

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: P827815

Luminaire Tested: **OHBL-48HE-NL-UNV-L930-CD-UPL24**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P827815
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-L930-CD-UPL24
Description:
Light Source: -
Ballast/Driver: -

Summary

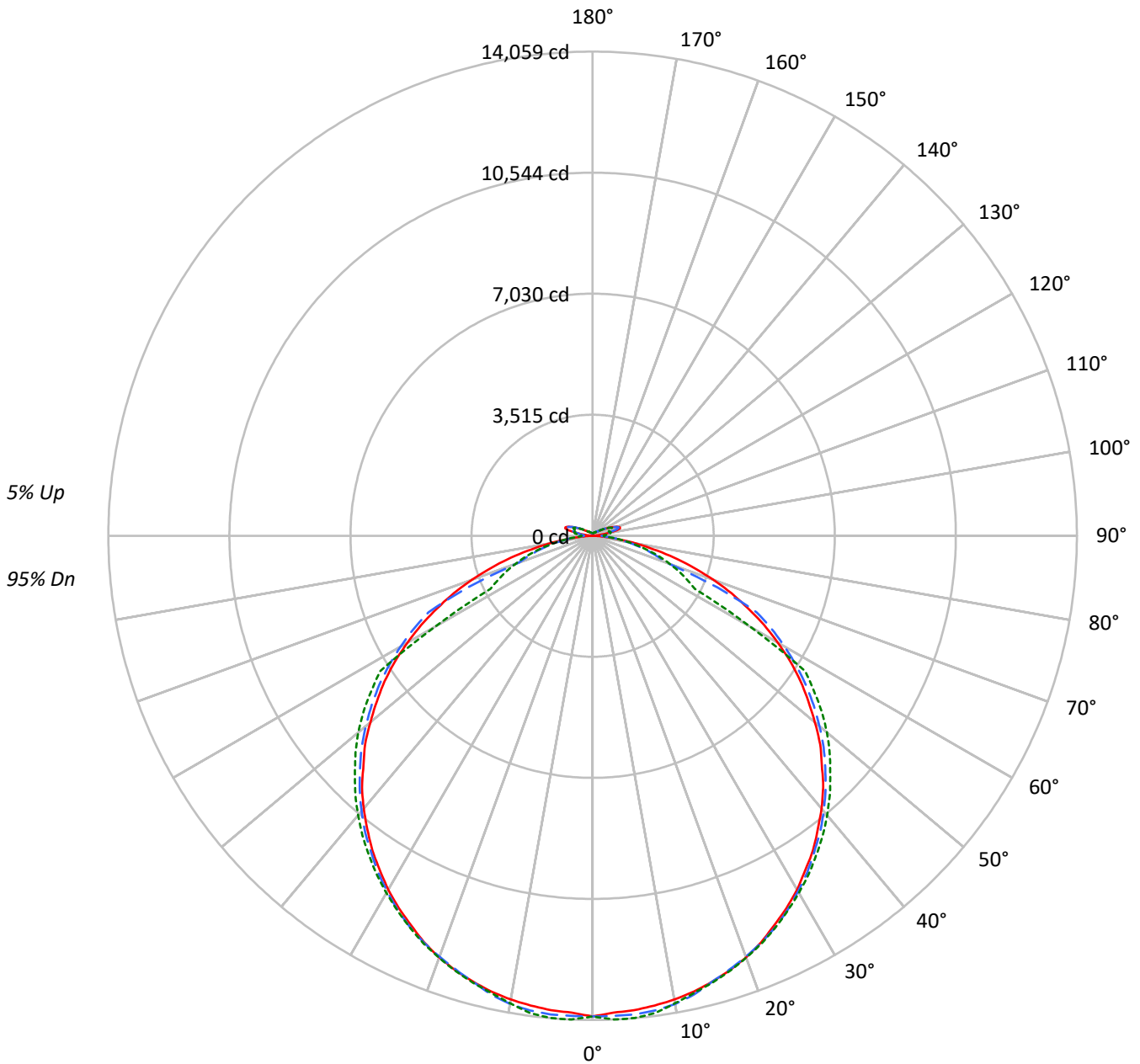
Lumens per Lamp: N/A
Luminaire Lumens: 41141.2 lumens
Efficiency: N/A
Efficacy: 145.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.1')
CIE Type: Direct

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°	22072	22072	22072
5°	21844	22037	22264
10°	21743	21941	22035
15°	21630	21613	21842
20°	21488	21437	21734
25°	21223	21307	21634
30°	20998	21078	21540
35°	20725	20805	21455
40°	20395	20548	21392
45°	19930	20185	21259
50°	19434	19776	21174
55°	18830	19257	20815
60°	17919	18484	16080
65°	16607	17491	10711
70°	14913	9005	10240
75°	12419	8156	9547
80°	8768	6849	8359
85°	3559	5532	7233



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1325.9	3.2
10°-20°	3796.5	9.2
20°-30°	5776.7	14.0
30°-40°	7023.6	17.1
40°-50°	7385.0	18.0
50°-60°	6743.4	16.4
60°-70°	4322.9	10.5
70°-80°	2042.1	5.0
80°-90°	571.2	1.4
90°-100°	337.4	0.8
100°-110°	691.7	1.7
110°-120°	569.5	1.4
120°-130°	267.8	0.7
130°-140°	134.0	0.3
140°-150°	77.7	0.2
150°-160°	45.3	0.1
160°-170°	23.5	0.1
170°-180°	7.1	0.0
0°-30°	10899.1	26.5
0°-40°	17922.8	43.6
0°-60°	32051.2	77.9
0°-90°	38987.4	94.8
90°-120°	1598.6	3.9
90°-150°	2078.0	5.1
90°-180°	2154.0	5.2
0°-180°	41141.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13957	13957	13957	13957	13957	
5°	13827	13881	13952	14028	14057	###
15°	13408	13508	13406	13425	13435	3785
25°	12477	12497	12541	12561	12551	5757
35°	11152	11086	11214	11351	11319	6970
45°	9406	9389	9548	9774	9757	7271
55°	7371	7315	7562	7815	7834	6574
65°	4966	4966	5255	3015	3024	4924
75°	2454	2500	1624	1709	1717	2587
85°	321	406	507	549	519	474
90°	4	165	263	317	318	17
95°	50	161	301	402	427	137
105°	823	829	721	525	483	782
115°	572	582	589	580	561	573
125°	273	288	293	293	290	256
135°	162	165	171	172	174	128
145°	117	120	123	124	124	75
155°	94	95	97	98	98	44
165°	81	82	82	82	82	23
175°	73	74	74	74	74	7
180°	73	73	73	73	73	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13956.6	13956.6	13956.6	13956.6	13956.6
2.5°	13858.6	13905.3	13956.6	14022.7	14059.3
5°	13826.7	13880.6	13951.7	14027.7	14056.9
7.5°	13758.2	13834.0	13902.7	13956.6	13973.7
10°	13672.5	13763.2	13802.4	13797.4	13785.2
12.5°	13557.3	13653.0	13640.8	13584.3	13594.1
15°	13408.0	13508.3	13405.6	13425.1	13434.9
17.5°	13231.7	13329.7	13209.6	13248.7	13251.4
20°	13026.0	13099.4	13006.3	13038.3	13038.3
22.5°	12778.7	12830.0	12790.9	12813.0	12817.8
25°	12477.4	12496.9	12541.0	12560.7	12550.8
27.5°	12188.6	12164.0	12249.8	12296.2	12271.6
30°	11867.6	11828.4	11928.8	12004.8	11975.5
32.5°	11500.2	11475.8	11590.9	11681.5	11664.3
35°	11152.5	11086.4	11213.7	11350.9	11319.0
37.5°	10741.1	10701.9	10846.3	10991.0	10973.9
40°	10339.5	10273.4	10437.4	10608.8	10591.7
42.5°	9908.6	9830.0	10008.9	10214.7	10195.0
45°	9406.3	9389.2	9548.4	9773.7	9756.6
47.5°	8960.9	8875.0	9097.8	9315.8	9335.5
50°	8421.9	8390.2	8593.5	8858.0	8877.4
52.5°	7895.5	7873.5	8086.3	8353.4	8387.6
55°	7371.3	7315.0	7562.4	7814.6	7834.3
57.5°	6810.7	6751.8	7004.1	7278.4	7319.9
60°	6210.4	6154.2	6430.9	6685.7	5316.7
62.5°	5610.5	5571.4	5860.4	4151.0	3345.4
65°	4966.5	4966.5	5255.3	3014.6	3024.5
67.5°	4364.1	4325.0	3918.5	2708.4	2708.4
70°	3717.5	3732.3	2257.8	2373.2	2375.5
72.5°	3068.5	3122.4	1949.5	2042.3	2047.3
75°	2453.8	2500.5	1623.6	1709.4	1716.7
77.5°	1802.5	1386.1	1305.2	1371.6	1373.9
80°	1266.0	874.3	999.3	1062.8	1055.5
82.5°	739.5	612.2	732.2	778.8	776.2
85°	320.7	406.5	506.9	548.6	519.1
87.5°	102.7	252.3	315.8	340.5	337.8
90°	4.0	164.7	263.3	316.9	317.9
92.5°	13.7	144.0	254.2	327.5	340.3
95°	50.1	160.8	300.9	402.4	426.6
97.5°	222.4	286.6	368.1	477.7	509.3
100°	451.1	515.2	458.3	526.5	536.4
102.5°	701.7	719.7	545.9	526.1	522.3
105°	823.0	828.9	721.4	524.9	483.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	667.9	682.6	676.9	651.0	607.8
115°	571.6	582.2	589.4	580.5	560.9
117.5°	478.5	479.3	482.6	481.8	482.6
120°	396.1	405.0	412.2	408.2	403.4
122.5°	332.2	341.9	346.8	345.2	340.3
125°	273.2	287.8	293.4	292.6	290.2
127.5°	231.2	241.7	249.8	250.6	249.8
130°	201.3	207.7	215.8	216.6	217.4
132.5°	178.6	184.3	190.0	193.2	192.4
135°	161.7	164.9	170.6	172.2	173.8
137.5°	147.9	150.4	155.2	157.6	157.6
140°	135.8	139.0	143.1	144.7	145.5
142.5°	125.3	128.5	131.8	133.4	133.4
145°	117.2	120.4	122.9	123.7	124.5
147.5°	109.9	113.2	114.8	116.4	116.4
150°	104.3	105.9	108.3	109.1	109.9
152.5°	98.6	100.2	102.7	103.5	103.5
155°	93.8	95.4	97.0	97.8	97.8
157.5°	89.7	91.3	93.0	93.8	93.8
160°	86.5	87.3	88.9	89.7	89.7
162.5°	83.3	84.1	84.9	85.7	85.7
165°	80.8	81.6	82.4	82.4	82.4
167.5°	78.4	78.4	79.2	80.0	80.0
170°	76.0	76.8	76.8	77.6	77.6
172.5°	74.4	75.2	75.2	75.2	76.0
175°	72.8	73.6	73.6	74.4	74.4
177.5°	72.8	72.8	72.8	72.8	72.8
180°	72.8	72.8	72.8	72.8	72.8



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	826.2	841.6	788.4	611.3	497.9
110°	765.7	780.3	751.1	679.3	582.7



(END OF REPORT)