

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: P827551

Luminaire Tested: **OHB-18HE-MCL-UNV-L930-CD-UPL18**

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P827551
REPORT IS A COMBINATION OF REPORTS P826132 AND G3-2310-221-8
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHB-18HE-MCL-UNV-L930-CD-UPL18
Description:
Light Source: -
Ballast/Driver: -

Summary

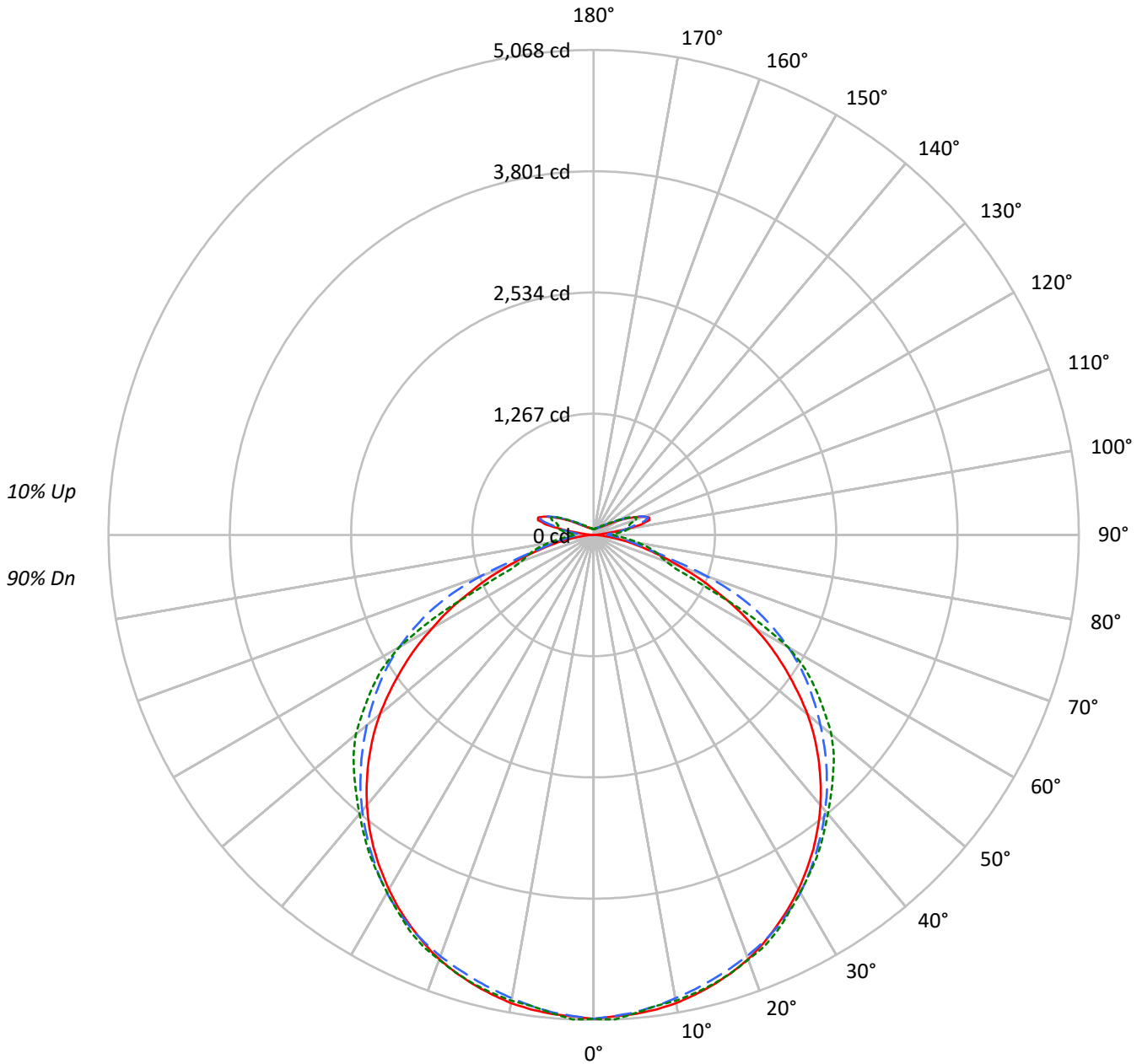
Lumens per Lamp: N/A
Luminaire Lumens: 15741.3 lumens
Efficiency: N/A
Efficacy: 134.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.93' x L: 1.67' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 117.3
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	117	117	117	117	113	113	113	113	105	105	105	99	99	99	93	93	93	90																			
1	107	102	98	94	103	99	95	92	93	90	87	87	85	83	82	80	79	76																			
2	97	89	83	77	94	87	81	76	81	77	72	77	73	69	72	69	66	64																			
3	89	79	71	64	85	76	69	63	72	66	61	68	63	59	64	60	56	54																			
4	81	70	61	55	78	68	60	54	64	57	52	60	55	50	57	52	48	46																			
5	75	62	53	47	72	60	52	46	57	50	45	54	48	43	51	46	42	40																			
6	69	56	47	41	66	54	46	40	52	44	39	49	43	38	47	41	37	35																			
7	64	51	42	36	62	49	41	36	47	40	35	45	38	34	42	37	33	31																			
8	59	46	38	32	57	45	37	32	43	36	31	41	35	30	39	33	29	27																			
9	55	42	34	29	53	41	34	28	39	33	28	38	31	27	36	30	26	25																			
10	52	39	31	26	50	38	31	26	36	30	25	35	29	25	33	28	24	22																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16894	16894	16894
5°	16702	16599	16693
10°	16560	16298	16517
15°	16374	16061	16416
20°	16186	15894	16280
25°	15905	15724	16145
30°	15603	15485	15851
35°	15255	15134	15693
40°	14828	14771	15475
45°	14268	14356	15387
50°	13542	13888	15281
55°	12458	13417	14728
60°	11081	12758	13637
65°	9338	11610	8659
70°	7340	8947	6294
75°	5305	5214	6412
80°	3474	4211	6160
85°	1738	3658	5843



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	476.9	3.0
10°-20°	1367.4	8.7
20°-30°	2088.5	13.3
30°-40°	2534.1	16.1
40°-50°	2656.0	16.9
50°-60°	2406.7	15.3
60°-70°	1613.6	10.3
70°-80°	724.6	4.6
80°-90°	266.6	1.7
90°-100°	217.6	1.4
100°-110°	518.0	3.3
110°-120°	431.7	2.7
120°-130°	208.6	1.3
130°-140°	106.2	0.7
140°-150°	62.3	0.4
150°-160°	37.1	0.2
160°-170°	19.7	0.1
170°-180°	6.0	0.0
0°-30°	3932.8	25.0
0°-40°	6466.9	41.1
0°-60°	11529.5	73.2
0°-90°	14134.2	89.8
90°-120°	1167.2	7.4
90°-150°	1544.3	9.8
90°-180°	1607.0	10.2
0°-180°	15741.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5057	5057	5057	5057	5057	
5°	5024	5042	5007	5022	5016	478
15°	4862	4842	4808	4850	4856	1373
25°	4516	4496	4528	4570	4556	2082
35°	4003	4012	4053	4097	4080	2502
45°	3322	3376	3439	3527	3538	2559
55°	2445	2562	2737	2847	2840	2182
65°	1435	1659	1884	1590	1298	1430
75°	564	819	602	616	657	617
85°	97	186	239	289	303	119
90°	4	82	151	191	203	8
95°	31	105	189	238	260	98
105°	602	610	548	407	382	572
115°	420	428	440	441	442	424
125°	207	218	231	232	231	195
135°	126	129	134	139	141	100
145°	94	96	99	100	101	60
155°	77	79	80	81	80	36
165°	68	69	69	70	70	19
175°	62	62	62	62	62	6
180°	61	61	61	61	61	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5057.4	5057.4	5057.4	5057.4	5057.4
2.5°	5037.0	5058.1	5031.9	5060.3	5067.7
5°	5024.5	5042.1	5007.0	5022.3	5015.7
7.5°	5001.9	5007.7	4966.0	4978.4	4965.3
10°	4968.2	4965.3	4916.3	4940.5	4943.4
12.5°	4918.5	4909.7	4865.8	4902.4	4903.1
15°	4861.5	4842.4	4808.0	4850.5	4856.3
17.5°	4795.6	4770.8	4748.1	4803.0	4794.1
20°	4718.9	4689.6	4685.2	4745.2	4723.3
22.5°	4623.8	4601.1	4611.4	4668.4	4654.5
25°	4516.3	4496.5	4528.0	4569.7	4556.5
27.5°	4402.9	4391.3	4427.1	4459.3	4433.6
30°	4278.7	4272.0	4319.6	4345.9	4313.8
32.5°	4143.4	4145.5	4190.9	4226.7	4196.7
35°	4002.9	4012.5	4053.4	4096.6	4080.5
37.5°	3848.6	3869.8	3910.8	3959.8	3943.0
40°	3685.6	3716.3	3761.7	3820.8	3805.5
42.5°	3509.4	3548.1	3606.6	3672.4	3671.0
45°	3322.2	3376.2	3439.1	3526.9	3537.8
47.5°	3127.6	3188.3	3268.0	3385.1	3401.9
50°	2916.3	2992.4	3091.8	3232.2	3242.5
52.5°	2680.8	2784.6	2916.3	3050.8	3038.4
55°	2444.6	2562.3	2737.1	2846.8	2840.2
57.5°	2209.2	2341.5	2553.6	2631.9	2631.1
60°	1945.9	2113.4	2345.1	2404.4	2345.9
62.5°	1702.4	1882.3	2122.8	2079.7	1879.4
65°	1434.7	1659.3	1883.7	1589.7	1298.0
67.5°	1197.1	1431.1	1600.0	1088.8	932.3
70°	958.0	1216.1	1247.5	808.0	797.1
72.5°	745.9	1020.8	860.7	691.8	726.9
75°	564.5	819.0	602.5	616.4	656.7
77.5°	411.7	628.9	468.8	540.4	573.4
80°	283.0	445.3	382.4	454.1	476.8
82.5°	177.7	294.0	306.4	365.6	389.1
85°	97.2	186.5	239.1	288.8	302.7
87.5°	40.3	112.6	182.8	223.0	234.7
90°	4.0	82.4	151.1	191.4	202.7
92.5°	11.2	74.2	145.3	186.5	198.0
95°	31.4	105.0	189.1	238.1	260.4
97.5°	159.1	202.9	263.4	313.5	329.4
100°	327.1	366.7	345.4	371.6	378.6
102.5°	511.4	528.1	416.7	391.4	388.7
105°	601.9	610.1	547.7	406.9	381.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	491.7	500.1	505.0	498.7	479.9
115°	420.5	428.3	439.9	440.9	441.6
117.5°	359.1	362.9	375.6	378.3	380.6
120°	300.9	307.2	320.0	321.2	320.3
122.5°	252.4	259.6	271.8	273.0	272.1
125°	207.2	217.6	230.6	232.0	231.1
127.5°	177.2	184.5	197.6	199.0	198.1
130°	154.6	160.9	169.5	173.2	174.0
132.5°	139.9	143.1	150.2	153.9	155.5
135°	126.2	129.3	134.2	139.4	141.0
137.5°	116.4	118.8	122.1	127.4	128.9
140°	107.5	109.9	111.6	116.2	117.8
142.5°	99.5	102.7	104.4	107.4	109.0
145°	93.8	96.2	98.6	100.2	101.0
147.5°	88.9	90.5	92.2	93.8	94.6
150°	84.1	85.7	87.3	88.1	88.9
152.5°	80.8	81.6	83.3	84.1	84.1
155°	76.8	79.2	80.0	80.8	80.0
157.5°	74.4	76.0	76.8	77.6	77.6
160°	71.9	72.8	73.6	74.4	74.4
162.5°	70.3	70.3	71.1	71.9	71.9
165°	67.9	68.7	68.7	69.5	69.5
167.5°	66.3	67.0	67.1	67.1	67.9
170°	64.7	64.7	65.5	64.7	64.7
172.5°	63.0	63.9	63.9	63.0	63.0
175°	62.2	62.2	62.2	61.5	61.5
177.5°	62.2	62.2	61.4	60.7	60.0
180°	61.4	61.4	61.4	61.4	61.4



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	608.3	618.5	593.6	476.4	407.6
110°	558.1	571.9	565.9	524.0	469.6



(END OF REPORT)