

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: P827211

Luminaire Tested: **OHBL-48HE-A-UNV-L840-CD-UPL24**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P827211
REPORT IS A COMBINATION OF REPORTS P826251 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-A-UNV-L840-CD-UPL24
Description: 48000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND AISLE LENS AND 2400 LUMEN UPLIGHT MODULE
Light Source: -
Ballast/Driver: -

Summary

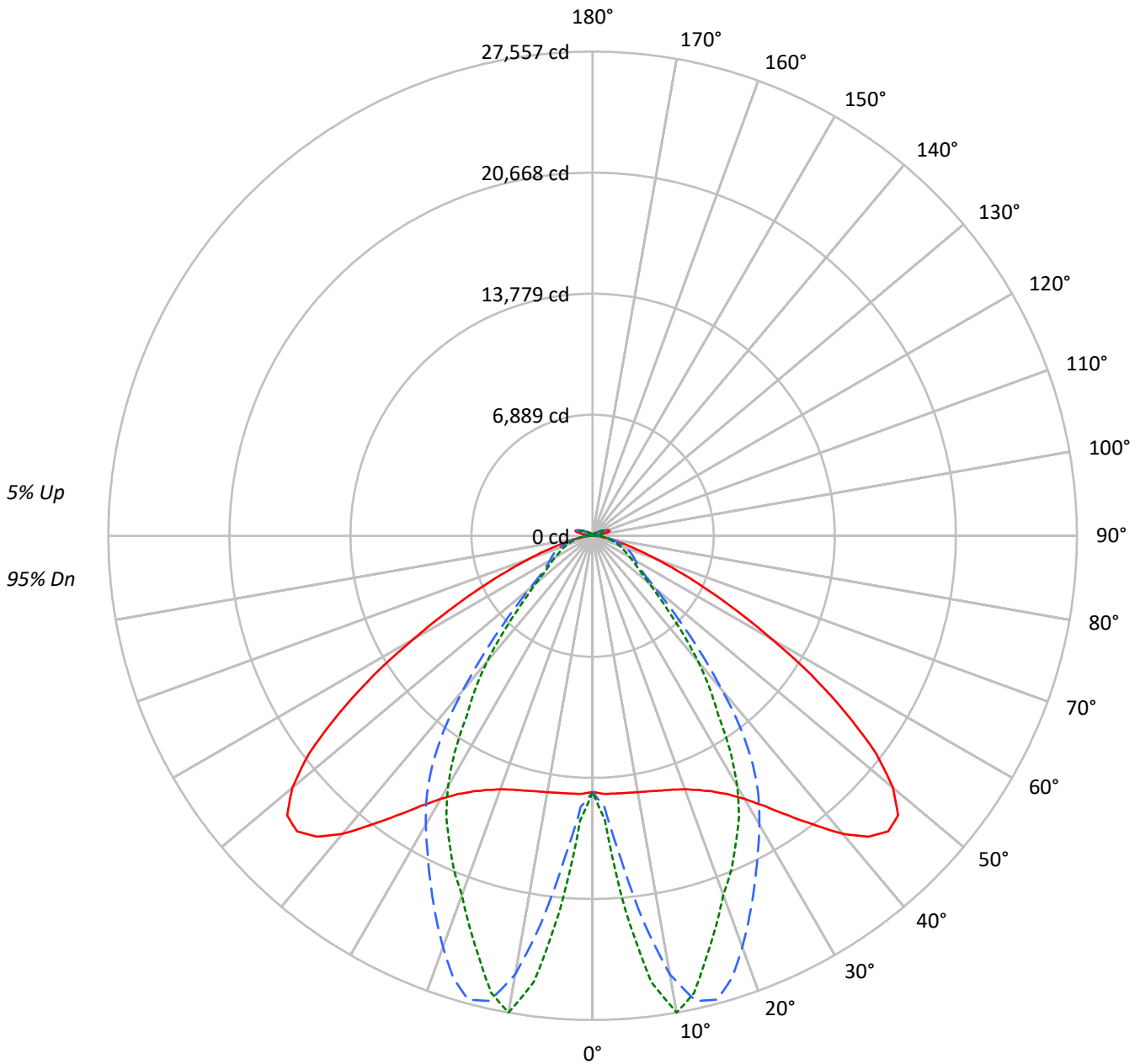
Lumens per Lamp: N/A
Luminaire Lumens: 49215.3 lumens
Efficiency: N/A
Efficacy: 173.7 lumens/watt
Spacing Criteria (0/90/45): 2.18 / 1.37 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')
CIE Type: Direct

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	115	115	115	115	108	108	108	103	103	103	98	98	98	95																			
1	109	105	102	99	106	103	100	97	98	95	93	93	91	89	89	87	86	83																			
2	101	94	88	84	98	92	87	82	88	83	80	84	80	77	80	77	75	73																			
3	94	85	78	72	91	83	76	71	79	74	69	76	71	68	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	48	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	37	60	48	41	36	47	40	36	46	40	35	44	39	35	33																			
10	58	46	38	33	56	45	38	33	44	37	33	42	37	33	41	36	32	31																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	23062	23062	23062
5°	23194	29019	33807
10°	23416	40026	43911
15°	23990	43622	40303
20°	24998	40495	36018
25°	26840	36436	32946
30°	29951	32826	29296
35°	35239	28747	23345
40°	42410	21906	18579
45°	48696	14935	13224
50°	49425	10253	9780
55°	42841	8077	7990
60°	32056	7566	7189
65°	22020	7602	6809
70°	14120	7347	6595
75°	8527	6821	6310
80°	5052	6022	6511
85°	2464	5218	6036



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1903.8	3.9
10°-20°	6719.3	13.7
20°-30°	9901.3	20.1
30°-40°	10404.7	21.1
40°-50°	7961.5	16.2
50°-60°	4807.5	9.8
60°-70°	2933.7	6.0
70°-80°	1601.2	3.3
80°-90°	568.2	1.2
90°-100°	231.8	0.5
100°-110°	804.9	1.6
110°-120°	690.5	1.4
120°-130°	331.2	0.7
130°-140°	165.7	0.3
140°-150°	96.1	0.2
150°-160°	56.0	0.1
160°-170°	29.0	0.1
170°-180°	8.8	0.0
0°-30°	18524.4	37.6
0°-40°	28929.1	58.8
0°-60°	41698.1	84.7
0°-90°	46801.2	95.1
90°-120°	1727.2	3.5
90°-150°	2320.3	4.7
90°-180°	2414.0	4.9
0°-180°	49215.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14583	14583	14583	14583	14583	
5°	14729	15802	18434	20583	21377	###
15°	15016	23388	27334	25506	24907	4270
25°	16046	27144	21822	19756	19269	7499
35°	19436	21737	15898	13239	12465	12330
45°	23789	12403	7323	6444	6173	17974
55°	17593	4206	3334	3090	3080	15546
65°	7053	2663	2452	2099	1992	7227
75°	1878	1656	1519	1253	1202	2161
85°	280	513	605	552	500	345
90°	5	34	47	62	69	19
95°	53	111	172	228	258	165
105°	1003	992	844	601	552	952
115°	692	699	699	697	691	698
125°	338	356	363	362	359	317
135°	200	204	211	213	215	158
145°	145	149	152	153	154	92
155°	116	118	120	121	121	54
165°	100	101	102	102	102	29
175°	90	91	91	92	92	9
180°	90	90	90	90	90	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	14582.6	14582.6	14582.6	14582.6	14582.6
2.5°	14702.0	14852.1	15443.7	16057.7	16207.2
5°	14728.9	15802.0	18434.0	20583.2	21377.4
7.5°	14760.2	17340.9	22139.0	24770.4	25612.7
10°	14819.6	19286.9	25349.4	27238.6	27556.8
12.5°	14893.4	21348.6	27116.0	27047.2	26645.7
15°	15015.9	23387.8	27333.6	25506.4	24906.7
17.5°	15144.8	25113.1	26384.4	23829.3	23307.1
20°	15354.2	26393.7	24908.0	22338.5	21745.1
22.5°	15656.3	27097.9	23359.7	20990.3	20603.2
25°	16045.9	27143.5	21822.0	19756.5	19268.8
27.5°	16568.0	26513.8	20348.1	18547.8	18032.5
30°	17278.4	25308.2	18978.6	17090.1	16451.1
32.5°	18243.2	23572.9	17566.6	15330.5	14613.9
35°	19436.4	21736.9	15897.7	13239.4	12465.2
37.5°	20738.3	19698.4	13872.2	11387.8	10936.9
40°	22139.0	17597.9	11471.6	9655.0	9332.4
42.5°	23232.1	15314.2	9241.7	8023.6	7680.2
45°	23789.3	12403.3	7323.2	6444.0	6173.2
47.5°	23572.3	9628.1	5805.5	5120.2	5038.9
50°	22306.0	7109.3	4647.4	4217.8	4184.1
52.5°	20326.2	5299.0	3838.9	3573.1	3515.0
55°	17592.9	4205.9	3333.6	3089.7	3080.4
57.5°	14770.8	3573.1	3026.0	2837.1	2771.4
60°	11760.5	3186.0	2792.7	2579.5	2446.3
62.5°	9218.6	2915.3	2621.4	2331.8	2207.4
65°	7053.0	2662.6	2452.5	2098.6	1991.7
67.5°	5257.7	2421.9	2246.2	1853.5	1790.9
70°	3830.7	2174.9	2011.0	1648.4	1599.0
72.5°	2730.2	1928.5	1775.9	1455.8	1401.4
75°	1877.9	1655.9	1518.9	1253.2	1202.5
77.5°	1266.9	1377.6	1265.7	1069.9	1048.7
80°	846.1	1092.4	1023.7	906.7	893.6
82.5°	513.4	792.9	807.9	737.3	701.6
85°	279.5	513.4	605.3	551.5	500.3
87.5°	109.4	284.5	417.1	374.6	352.7
90°	5.0	34.0	47.0	62.0	69.0
92.5°	17.0	45.0	72.0	102.0	115.0
95°	53.0	111.0	172.0	228.0	258.0
97.5°	269.0	291.0	313.0	379.0	412.0
100°	552.0	586.0	473.0	500.0	509.0
102.5°	853.0	848.0	618.0	554.0	546.0
105°	1003.0	992.0	844.0	601.0	552.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	808.0	820.0	804.0	781.0	749.0
115°	692.0	699.0	699.0	697.0	691.0
117.5°	592.0	593.0	597.0	596.0	597.0
120°	490.0	501.0	510.0	505.0	499.0
122.5°	411.0	423.0	429.0	427.0	421.0
125°	338.0	356.0	363.0	362.0	359.0
127.5°	286.0	299.0	309.0	310.0	309.0
130°	249.0	257.0	267.0	268.0	269.0
132.5°	221.0	228.0	235.0	239.0	238.0
135°	200.0	204.0	211.0	213.0	215.0
137.5°	183.0	186.0	192.0	195.0	195.0
140°	168.0	172.0	177.0	179.0	180.0
142.5°	155.0	159.0	163.0	165.0	165.0
145°	145.0	149.0	152.0	153.0	154.0
147.5°	136.0	140.0	142.0	144.0	144.0
150°	129.0	131.0	134.0	135.0	136.0
152.5°	122.0	124.0	127.0	128.0	128.0
155°	116.0	118.0	120.0	121.0	121.0
157.5°	111.0	113.0	115.0	116.0	116.0
160°	107.0	108.0	110.0	111.0	111.0
162.5°	103.0	104.0	105.0	106.0	106.0
165°	100.0	101.0	102.0	102.0	102.0
167.5°	97.0	97.0	98.0	99.0	99.0
170°	94.0	95.0	95.0	96.0	96.0
172.5°	92.0	93.0	93.0	93.0	94.0
175°	90.0	91.0	91.0	92.0	92.0
177.5°	90.0	90.0	90.0	90.0	90.0
180°	90.0	90.0	90.0	90.0	90.0



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	1007.0	1011.0	933.0	729.0	607.0
110°	929.0	938.0	893.0	816.0	718.0



(END OF REPORT)