

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: P826615

Luminaire Tested: **OHBL-48HE-NL-UNV-L830-CD-UPL24**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P826615
REPORT IS A COMBINATION OF REPORTS P826255 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-48HE-NL-UNV-L830-CD-UPL24
Description:
Light Source: -
Ballast/Driver: -

Summary

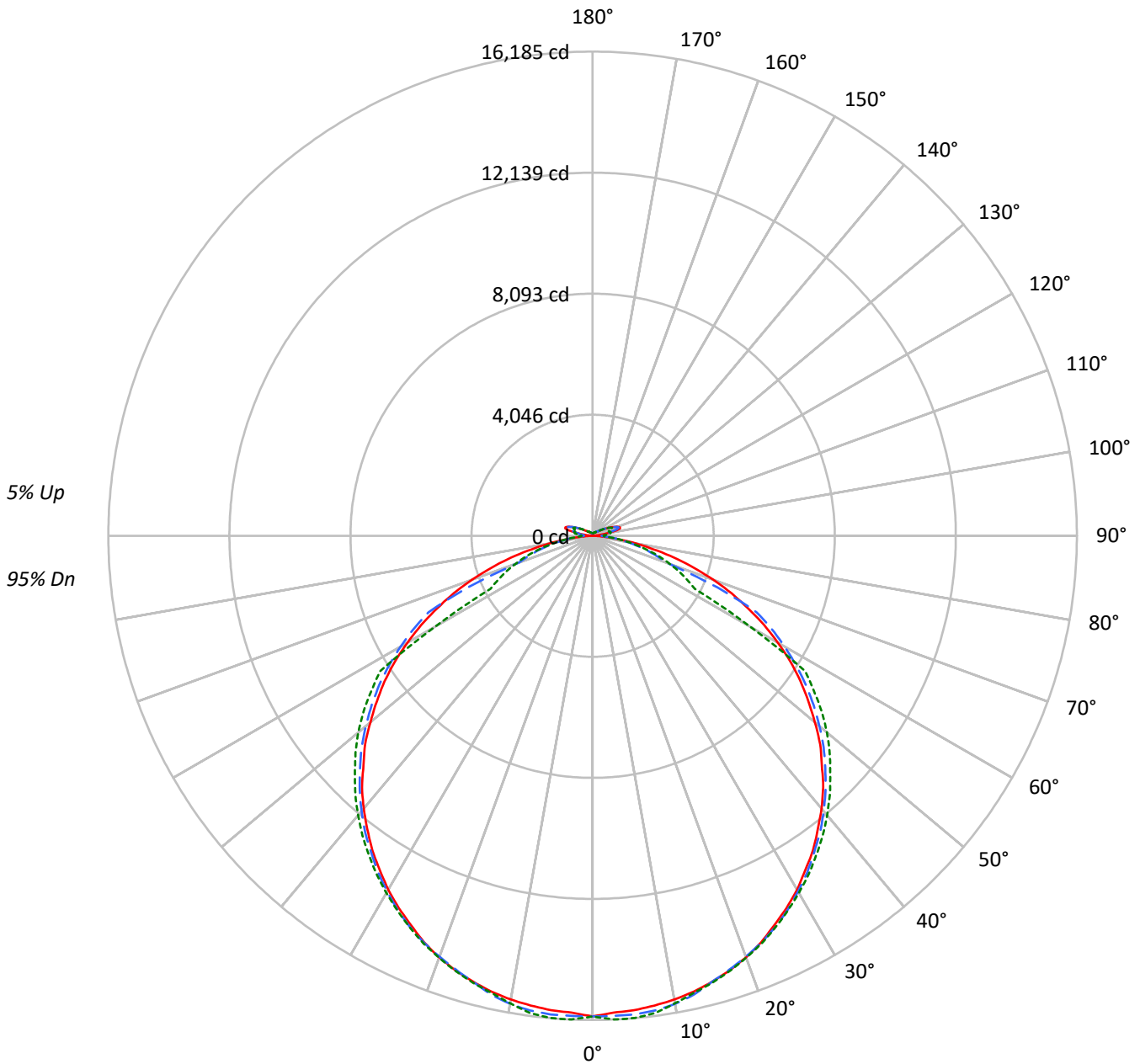
Lumens per Lamp: N/A
Luminaire Lumens: 47361.9 lumens
Efficiency: N/A
Efficacy: 167.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 283.4
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

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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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	95																			
1	108	104	99	96	105	101	97	94	96	93	90	91	88	86	86	84	83	80																			
2	99	91	84	78	95	88	82	77	84	79	75	80	76	72	76	73	70	67																			
3	90	80	72	65	87	78	70	65	74	68	63	71	65	61	67	63	59	57																			
4	82	71	62	56	80	69	61	55	66	59	54	63	57	52	60	55	51	49																			
5	76	63	54	48	73	62	53	47	59	52	46	56	50	45	54	49	44	42																			
6	70	57	48	42	68	56	47	41	53	46	40	51	45	40	49	43	39	37																			
7	65	51	43	37	63	50	42	36	48	41	36	46	40	35	45	39	35	33																			
8	60	47	38	33	58	46	38	32	44	37	32	43	36	31	41	35	31	29																			
9	56	43	35	29	55	42	34	29	41	34	29	39	33	28	38	32	28	26																			
10	53	40	32	27	51	39	31	26	38	31	26	36	30	26	35	29	25	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25409	25409	25409
5°	25147	25369	25631
10°	25031	25258	25366
15°	24901	24881	25144
20°	24737	24678	25020
25°	24432	24529	24905
30°	24173	24265	24797
35°	23859	23950	24700
40°	23478	23655	24626
45°	22944	23237	24473
50°	22372	22766	24375
55°	21677	22168	23962
60°	20629	21279	18511
65°	19117	20135	12330
70°	17168	10367	11788
75°	14296	9389	10991
80°	10093	7884	9623
85°	4097	6369	8327



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1526.4	3.2
10°-20°	4370.5	9.2
20°-30°	6650.1	14.0
30°-40°	8085.6	17.1
40°-50°	8501.7	18.0
50°-60°	7763.0	16.4
60°-70°	4976.5	10.5
70°-80°	2350.8	5.0
80°-90°	657.6	1.4
90°-100°	388.4	0.8
100°-110°	796.3	1.7
110°-120°	655.6	1.4
120°-130°	308.2	0.7
130°-140°	154.2	0.3
140°-150°	89.4	0.2
150°-160°	52.1	0.1
160°-170°	27.0	0.1
170°-180°	8.2	0.0
0°-30°	12547.1	26.5
0°-40°	20632.7	43.6
0°-60°	36897.4	77.9
0°-90°	44882.4	94.8
90°-120°	1840.3	3.9
90°-150°	2392.2	5.1
90°-180°	2480.0	5.2
0°-180°	47361.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16067	16067	16067	16067	16067	
5°	15917	15979	16061	16149	16182	###
15°	15435	15551	15433	15455	15466	4358
25°	14364	14386	14437	14460	14449	6628
35°	12839	12763	12909	13067	13030	8023
45°	10829	10809	10992	11252	11232	8370
55°	8486	8421	8706	8996	9019	7568
65°	5717	5717	6050	3470	3482	5668
75°	2825	2879	1869	1968	1976	2978
85°	369	468	584	632	598	546
90°	5	190	303	365	366	20
95°	58	185	346	463	491	158
105°	947	954	830	604	556	900
115°	658	670	679	668	646	659
125°	314	331	338	337	334	295
135°	186	190	196	198	200	147
145°	135	139	141	142	143	86
155°	108	110	112	113	113	51
165°	93	94	95	95	95	27
175°	84	85	85	86	86	8
180°	84	84	84	84	84	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	16066.9	16066.9	16066.9	16066.9	16066.9
2.5°	15954.1	16007.8	16066.9	16143.0	16185.1
5°	15917.3	15979.4	16061.2	16148.7	16182.4
7.5°	15838.5	15925.7	16004.8	16066.9	16086.6
10°	15739.8	15844.2	15889.3	15883.7	15869.6
12.5°	15607.2	15717.4	15703.3	15638.3	15649.6
15°	15435.3	15550.8	15432.6	15455.0	15466.3
17.5°	15232.4	15345.1	15207.0	15252.0	15255.1
20°	14995.6	15080.1	14972.9	15009.7	15009.7
22.5°	14710.9	14770.0	14724.9	14750.3	14755.9
25°	14364.1	14386.5	14437.2	14459.9	14448.6
27.5°	14031.6	14003.2	14102.0	14155.4	14127.0
30°	13662.0	13616.9	13732.5	13820.0	13786.2
32.5°	13239.1	13211.0	13343.5	13447.7	13428.0
35°	12838.8	12762.7	12909.2	13067.1	13030.5
37.5°	12365.1	12320.1	12486.3	12652.9	12633.1
40°	11902.8	11826.7	12015.6	12212.9	12193.2
42.5°	11406.8	11316.3	11522.2	11759.2	11736.5
45°	10828.6	10808.9	10992.1	11251.5	11231.8
47.5°	10315.8	10216.9	10473.4	10724.4	10747.1
50°	9695.3	9658.8	9892.8	10197.3	10219.6
52.5°	9089.3	9064.0	9309.0	9616.5	9655.8
55°	8485.8	8421.1	8705.8	8996.1	9018.9
57.5°	7840.5	7772.7	8063.2	8378.9	8426.6
60°	7149.5	7084.7	7403.2	7696.6	6120.6
62.5°	6458.8	6413.8	6746.5	4778.7	3851.3
65°	5717.4	5717.4	6049.9	3470.4	3481.8
67.5°	5024.0	4978.9	4511.0	3117.9	3117.9
70°	4279.6	4296.7	2599.1	2732.0	2734.7
72.5°	3532.5	3594.6	2244.3	2351.1	2356.8
75°	2824.8	2878.6	1869.1	1967.8	1976.2
77.5°	2075.0	1595.7	1502.6	1579.0	1581.7
80°	1457.4	1006.5	1150.4	1223.5	1215.1
82.5°	851.3	704.7	842.9	896.6	893.6
85°	369.2	468.0	583.6	631.6	597.6
87.5°	118.2	290.4	363.6	392.0	388.9
90°	4.7	189.6	303.1	364.9	366.0
92.5°	15.8	165.7	292.7	377.0	391.8
95°	57.7	185.1	346.4	463.2	491.1
97.5°	256.0	329.9	423.8	550.0	586.3
100°	519.3	593.0	527.6	606.2	617.5
102.5°	807.8	828.5	628.5	605.7	601.2
105°	947.4	954.2	830.4	604.3	556.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	768.9	785.8	779.2	749.5	699.7
115°	658.0	670.2	678.6	668.3	645.7
117.5°	550.9	551.8	555.5	554.6	555.5
120°	456.0	466.2	474.6	469.9	464.3
122.5°	382.5	393.6	399.2	397.3	391.8
125°	314.5	331.3	337.8	336.9	334.1
127.5°	266.1	278.2	287.5	288.5	287.5
130°	231.7	239.2	248.5	249.4	250.3
132.5°	205.7	212.2	218.7	222.4	221.5
135°	186.1	189.8	196.3	198.2	200.1
137.5°	170.3	173.1	178.7	181.5	181.5
140°	156.3	160.1	164.7	166.6	167.5
142.5°	144.2	148.0	151.7	153.5	153.5
145°	134.9	138.7	141.4	142.4	143.3
147.5°	126.6	130.3	132.1	134.0	134.0
150°	120.0	121.9	124.7	125.6	126.6
152.5°	113.5	115.4	118.2	119.1	119.1
155°	107.9	109.8	111.7	112.6	112.6
157.5°	103.3	105.2	107.0	107.9	107.9
160°	99.6	100.5	102.4	103.3	103.3
162.5°	95.8	96.8	97.7	98.6	98.6
165°	93.1	94.0	94.9	94.9	94.9
167.5°	90.3	90.3	91.2	92.1	92.1
170°	87.5	88.4	88.4	89.3	89.3
172.5°	85.6	86.5	86.5	86.5	87.5
175°	83.8	84.7	84.7	85.6	85.6
177.5°	83.8	83.8	83.8	83.8	83.8
180°	83.8	83.8	83.8	83.8	83.8



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	951.1	968.9	907.6	703.8	573.2
110°	881.5	898.3	864.7	782.0	670.8



(END OF REPORT)