

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: P827057

Luminaire Tested: **OHBL-12SE-MCL-UNV-L840-CD-UPL12**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P827057  
REPORT IS A COMBINATION OF REPORTS P826054 AND G3-2310-221-12  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-12SE-MCL-UNV-L840-CD-UPL12  
Description: 12000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND MEDIUM CLEAR LENS AND 1200 LUMEN UPLIGHT MODULE  
Light Source: -  
Ballast/Driver: -

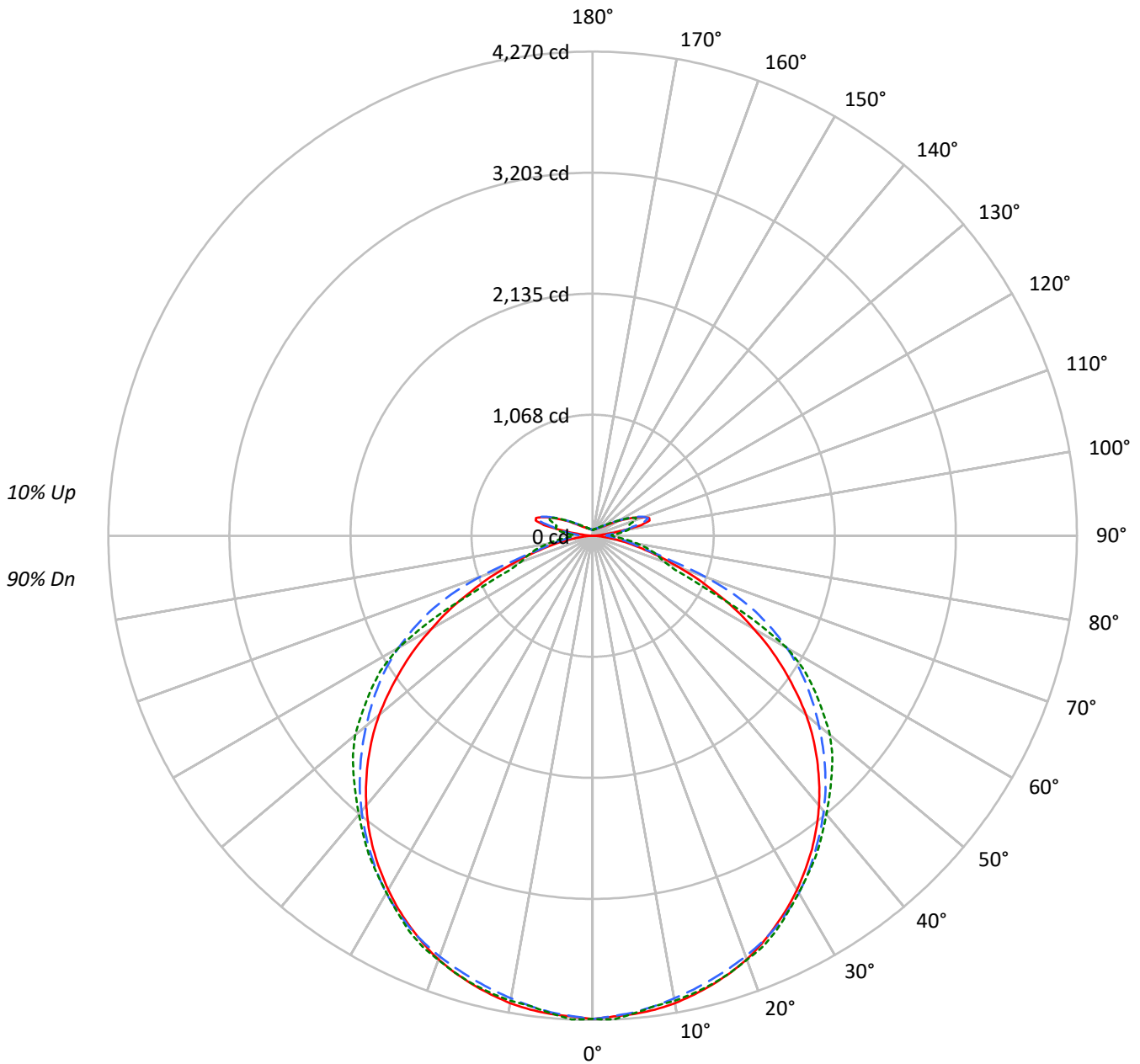
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13289.4 lumens  
Efficiency: N/A  
Efficacy: 169.5 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 0.88' x H: 0.17')  
CIE Type: Semi-Direct  
  
Input Watts (W): 78.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	78	76																			
2	97	89	83	77	94	87	81	76	81	76	72	77	73	69	72	69	66	63																			
3	89	79	71	64	85	76	69	63	72	66	61	68	63	58	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	46	41	37	35																			
7	64	51	42	36	61	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	32	28	38	31	27	36	30	26	24																			
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°	13863	13863	13863
5°	13599	13580	13748
10°	13379	13295	13653
15°	13126	13064	13620
20°	12872	12889	13560
25°	12545	12712	13503
30°	12201	12477	13315
35°	11818	12152	13245
40°	11370	11815	13132
45°	10817	11435	13136
50°	10135	11008	13137
55°	9184	10575	12770
60°	8021	9987	11949
65°	6607	9012	7691
70°	5039	6868	5698
75°	3495	3942	5972
80°	2147	3110	6021
85°	962	2597	6332



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	401.8	3.0
10°-20°	1152.1	8.7
20°-30°	1759.7	13.2
30°-40°	2135.1	16.1
40°-50°	2237.8	16.8
50°-60°	2027.8	15.3
60°-70°	1359.5	10.2
70°-80°	610.5	4.6
80°-90°	224.7	1.7
90°-100°	185.7	1.4
100°-110°	445.4	3.4
110°-120°	371.3	2.8
120°-130°	179.1	1.3
130°-140°	91.2	0.7
140°-150°	53.6	0.4
150°-160°	31.9	0.2
160°-170°	16.9	0.1
170°-180°	5.2	0.0
0°-30°	3313.6	24.9
0°-40°	5448.7	41.0
0°-60°	9714.3	73.1
0°-90°	11909.0	89.6
90°-120°	1002.4	7.5
90°-150°	1326.3	10.0
90°-180°	1380.0	10.4
0°-180°	13289.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4261	4261	4261	4261	4261	
5°	4234	4248	4219	4232	4226	403
15°	4096	4080	4051	4087	4092	1156
25°	3805	3789	3815	3850	3839	1754
35°	3373	3381	3415	3452	3438	2108
45°	2799	2845	2898	2972	2981	2156
55°	2060	2159	2306	2399	2393	1839
65°	1209	1398	1587	1340	1094	1204
75°	476	690	508	519	553	520
85°	82	157	202	243	255	100
90°	4	70	128	162	172	7
95°	26	91	158	203	223	83
105°	520	525	471	352	328	492
115°	365	367	379	381	376	364
125°	180	188	198	198	200	168
135°	108	111	116	120	120	86
145°	80	83	84	86	87	51
155°	66	68	69	70	69	31
165°	59	59	60	60	60	17
175°	54	54	53	52	52	5
180°	52	52	52	52	52	



TEST NUMBER: P827057

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4261.2	4261.2	4261.2	4261.2	4261.2
2.5°	4243.9	4261.8	4239.6	4263.6	4269.8
5°	4233.5	4248.2	4218.7	4231.6	4226.1
7.5°	4214.4	4219.3	4184.2	4194.6	4183.5
10°	4186.0	4183.5	4142.3	4162.6	4165.1
12.5°	4144.1	4136.7	4099.8	4130.6	4131.2
15°	4096.1	4080.0	4051.1	4086.8	4091.7
17.5°	4040.6	4019.7	4000.6	4046.8	4039.4
20°	3975.9	3951.3	3947.6	3998.1	3979.6
22.5°	3895.8	3876.7	3885.3	3933.4	3921.7
25°	3805.2	3788.6	3815.1	3850.2	3839.1
27.5°	3709.7	3699.9	3730.1	3757.2	3735.6
30°	3605.0	3599.5	3639.5	3661.7	3634.6
32.5°	3491.0	3492.9	3531.1	3561.3	3536.0
35°	3372.7	3380.7	3415.2	3451.6	3438.0
37.5°	3242.7	3260.6	3295.1	3336.4	3322.2
40°	3105.3	3131.2	3169.4	3219.3	3206.4
42.5°	2956.8	2989.5	3038.8	3094.2	3093.0
45°	2799.1	2844.7	2897.7	2971.6	2980.9
47.5°	2635.2	2686.3	2753.5	2852.1	2866.3
50°	2457.1	2521.2	2605.0	2723.3	2731.9
52.5°	2258.7	2346.2	2457.1	2570.5	2560.0
55°	2059.7	2158.9	2306.2	2398.6	2393.1
57.5°	1861.3	1972.9	2151.5	2217.5	2216.8
60°	1639.5	1780.6	1975.9	2025.8	1976.6
62.5°	1434.4	1585.9	1788.6	1752.3	1583.5
65°	1208.9	1398.0	1587.2	1339.5	1093.6
67.5°	1008.6	1205.8	1348.1	917.4	785.6
70°	807.1	1024.6	1051.1	680.8	671.6
72.5°	628.5	860.1	725.2	582.9	612.4
75°	475.7	690.1	507.7	519.4	553.3
77.5°	346.9	529.9	394.9	455.3	483.0
80°	238.4	375.2	322.2	382.6	401.7
82.5°	149.7	247.7	258.2	308.1	327.8
85°	81.9	157.1	201.5	243.4	255.1
87.5°	33.9	94.9	154.0	187.9	197.8
90°	3.6	70.4	128.1	161.6	171.8
92.5°	9.6	63.0	123.0	159.4	168.7
95°	25.6	90.7	157.5	202.9	223.3
97.5°	136.2	172.9	225.8	268.1	280.6
100°	277.8	318.6	296.9	318.4	325.2
102.5°	441.5	450.3	357.9	336.5	333.4
105°	519.5	525.2	471.1	351.5	328.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	422.3	429.6	438.9	428.5	412.7
115°	364.9	367.4	378.9	380.8	376.0
117.5°	306.9	312.2	324.4	325.1	324.3
120°	257.9	264.5	274.6	273.6	274.3
122.5°	217.9	222.9	232.7	232.8	234.4
125°	180.3	187.9	198.1	197.9	199.6
127.5°	151.9	157.9	169.9	170.7	171.3
130°	132.9	137.5	145.6	149.1	149.1
132.5°	119.5	123.2	129.0	132.5	133.5
135°	107.5	111.2	115.8	119.9	120.5
137.5°	100.2	102.2	105.2	109.2	110.9
140°	92.2	95.2	96.5	100.0	100.6
142.5°	85.5	88.2	89.5	92.4	94.0
145°	80.5	83.2	84.2	85.8	87.4
147.5°	76.2	78.2	80.2	80.2	81.8
150°	73.2	74.2	75.2	76.2	76.2
152.5°	69.2	70.2	71.2	72.2	72.2
155°	66.2	67.8	68.8	69.8	69.2
157.5°	63.2	65.8	65.8	66.8	66.8
160°	61.2	62.8	63.8	63.8	63.8
162.5°	59.8	60.8	60.8	61.8	61.8
165°	58.8	58.8	59.8	59.8	59.8
167.5°	56.8	57.4	57.8	57.8	57.8
170°	55.8	55.8	55.8	56.2	56.2
172.5°	54.8	54.8	54.8	54.2	54.2
175°	53.8	53.8	53.2	52.5	52.5
177.5°	53.4	53.8	53.2	52.5	51.9
180°	52.2	52.2	52.2	52.2	52.2



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	523.1	533.7	511.2	409.4	346.6
110°	479.7	492.9	486.3	450.8	401.0



(END OF REPORT)