79	67	59	53	77	66	59	53	64	57	52	62	56	51	59	54	50	50	50	50	48					
6	74	62	53	47	72	60	53	47	58	52	46	56	50	46	55	49	45	45	45	45	43					
7	69	56	48	43	67	55	48	42	54	47	42	52	46	41	50	45	41	41	41	41	39					
8	65	52	44	39	63	51	44	39	50	43	38	48	42	38	47	41	37	37	37	37	35					
9	61	48	41	35	59	47	40	35	46	40	35	45	39	35	44	38	34	34	34	34	32					
10	57	45	37	33	56	44	37	32	43	37	32	42	36	32	41	35	32	32	32	32	30					

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	46315	46315	46315
5°	46052	42089	39241
10°	46401	35378	31485
15°	47130	30192	25859
20°	48266	25472	20929
25°	49732	21036	18351
30°	51226	18078	17061
35°	52043	16432	16267
40°	50881	14801	15447
45°	46527	13332	14315
50°	38979	11734	13452
55°	29369	10233	11987
60°	20365	8729	11495
65°	13512	7467	11278
70°	9055	6945	11866
75°	6107	7070	12733
80°	4006	7672	13198
85°	2114	9245	14030



TEST NUMBER: P829196

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1260.5	5.7
10°-20°	2965.2	13.4
20°-30°	3716.9	16.8
30°-40°	3944.0	17.8
40°-50°	3566.0	16.1
50°-60°	2585.6	11.7
60°-70°	1622.6	7.3
70°-80°	1073.8	4.9
80°-90°	618.6	2.8
90°-100°	299.7	1.4
100°-110°	206.9	0.9
110°-120°	127.6	0.6
120°-130°	61.8	0.3
130°-140°	28.4	0.1
140°-150°	15.5	0.1
150°-160°	6.8	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	7942.6	35.9
0°-40°	11886.6	53.8
0°-60°	18038.3	81.6
0°-90°	21353.3	96.6
90°-120°	634.2	2.9
90°-150°	740.0	3.3
90°-180°	747.0	3.4
0°-180°	22100.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14974	14974	14974	14974	14974	
5°	14944	14561	13706	13070	12741	###
15°	15058	12273	9748	8669	8276	4270
25°	15158	9490	6527	5793	5609	7003
35°	14615	6309	4737	4589	4588	9085
45°	11554	3996	3433	3516	3576	8801
55°	6117	2477	2240	2430	2517	5527
65°	2188	1436	1297	1662	1847	2276
75°	676	774	871	1352	1434	753
85°	118	321	637	886	814	142
90°	0	134	369	520	524	8
95°	6	94	325	442	462	5
105°	11	63	237	314	322	11
115°	16	44	160	200	204	15
125°	17	23	81	103	101	15
135°	14	17	36	56	56	11
145°	17	18	21	33	31	10
155°	17	21	23	24	21	5
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CATALOG NUMBER: OHB-24HE-N-UNV-L835-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	14973.9	14973.9	14973.9	14973.9	14973.9
2.5°	14942.6	14857.1	14590.6	14428.1	14291.3
5°	14944.0	14560.6	13705.6	13069.9	12740.7
7.5°	14965.4	14113.1	12572.6	11644.8	11282.8
10°	14998.2	13558.8	11515.1	10526.1	10188.3
12.5°	15022.4	12934.6	10584.5	9568.4	9197.8
15°	15058.0	12273.3	9747.9	8669.1	8275.8
17.5°	15090.8	11650.5	8921.4	7794.1	7356.6
20°	15123.6	10979.3	8094.8	6933.3	6572.7
22.5°	15154.9	10271.0	7288.2	6264.9	6018.4
25°	15157.8	9490.0	6527.1	5793.2	5609.3
27.5°	15120.7	8680.5	5910.0	5398.4	5284.4
30°	15056.6	7895.3	5431.2	5113.4	5032.2
32.5°	14897.0	7094.3	5060.7	4838.3	4791.3
35°	14614.8	6309.1	4737.2	4588.9	4587.5
37.5°	14170.2	5612.2	4386.6	4360.9	4392.3
40°	13513.2	5002.2	4054.5	4122.9	4122.9
42.5°	12636.7	4472.1	3753.8	3823.6	3805.1
45°	11553.6	3996.1	3433.2	3515.8	3575.7
47.5°	10298.0	3577.1	3105.4	3265.0	3347.6
50°	8932.8	3178.1	2806.1	3009.9	3104.0
52.5°	7501.9	2808.9	2513.9	2747.7	2823.2
55°	6116.7	2476.9	2240.3	2429.9	2516.8
57.5°	4862.6	2160.5	1972.4	2152.0	2331.5
60°	3783.7	1888.3	1720.1	1976.7	2156.2
62.5°	2890.2	1646.0	1483.6	1812.8	1992.3
65°	2187.6	1436.5	1296.9	1661.7	1847.0
67.5°	1648.9	1255.5	1151.5	1552.0	1733.0
70°	1238.4	1080.3	1034.7	1483.6	1646.0
72.5°	914.9	919.2	942.0	1423.7	1547.7
75°	675.5	773.9	870.8	1352.5	1433.7
77.5°	483.1	641.3	806.6	1266.9	1295.5
80°	334.9	523.0	739.6	1154.4	1130.1
82.5°	209.5	419.0	679.8	1030.4	963.4
85°	118.3	320.7	637.0	886.4	813.8
87.5°	52.7	239.4	557.2	691.2	645.6
90°	0.0	134.0	369.1	520.2	524.5
92.5°	2.9	111.2	340.6	476.0	490.2
95°	5.7	94.1	324.9	441.8	461.7
97.5°	7.1	82.7	305.0	410.4	427.5
100°	8.6	74.1	280.8	377.7	391.9
102.5°	10.0	68.4	258.0	343.5	354.9
105°	11.4	62.7	236.6	313.5	322.1



TEST NUMBER: P829196

CATALOG NUMBER: OHB-24HE-N-UNV-L835-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	14.3	48.5	178.1	225.2	232.3
115°	15.7	44.2	159.6	199.5	203.8
117.5°	17.1	38.5	139.7	175.3	176.7
120°	17.1	34.2	119.7	149.6	149.6
122.5°	17.1	28.5	99.8	124.0	122.6
125°	17.1	22.8	81.2	102.6	101.2
127.5°	15.7	18.5	65.6	85.5	84.1
130°	15.7	18.5	52.7	72.7	72.7
132.5°	14.3	17.1	42.8	62.7	62.7
135°	14.3	17.1	35.6	55.6	55.6
137.5°	14.3	18.5	29.9	48.5	48.5
140°	14.3	17.1	25.7	42.8	42.8
142.5°	15.7	17.1	22.8	37.1	37.1
145°	17.1	18.5	21.4	32.8	31.4
147.5°	17.1	20.0	21.4	28.5	27.1
150°	17.1	21.4	21.4	25.7	24.2
152.5°	17.1	21.4	21.4	24.2	22.8
155°	17.1	21.4	22.8	24.2	21.4
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	11.4	58.4	216.6	280.8	290.7
110°	12.8	52.7	198.1	250.8	260.8



(END OF REPORT)