

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: P826544

Luminaire Tested: **OHBL-24HE-W-UNV-L830-CD-UPL36**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P826544
REPORT IS A COMBINATION OF REPORTS P826304 AND G3-2310-221-2
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-24HE-W-UNV-L830-CD-UPL36
Description:
Light Source: -
Ballast/Driver: -

Summary

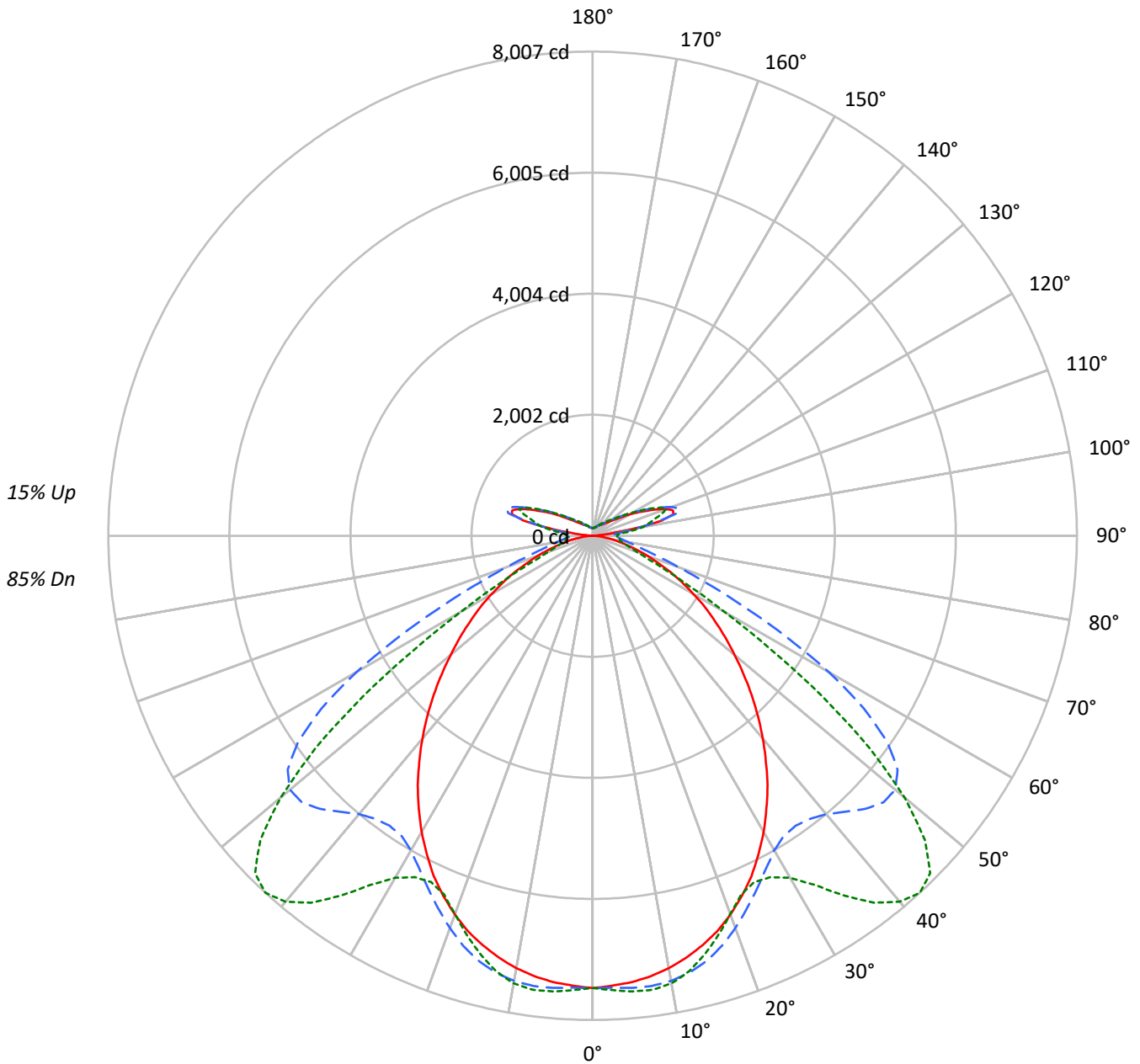
Lumens per Lamp: N/A
Luminaire Lumens: 25727.1 lumens
Efficiency: N/A
Efficacy: 159.0 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 161.8
Input Voltage (V): NR
Input Current (Ain): 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

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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	116	116	116	116	111	111	111	111	103	103	103	95	95	95	88	88	88	85			
1	106	101	97	94	102	98	94	91	91	88	85	84	82	80	78	77	75	72			
2	96	89	82	77	93	86	80	75	80	75	71	74	70	67	69	66	63	61			
3	88	78	70	64	84	75	68	62	70	64	59	66	61	57	61	57	54	51			
4	80	69	61	54	77	67	59	53	62	56	51	58	53	48	55	50	46	44			
5	74	61	53	46	71	59	51	45	56	49	44	52	46	42	49	44	40	38			
6	68	55	46	40	65	53	45	39	50	43	38	47	41	36	44	39	35	33			
7	63	50	41	35	60	48	40	35	45	38	33	43	37	32	40	35	31	29			
8	58	45	37	31	56	44	36	31	41	34	30	39	33	29	37	31	27	25			
9	54	41	33	28	52	40	33	27	38	31	26	36	30	26	34	29	25	23			
10	51	38	30	25	49	37	30	25	35	28	24	33	27	23	31	26	22	20			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11828	11828	11828
5°	11668	11817	11963
10°	11473	11804	11977
15°	11201	11614	11593
20°	10847	11220	11025
25°	10392	10742	10804
30°	9804	10388	11626
35°	9143	10586	13605
40°	8386	11472	15728
45°	7600	13022	16906
50°	6786	14411	15732
55°	6020	14406	12021
60°	5243	12202	7350
65°	4428	8438	4452
70°	3521	5465	3214
75°	2594	3927	2980
80°	1763	3464	3362
85°	1067	3840	5315



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	714.7	2.8
10°-20°	2023.9	7.9
20°-30°	2961.6	11.5
30°-40°	3846.2	15.0
40°-50°	4696.7	18.3
50°-60°	4136.2	16.1
60°-70°	2155.4	8.4
70°-80°	924.3	3.6
80°-90°	451.1	1.8
90°-100°	464.5	1.8
100°-110°	1289.2	5.0
110°-120°	1036.3	4.0
120°-130°	495.8	1.9
130°-140°	250.9	1.0
140°-150°	144.5	0.6
150°-160°	82.4	0.3
160°-170°	41.0	0.2
170°-180°	12.5	0.0
0°-30°	5700.2	22.2
0°-40°	9546.4	37.1
0°-60°	18379.3	71.4
0°-90°	21910.0	85.2
90°-120°	2790.0	10.8
90°-150°	3681.2	14.3
90°-180°	3817.0	14.8
0°-180°	25727.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7479	7479	7479	7479	7479	
5°	7410	7466	7506	7573	7565	703
15°	7011	7208	7277	7223	7164	1974
25°	6212	6545	6434	6312	6319	2851
35°	5043	5575	5854	6827	7264	3143
45°	3713	4671	6385	7731	7892	2863
55°	2472	4092	5946	5214	4634	2219
65°	1418	2835	2722	1514	1302	1403
75°	571	1326	874	599	568	623
85°	121	473	445	436	440	135
90°	9	217	352	403	412	14
95°	61	215	388	470	493	217
105°	1381	1428	1441	1142	1052	1313
115°	968	978	1046	1074	1068	979
125°	483	505	555	562	555	454
135°	289	295	319	340	342	228
145°	216	217	223	236	240	137
155°	177	180	179	181	181	81
165°	140	142	143	144	145	40
175°	128	128	129	129	130	12
180°	127	127	127	127	127	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7479.2	7479.2	7479.2	7479.2	7479.2
2.5°	7446.9	7479.2	7480.7	7526.0	7521.1
5°	7409.7	7466.2	7506.5	7572.7	7564.7
7.5°	7348.4	7437.2	7508.2	7580.8	7574.4
10°	7261.3	7382.3	7475.9	7535.6	7516.3
12.5°	7148.3	7308.1	7400.1	7413.0	7375.9
15°	7011.2	7208.1	7277.4	7222.6	7164.4
17.5°	6856.2	7087.0	7111.2	6991.8	6919.2
20°	6662.6	6925.7	6901.5	6736.8	6656.2
22.5°	6448.0	6748.2	6670.7	6498.1	6420.6
25°	6212.5	6544.9	6433.5	6312.5	6318.9
27.5°	5936.5	6314.1	6206.0	6260.9	6364.1
30°	5655.7	6072.1	6005.9	6325.4	6528.7
32.5°	5347.5	5823.5	5883.3	6514.2	6846.6
35°	5042.6	5575.1	5854.2	6827.2	7264.5
37.5°	4705.4	5323.3	5901.0	7188.6	7646.9
40°	4377.7	5078.0	6007.5	7513.0	7900.3
42.5°	4043.7	4858.6	6186.6	7705.0	8006.8
45°	3712.9	4671.4	6385.1	7730.9	7892.2
47.5°	3382.1	4513.3	6522.3	7526.0	7451.7
50°	3062.6	4372.9	6531.9	7033.8	6730.4
52.5°	2764.1	4243.8	6354.4	6249.5	5778.4
55°	2472.0	4092.1	5946.2	5213.6	4634.4
57.5°	2205.8	3882.4	5316.9	4100.2	3467.6
60°	1923.5	3598.4	4503.6	2999.7	2501.1
62.5°	1663.6	3245.0	3591.9	2088.0	1797.6
65°	1418.4	2835.1	2722.2	1513.5	1302.2
67.5°	1158.5	2410.8	2009.0	1103.7	968.2
70°	955.3	2017.0	1495.9	858.4	779.3
72.5°	747.1	1642.7	1118.2	697.1	653.5
75°	571.2	1326.4	874.5	598.6	568.0
77.5°	421.2	1048.8	703.5	529.3	500.3
80°	295.3	826.1	588.9	472.8	461.5
82.5°	198.5	639.0	501.8	450.2	451.8
85°	121.1	472.8	445.4	435.7	440.5
87.5°	58.1	335.7	382.5	397.0	401.8
90°	9.0	216.6	352.3	402.7	411.7
92.5°	23.3	186.6	329.8	389.4	403.1
95°	61.0	215.4	387.5	469.7	492.7
97.5°	351.3	456.3	534.5	639.8	666.9
100°	752.1	837.8	781.8	826.8	850.2
102.5°	1175.5	1249.4	1105.8	979.4	954.8
105°	1380.9	1428.1	1441.4	1141.7	1051.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1135.6	1167.5	1225.0	1243.9	1217.4
115°	968.2	977.7	1046.5	1074.0	1067.9
117.5°	831.1	839.5	900.2	915.9	907.3
120°	700.8	713.7	769.8	776.2	770.3
122.5°	582.6	603.7	653.8	662.3	651.8
125°	483.1	504.6	554.6	562.3	554.6
127.5°	414.5	421.6	470.2	481.7	483.3
130°	357.7	365.2	404.4	422.5	423.8
132.5°	318.6	326.1	358.0	376.9	382.9
135°	288.8	295.4	318.9	339.5	342.1
137.5°	264.6	270.2	287.1	307.9	312.1
140°	244.2	249.8	261.8	281.7	283.3
142.5°	229.0	233.0	242.5	258.2	259.8
145°	215.8	217.2	223.4	235.9	240.1
147.5°	204.6	206.7	211.3	218.8	221.3
150°	194.4	197.2	197.6	202.8	206.9
152.5°	185.1	187.9	188.3	189.3	193.5
155°	176.7	179.5	179.0	180.9	180.9
157.5°	156.3	159.1	161.9	162.8	162.8
160°	150.8	152.6	155.4	155.4	156.3
162.5°	145.2	147.0	148.9	149.8	150.8
165°	140.5	142.4	143.3	144.2	145.2
167.5°	136.8	137.7	138.7	139.6	139.6
170°	133.1	134.0	134.9	134.9	135.9
172.5°	130.3	131.2	132.1	132.1	132.1
175°	128.4	128.4	129.3	129.3	130.3
177.5°	126.6	127.5	127.5	127.5	128.4
180°	126.6	126.6	126.6	126.6	126.6



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	1395.6	1440.3	1492.3	1357.8	<i>1199.1</i>
110°	1288.5	1336.1	1390.5	1363.4	<i>1293.0</i>



(END OF REPORT)