

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: P826383

Luminaire Tested: **OHB-24HE-A-UNV-L830-CD-UPL12**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P826383
REPORT IS A COMBINATION OF REPORTS P826035 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: OHB-24HE-A-UNV-L830-CD-UPL12
Description:
Light Source: -
Ballast/Driver: -

Summary

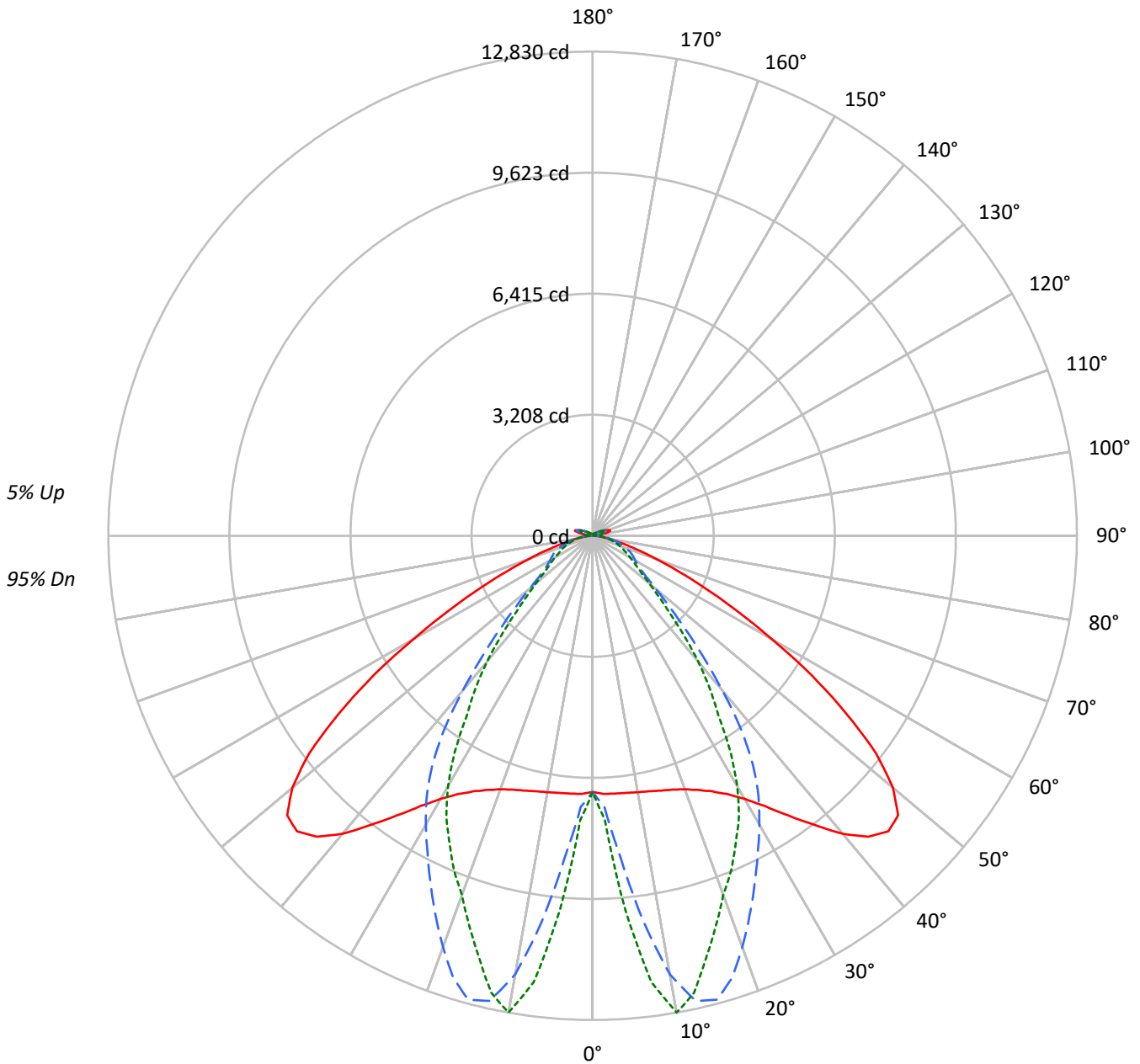
Lumens per Lamp: N/A
Luminaire Lumens: 22945.0 lumens
Efficiency: N/A
Efficacy: 165.8 lumens/watt
Spacing Criteria (0/90/45): 2.18 / 1.37 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 1.93' x L: 1.8' x H: 0.17')
CIE Type: Direct

Input Watts (W): 138.4
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: P826383

CATALOG NUMBER: OHB-24HE-A-UNV-L830-CD-UPL12

Luminous Intensity Polar Plot





TEST NUMBER: P826383

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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	97	97	97	95								
1	109	105	102	99	106	103	99	97	98	95	93	93	91	89	89	87	85	83								
2	101	94	88	84	98	92	87	82	88	83	80	84	80	77	80	77	75	72								
3	94	85	78	72	91	83	76	71	79	74	69	76	71	67	73	69	66	64								
4	87	76	69	63	84	75	68	62	72	66	61	69	64	60	66	62	58	56								
5	80	69	61	55	78	68	60	55	65	59	54	63	57	53	61	56	52	50								
6	75	63	55	49	73	62	54	49	60	53	48	58	52	47	56	51	47	45								
7	70	58	50	44	68	57	49	44	55	48	43	53	47	43	51	46	42	40								
8	65	53	45	40	64	52	45	40	51	44	39	49	43	39	48	42	38	37								
9	61	49	42	36	60	48	41	36	47	40	36	45	40	35	44	39	35	33								
10	58	45	38	33	56	45	38	33	44	37	33	42	37	33	41	36	32	31								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20999	20999	20999
5°	21120	26355	30670
10°	21322	36259	39692
15°	21844	39414	36293
20°	22762	36491	32309
25°	24440	32742	29433
30°	27272	29411	26058
35°	32087	25674	20666
40°	38617	19496	16360
45°	44341	13240	11574
50°	45005	9048	8500
55°	39010	7089	6886
60°	29189	6598	6130
65°	20051	6574	5727
70°	12858	6283	5443
75°	7765	5741	5061
80°	4600	4943	4978
85°	2243	4090	4163



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	886.3	3.9
10°-20°	3128.3	13.6
20°-30°	4609.7	20.1
30°-40°	4844.1	21.1
40°-50°	3706.6	16.2
50°-60°	2238.2	9.8
60°-70°	1365.8	6.0
70°-80°	745.5	3.2
80°-90°	264.6	1.2
90°-100°	110.7	0.5
100°-110°	385.2	1.7
110°-120°	330.9	1.4
120°-130°	158.6	0.7
130°-140°	79.3	0.3
140°-150°	46.1	0.2
150°-160°	26.9	0.1
160°-170°	14.0	0.1
170°-180°	4.2	0.0
0°-30°	8624.3	37.6
0°-40°	13468.4	58.7
0°-60°	19413.2	84.6
0°-90°	21789.1	95.0
90°-120°	826.7	3.6
90°-150°	1110.8	4.8
90°-180°	1156.0	5.0
0°-180°	22945.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6789	6789	6789	6789	6789	
5°	6857	7357	8582	9583	9953	656
15°	6991	10888	12726	11875	11596	1988
25°	7470	12637	10160	9198	8971	3491
35°	9049	10120	7402	6164	5803	5740
45°	11076	5775	3410	3000	2874	8368
55°	8191	1958	1552	1438	1434	7238
65°	3284	1240	1142	977	927	3365
75°	874	771	707	584	560	1006
85°	130	239	282	257	233	161
90°	3	17	22	29	33	9
95°	23	54	80	108	125	76
105°	481	476	406	288	264	455
115°	335	335	336	333	328	335
125°	164	170	174	172	173	153
135°	95	98	101	102	102	76
145°	70	72	73	74	74	44
155°	56	57	58	59	59	26
165°	48	48	49	49	49	14
175°	44	44	44	44	44	4
180°	43	43	43	43	43	



TEST NUMBER: P826383

CATALOG NUMBER: OHB-24HE-A-UNV-L830-CD-UPL12

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6789.1	6789.1	6789.1	6789.1	6789.1
2.5°	6844.8	6914.7	7190.0	7475.9	7545.5
5°	6857.3	7356.9	8582.2	9582.9	9952.6
7.5°	6871.9	8073.3	10307.2	11532.3	11924.4
10°	6899.5	8979.3	11801.9	12681.3	12829.6
12.5°	6933.8	9939.2	12624.3	12592.3	12405.3
15°	6990.9	10888.5	12725.6	11874.9	11595.7
17.5°	7050.9	11691.8	12283.7	11094.1	10851.0
20°	7148.4	12288.1	11596.3	10400.1	10123.8
22.5°	7289.0	12615.8	10875.5	9772.4	9592.2
25°	7470.4	12637.1	10159.6	9198.0	8970.9
27.5°	7713.5	12343.9	9473.4	8635.2	8395.3
30°	8044.2	11782.6	8835.8	7956.6	7659.0
32.5°	8493.5	10974.8	8178.5	7137.4	6803.8
35°	9048.9	10120.0	7401.5	6163.8	5803.4
37.5°	9655.1	9170.9	6458.4	5301.7	5091.9
40°	10307.2	8193.0	5340.8	4495.0	4344.9
42.5°	10816.0	7129.8	4302.6	3735.5	3575.7
45°	11075.5	5774.6	3409.5	3000.1	2874.0
47.5°	10974.4	4482.6	2702.9	2383.8	2345.9
50°	10384.9	3309.9	2163.7	1963.7	1947.9
52.5°	9463.2	2467.0	1787.2	1663.6	1636.5
55°	8190.7	1958.2	1552.0	1438.5	1434.1
57.5°	6876.8	1663.6	1408.8	1320.8	1290.3
60°	5475.3	1483.3	1300.2	1200.9	1138.9
62.5°	4291.8	1357.2	1220.4	1085.6	1027.7
65°	3283.7	1239.6	1141.8	977.0	927.2
67.5°	2447.8	1127.6	1045.8	862.9	833.8
70°	1783.5	1012.5	936.2	767.4	744.4
72.5°	1271.0	897.8	826.8	677.7	652.4
75°	874.3	770.9	707.1	583.5	559.8
77.5°	589.8	641.3	589.2	498.1	488.3
80°	393.9	508.6	476.5	422.1	416.1
82.5°	239.1	369.2	376.1	343.3	326.6
85°	130.1	239.1	281.8	256.7	232.9
87.5°	50.9	132.4	194.2	174.4	164.2
90°	2.8	16.8	22.3	28.8	32.6
92.5°	8.4	21.4	35.4	50.2	54.9
95°	23.3	54.0	80.0	107.9	124.7
97.5°	125.6	136.8	154.5	182.4	191.7
100°	256.8	276.4	229.8	240.1	244.7
102.5°	408.5	402.9	294.1	266.1	261.5
105°	481.1	475.5	405.7	287.5	264.3



TEST NUMBER: P826383

CATALOG NUMBER: OHB-24HE-A-UNV-L830-CD-UPL12

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	389.0	391.8	389.0	374.1	358.3
115°	335.0	335.0	335.9	333.1	327.6
117.5°	281.0	284.8	287.5	284.8	282.9
120°	235.4	241.0	242.9	239.2	239.2
122.5°	198.2	202.9	205.7	202.9	203.8
125°	163.8	170.3	174.0	172.2	173.1
127.5°	136.8	142.4	148.9	148.0	148.0
130°	119.1	122.8	127.5	128.4	128.4
132.5°	106.1	108.9	112.6	113.5	114.5
135°	94.9	97.7	101.4	102.4	102.4
137.5°	87.5	89.3	92.1	93.1	94.0
140°	80.0	82.8	84.7	85.6	85.6
142.5°	74.4	76.3	78.2	79.1	80.0
145°	69.8	71.7	72.6	73.5	74.4
147.5°	65.1	67.0	68.9	68.9	69.8
150°	62.3	63.3	64.2	65.1	65.1
152.5°	58.6	59.6	60.5	61.4	61.4
155°	55.8	56.8	57.7	58.6	58.6
157.5°	53.0	54.9	54.9	55.8	55.8
160°	51.2	52.1	53.0	53.0	53.0
162.5°	49.3	50.2	50.2	51.2	51.2
165°	48.4	48.4	49.3	49.3	49.3
167.5°	46.5	46.5	47.5	47.5	47.5
170°	45.6	45.6	45.6	46.5	46.5
172.5°	44.7	44.7	44.7	44.7	44.7
175°	43.7	43.7	43.7	43.7	43.7
177.5°	42.8	43.7	43.7	43.7	43.7
180°	42.8	42.8	42.8	42.8	42.8



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	483.9	485.8	447.6	347.1	287.5
110°	442.9	449.5	429.0	390.8	343.4



(END OF REPORT)