

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: P828113

Luminaire Tested: **OHBL-48HE-MFL-UNV-L935-CD-UPL24**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P828113
REPORT IS A COMBINATION OF REPORTS P826253 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-MFL-UNV-L935-CD-UPL24
Description:
Light Source: -
Ballast/Driver: -

Summary

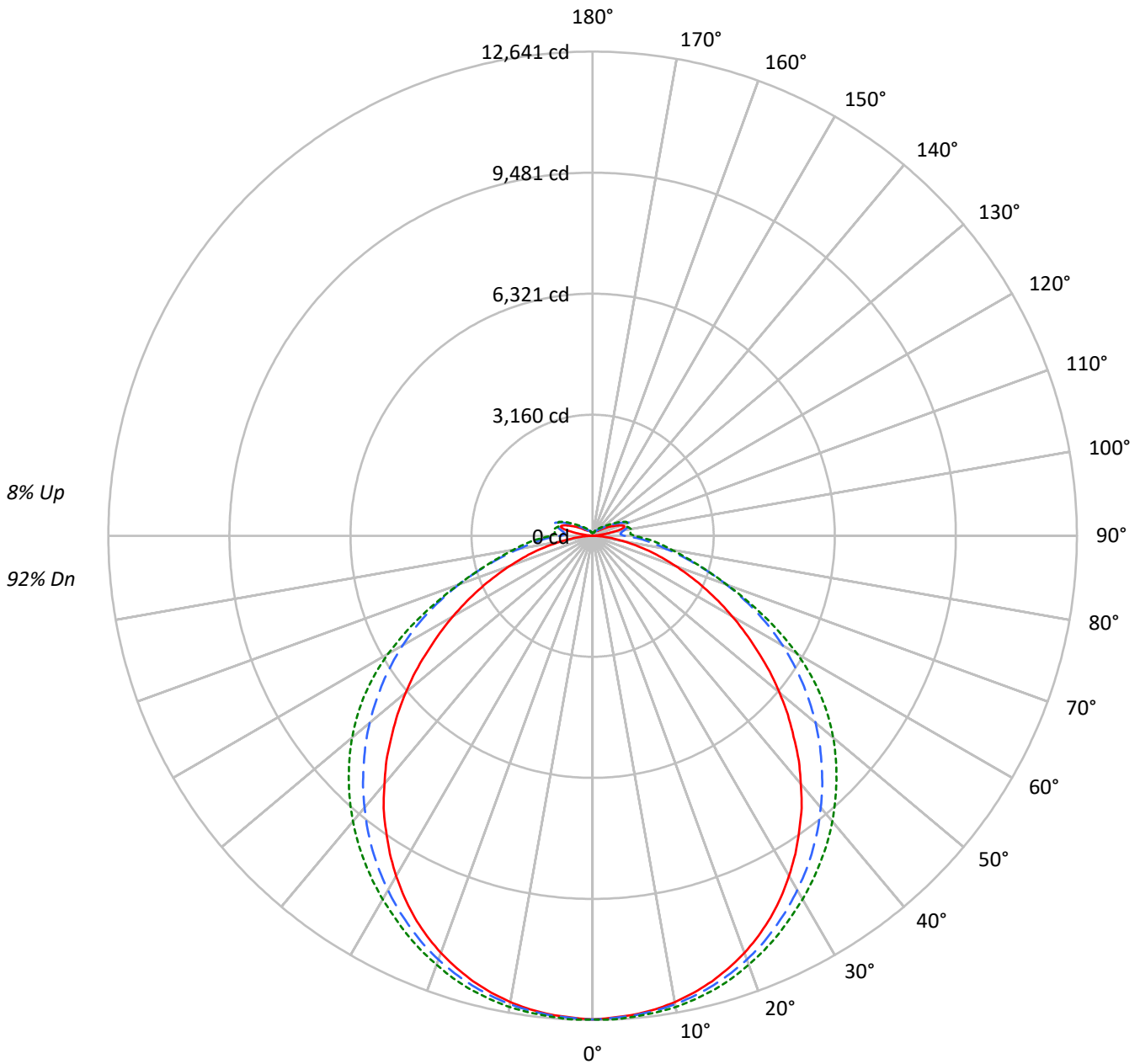
Lumens per Lamp: N/A
Luminaire Lumens: 39812.8 lumens
Efficiency: N/A
Efficacy: 140.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')
CIE Type: Direct

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	117	117	117	117	113	113	113	113	107	107	107	100	100	100	95	95	95	92																			
1	106	101	97	93	103	98	94	91	93	89	86	87	85	82	82	80	78	76																			
2	97	88	81	75	93	86	79	74	81	75	71	76	72	68	72	68	65	63																			
3	88	77	69	63	85	75	68	61	71	65	59	67	62	57	64	59	55	53																			
4	80	68	60	53	78	67	58	52	63	56	50	60	54	49	57	52	47	45																			
5	74	61	52	45	71	59	51	45	56	49	44	54	47	42	51	46	41	39																			
6	68	55	46	40	66	54	45	39	51	44	38	48	42	37	46	41	36	34																			
7	63	50	41	35	61	49	40	34	46	39	34	44	38	33	42	36	32	30																			
8	59	45	37	31	57	44	36	31	42	35	30	40	34	29	39	33	29	27																			
9	55	42	33	28	53	41	33	28	39	32	27	37	31	26	36	30	26	24																			
10	51	38	30	25	50	38	30	25	36	29	25	35	28	24	33	28	24	22																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19972	19972	19972
5°	19761	19783	19927
10°	19539	19608	19907
15°	19238	19400	19855
20°	18865	19145	19741
25°	18395	18826	19627
30°	17777	18481	19517
35°	17047	18113	19443
40°	16187	17689	19382
45°	15190	17227	19286
50°	14108	16761	19160
55°	12802	16189	18864
60°	11466	15517	18119
65°	10016	14657	16780
70°	8453	13562	15348
75°	6863	12297	14596
80°	4927	11382	15290
85°	2778	11830	19168



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1196.6	3.0
10°-20°	3433.0	8.6
20°-30°	5191.8	13.0
30°-40°	6232.8	15.7
40°-50°	6437.5	16.2
50°-60°	5791.7	14.5
60°-70°	4362.8	11.0
70°-80°	2634.4	6.6
80°-90°	1293.6	3.2
90°-100°	735.5	1.8
100°-110°	980.3	2.5
110°-120°	757.1	1.9
120°-130°	378.8	1.0
130°-140°	192.2	0.5
140°-150°	106.4	0.3
150°-160°	56.4	0.1
160°-170°	24.2	0.1
170°-180°	7.4	0.0
0°-30°	9821.5	24.7
0°-40°	16054.3	40.3
0°-60°	28283.5	71.0
0°-90°	36574.3	91.9
90°-120°	2473.0	6.2
90°-150°	3150.4	7.9
90°-180°	3238.0	8.1
0°-180°	39812.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12629	12629	12629	12629	12629	
5°	12548	12582	12567	12616	12601	###
15°	12042	12100	12156	12258	12270	3395
25°	10997	11117	11275	11451	11479	5058
35°	9402	9622	10017	10320	10382	5878
45°	7421	7795	8447	8908	9003	5729
55°	5257	5801	6682	7186	7272	4714
65°	3208	3863	4729	4964	4908	3187
75°	1511	2170	2738	2810	2782	1612
85°	315	831	1372	1561	1589	364
90°	4	353	824	1041	1087	23
95°	60	312	731	938	991	150
105°	858	953	1043	946	924	815
115°	601	654	793	862	869	607
125°	306	331	429	484	491	287
135°	188	198	241	289	303	149
145°	152	152	158	183	193	95
155°	128	132	131	129	132	55
165°	83	84	85	85	85	24
175°	75	76	76	77	77	7
180°	75	75	75	75	75	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12628.8	12628.8	12628.8	<i>12628.8</i>	12628.8
2.5°	<i>12591.7</i>	<i>12622.6</i>	<i>12604.1</i>	<i>12644.2</i>	<i>12641.2</i>
5°	12548.4	12582.4	12567.0	<i>12616.4</i>	12601.0
7.5°	12474.2	12511.3	12508.2	<i>12563.9</i>	12557.7
10°	12366.1	12406.2	12418.6	<i>12492.8</i>	12492.8
12.5°	12217.8	12270.2	12301.2	<i>12390.8</i>	12393.9
15°	12041.6	12100.2	12155.9	<i>12257.9</i>	12270.2
17.5°	11828.2	11902.5	11979.8	<i>12097.2</i>	12112.7
20°	11587.3	11670.7	11775.8	<i>11899.3</i>	11917.9
22.5°	11309.1	11407.9	11543.9	<i>11689.2</i>	11710.8
25°	10996.9	11117.4	11275.1	<i>11451.2</i>	11479.0
27.5°	10641.4	10780.5	10993.8	<i>11191.6</i>	11216.3
30°	10255.1	10418.9	10684.8	<i>10919.6</i>	10959.8
32.5°	9847.1	10035.7	10363.2	<i>10626.0</i>	10681.6
35°	9402.1	9621.5	10017.1	<i>10320.0</i>	10381.8
37.5°	8963.2	9204.2	9652.4	<i>9998.6</i>	10072.8
40°	8450.1	8749.9	9263.0	<i>9646.2</i>	9735.8
42.5°	7967.9	8292.5	8873.5	<i>9290.8</i>	9377.3
45°	7420.9	7794.8	8447.0	<i>8907.5</i>	9003.3
47.5°	6907.8	7312.7	8035.9	<i>8511.9</i>	8610.8
50°	6366.9	6812.0	7597.1	<i>8094.7</i>	8196.7
52.5°	5826.1	6305.1	7142.8	<i>7658.8</i>	7754.7
55°	5257.3	5801.3	6682.2	<i>7186.0</i>	7272.5
57.5°	4728.8	5303.8	6209.3	<i>6688.4</i>	6740.9
60°	4206.5	4803.0	5727.2	<i>6147.5</i>	6166.0
62.5°	3696.5	4323.9	5232.7	<i>5566.4</i>	5541.8
65°	3208.2	3863.4	4728.8	<i>4963.8</i>	4908.1
67.5°	2738.4	3415.3	4212.7	<i>4364.2</i>	4289.9
70°	2293.3	2979.5	3712.0	<i>3789.3</i>	3721.2
72.5°	1900.8	2565.3	3205.1	<i>3270.0</i>	3220.6
75°	1511.4	2169.7	2738.4	<i>2809.5</i>	2781.7
77.5°	1146.7	1786.4	2308.8	<i>2401.5</i>	2407.7
80°	825.2	1437.2	1934.8	<i>2080.1</i>	2098.6
82.5°	544.0	1115.8	1622.7	<i>1808.1</i>	1835.9
85°	315.2	831.4	1372.2	<i>1560.8</i>	1588.7
87.5°	136.0	599.6	1103.4	<i>1273.4</i>	1307.4
90°	4.2	352.8	824.2	<i>1040.7</i>	1086.8
92.5°	23.4	306.4	733.8	<i>944.2</i>	989.1
95°	59.6	311.9	730.6	<i>938.0</i>	990.8
97.5°	242.8	427.9	770.8	<i>968.0</i>	1023.3
100°	478.6	649.1	836.2	<i>988.4</i>	1020.7
102.5°	729.4	848.8	901.3	<i>962.3</i>	977.3
105°	857.5	953.4	1043.3	<i>945.9</i>	923.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	698.1	766.8	904.9	966.1	951.8
115°	601.4	653.6	792.7	862.1	869.4
117.5°	521.2	556.0	682.9	750.1	760.2
120°	436.2	470.1	588.8	646.4	653.8
122.5°	370.3	395.8	502.8	559.8	564.1
125°	306.4	330.7	429.3	484.0	490.8
127.5°	260.0	277.0	365.7	422.2	430.6
130°	229.2	238.9	315.2	368.6	378.7
132.5°	205.8	217.8	273.1	325.9	337.4
135°	188.3	197.8	240.8	288.8	302.8
137.5°	174.2	182.8	212.6	258.3	270.7
140°	164.8	171.2	190.8	229.5	242.8
142.5°	157.0	160.3	169.8	205.5	214.8
145°	151.8	152.0	157.6	183.2	193.2
147.5°	144.2	147.6	149.2	163.2	172.6
150°	138.4	143.2	142.6	146.5	156.6
152.5°	132.6	137.3	136.8	134.5	140.7
155°	127.6	132.3	130.9	128.7	131.8
157.5°	92.5	94.2	95.8	96.7	96.7
160°	89.2	90.0	91.7	92.5	92.5
162.5°	85.8	86.7	87.5	88.3	88.3
165°	83.3	84.2	85.0	85.0	85.0
167.5°	80.8	80.8	81.7	82.5	82.5
170°	78.3	79.2	79.2	80.0	80.0
172.5°	76.7	77.5	77.5	77.5	78.3
175°	75.0	75.8	75.8	76.7	76.7
177.5°	75.0	75.0	75.0	75.0	75.0
180°	75.0	75.0	75.0	75.0	75.0



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	860.8	953.8	1077.3	1003.1	916.9
110°	795.8	880.6	1010.0	1032.3	966.2



(END OF REPORT)