

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: P827056

Luminaire Tested: **OHBL-12SE-A-UNV-L840-CD-UPL18**

Issue Date: 5/3/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P827056  
REPORT IS A COMBINATION OF REPORTS P826149 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: OHBL-12SE-A-UNV-L840-CD-UPL18  
Description: 12000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND AISLE LENS AND 1800 LUMEN UPLIGHT MODULE  
Light Source: -  
Ballast/Driver: -

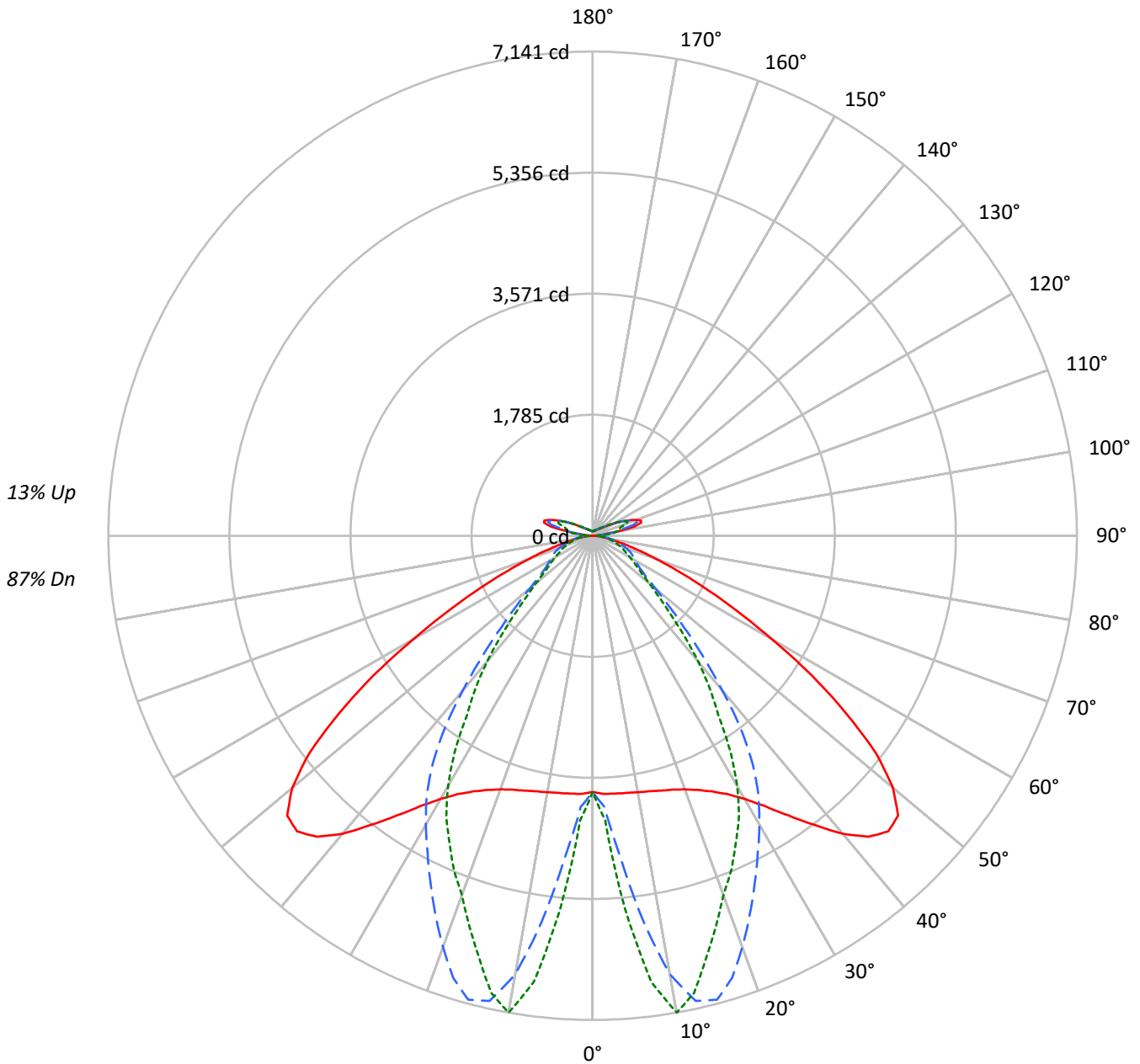
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13916.9 lumens  
Efficiency: N/A  
Efficacy: 169.1 lumens/watt  
Spacing Criteria (0/90/45): 2.18 / 1.37 / 1.3  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 0.88' x H: 0.17')  
CIE Type: Semi-Direct  
  
Input Watts (W): 82.3  
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				20				
RC	80				70				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	116	116	116	116	112	112	112	112	104	104	104	97	97	97	90	90	90	87			87
1	108	104	100	97	104	100	97	94	94	91	89	88	86	84	82	81	79	76			76
2	99	92	87	82	96	89	84	80	84	80	76	79	76	73	74	72	69	67			67
3	92	83	76	70	88	80	74	69	76	70	66	71	67	63	67	64	61	58			58
4	85	75	67	61	82	72	65	60	68	63	58	65	60	56	61	57	54	52			52
5	79	68	60	54	76	66	58	53	62	56	51	59	54	50	56	52	48	46			46
6	73	61	54	48	71	60	53	47	57	51	46	54	49	44	51	47	43	41			41
7	68	56	48	43	66	55	48	42	52	46	41	50	44	40	47	43	39	37			37
8	64	52	44	39	62	50	43	38	48	42	37	46	40	36	44	39	35	34			34
9	60	48	40	35	58	47	40	35	45	38	34	43	37	33	41	36	32	31			31
10	56	44	37	32	54	43	36	32	41	35	31	40	34	30	38	33	30	28			28

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	12295	12295	12295
5°	12261	15378	18023
10°	12275	21085	23410
15°	12470	22842	21486
20°	12883	21075	19202
25°	13709	18843	17564
30°	15154	16861	15618
35°	17650	14660	12446
40°	21008	11083	9905
45°	23825	7489	7050
50°	23844	5090	5214
55°	20329	3962	4260
60°	14911	3658	3833
65°	9989	3609	3630
70°	6198	3406	3516
75°	3575	3056	3363
80°	1975	2561	3471
85°	850	2022	3217



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	493.4	3.5
10°-20°	1741.3	12.5
20°-30°	2565.9	18.4
30°-40°	2696.4	19.4
40°-50°	2063.2	14.8
50°-60°	1245.9	9.0
60°-70°	760.3	5.5
70°-80°	415.0	3.0
80°-90°	150.1	1.1
90°-100°	171.2	1.2
100°-110°	594.6	4.3
110°-120°	510.9	3.7
120°-130°	245.3	1.8
130°-140°	122.6	0.9
140°-150°	71.2	0.5
150°-160°	41.5	0.3
160°-170°	21.5	0.2
170°-180°	6.6	0.0
0°-30°	4800.6	34.5
0°-40°	7497.0	53.9
0°-60°	10806.1	77.6
0°-90°	12131.5	87.2
90°-120°	1276.7	9.2
90°-150°	1715.8	12.3
90°-180°	1785.0	12.8
0°-180°	13916.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3779	3779	3779	3779	3779	
5°	3817	4095	4777	5334	5540	365
15°	3891	6061	7084	6610	6455	1106
25°	4158	7034	5655	5120	4994	1943
35°	5037	5633	4120	3431	3230	3195
45°	6165	3214	1898	1670	1600	4658
55°	4559	1090	864	801	798	4029
65°	1828	690	636	544	516	1873
75°	487	429	394	325	312	560
85°	72	133	157	143	130	89
90°	4	25	34	45	50	7
95°	38	82	129	167	191	120
105°	741	734	626	441	407	703
115°	513	519	518	512	511	517
125°	250	262	269	268	266	235
135°	148	151	156	158	159	117
145°	108	110	113	114	114	68
155°	86	88	89	90	90	40
165°	74	75	75	76	76	21
175°	67	67	68	68	68	6
180°	67	67	67	67	67	



TEST NUMBER: P827056

CATALOG NUMBER: OHBL-12SE-A-UNV-L840-CD-UPL18

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3779.1	3779.1	3779.1	3779.1	3779.1
2.5°	3810.1	3848.9	4002.3	4161.4	4200.1
5°	3817.0	4095.1	4777.2	5334.2	5540.0
7.5°	3825.1	4493.9	5737.4	6419.3	6637.6
10°	3840.5	4998.2	6569.4	7058.9	7141.4
12.5°	3859.6	5532.5	7027.2	7009.3	6905.3
15°	3891.4	6061.0	7083.5	6610.0	6454.6
17.5°	3924.8	6508.1	6837.6	6175.4	6040.1
20°	3979.1	6840.0	6454.9	5789.1	5635.3
22.5°	4057.3	7022.5	6053.7	5439.7	5339.4
25°	4158.3	7034.3	5655.2	5119.9	4993.5
27.5°	4293.6	6871.1	5273.2	4806.7	4673.2
30°	4477.7	6558.7	4918.3	4428.9	4263.3
32.5°	4727.8	6109.0	4552.4	3972.9	3787.2
35°	5037.0	5633.2	4119.9	3431.0	3230.4
37.5°	5374.4	5104.9	3595.0	2951.2	2834.3
40°	5737.4	4560.5	2972.9	2502.1	2418.5
42.5°	6020.6	3968.7	2395.0	2079.3	1990.3
45°	6165.0	3214.3	1897.8	1670.0	1599.8
47.5°	6108.8	2495.1	1504.5	1326.9	1305.8
50°	5780.6	1842.4	1204.4	1093.1	1084.3
52.5°	5267.6	1373.2	994.9	926.0	910.9
55°	4559.2	1090.0	863.9	800.7	798.3
57.5°	3827.9	926.0	784.2	735.2	718.2
60°	3047.8	825.7	723.7	668.5	634.0
62.5°	2389.0	755.5	679.3	604.3	572.1
65°	1827.8	690.0	635.6	543.9	516.1
67.5°	1362.6	627.6	582.1	480.3	464.1
70°	992.7	563.6	521.2	427.2	414.4
72.5°	707.5	499.8	460.2	377.3	363.2
75°	486.6	429.1	393.6	324.8	311.6
77.5°	328.3	357.0	328.0	277.3	271.8
80°	219.3	283.1	265.3	235.0	231.6
82.5°	133.0	205.5	209.4	191.1	181.8
85°	72.4	133.0	156.9	142.9	129.6
87.5°	28.4	73.7	108.1	97.1	91.4
90°	4.0	25.0	34.0	45.0	50.0
92.5°	13.0	33.0	55.0	76.0	84.0
95°	38.0	82.0	129.0	167.0	191.0
97.5°	195.0	213.0	238.0	282.0	298.0
100°	402.0	422.0	354.0	371.0	377.0
102.5°	629.0	628.0	454.0	410.0	404.0
105°	741.0	734.0	626.0	441.0	407.0



TEST NUMBER: P827056

CATALOG NUMBER: OHBL-12SE-A-UNV-L840-CD-UPL18

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	602.0	606.0	594.0	578.0	553.0
115°	513.0	519.0	518.0	512.0	511.0
117.5°	437.0	440.0	442.0	440.0	441.0
120°	365.0	372.0	376.0	373.0	371.0
122.5°	305.0	314.0	319.0	316.0	314.0
125°	250.0	262.0	269.0	268.0	266.0
127.5°	212.0	221.0	230.0	229.0	227.0
130°	184.0	191.0	197.0	198.0	199.0
132.5°	165.0	168.0	174.0	175.0	177.0
135°	148.0	151.0	156.0	158.0	159.0
137.5°	135.0	138.0	142.0	144.0	145.0
140°	124.0	127.0	130.0	132.0	133.0
142.5°	115.0	118.0	121.0	122.0	123.0
145°	108.0	110.0	113.0	114.0	114.0
147.5°	101.0	103.0	105.0	107.0	107.0
150°	95.0	97.0	99.0	100.0	101.0
152.5°	91.0	92.0	94.0	95.0	95.0
155°	86.0	88.0	89.0	90.0	90.0
157.5°	83.0	84.0	85.0	86.0	86.0
160°	80.0	80.0	81.0	82.0	82.0
162.5°	77.0	77.0	78.0	79.0	79.0
165°	74.0	75.0	75.0	76.0	76.0
167.5°	72.0	72.0	73.0	73.0	74.0
170°	70.0	70.0	71.0	71.0	71.0
172.5°	68.0	69.0	69.0	69.0	69.0
175°	67.0	67.0	68.0	68.0	68.0
177.5°	66.0	67.0	67.0	67.0	67.0
180°	67.0	67.0	67.0	67.0	67.0



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	748.0	748.0	690.0	536.0	449.0
110°	685.0	693.0	663.0	603.0	534.0



(END OF REPORT)