

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: P827089

Luminaire Tested: **OHBL-15SE-W-UNV-L840-CD-UPL15**

Issue Date: 5/3/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P827089  
REPORT IS A COMBINATION OF REPORTS P826118 AND G3-2310-221-10  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-15SE-W-UNV-L840-CD-UPL15  
Description: 15000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND WIDE LENS AND 1500 LUMEN UPLIGHT MODULE  
Light Source: -  
Ballast/Driver: -

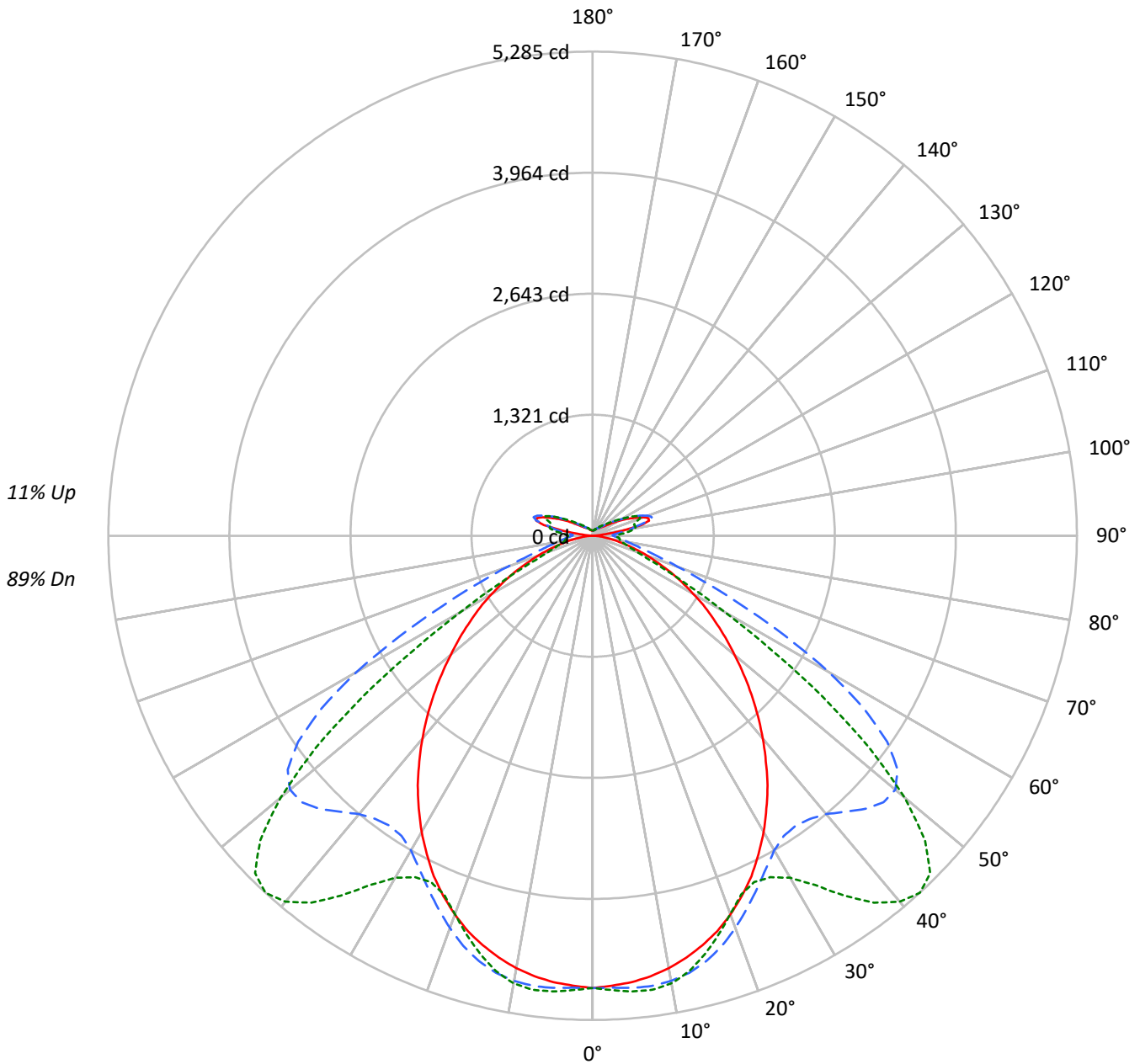
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16300.2 lumens  
Efficiency: N/A  
Efficacy: 167.5 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 0.88' x H: 0.17')  
CIE Type: Semi-Direct  
  
Input Watts (W): 97.3  
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	105	105	105	98	98	98	92	92	92	89			89
1	107	102	98	94	103	99	95	92	92	90	87	87	84	82	81	80	78	75			75
2	97	89	83	77	94	87	81	76	81	76	72	76	72	69	72	69	66	63			63
3	89	79	71	64	85	76	69	63	72	66	61	67	62	58	63	59	56	53			53
4	81	70	61	55	78	67	60	54	64	57	52	60	54	50	57	52	48	45			45
5	74	62	53	47	72	60	52	46	57	50	44	54	48	43	51	46	41	39			39
6	69	56	47	41	66	54	46	40	51	44	39	48	42	37	46	40	36	34			34
7	63	50	42	36	61	49	41	35	46	39	34	44	38	33	42	36	32	30			30
8	59	46	37	31	57	44	37	31	42	35	30	40	34	29	38	33	29	26			26
9	55	42	34	28	53	41	33	28	39	32	27	37	31	26	35	30	26	24			24
10	51	38	30	25	50	37	30	25	36	29	24	34	28	24	32	27	23	21			21

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

	0°	45°	90°
0°	16060	16060	16060
5°	15710	15949	16243
10°	15318	15838	16263
15°	14829	15490	15741
20°	14238	14873	14970
25°	13518	14149	14670
30°	12634	13590	15787
35°	11663	13749	18473
40°	10580	14782	21356
45°	9471	16631	22955
50°	8338	18219	21362
55°	7275	17998	16322
60°	6211	15025	9980
65°	5116	10202	6045
70°	3937	6451	4364
75°	2770	4482	4047
80°	1755	3752	4565
85°	939	3789	7218



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	471.7	2.9
10°-20°	1335.8	8.2
20°-30°	1954.8	12.0
30°-40°	2538.7	15.6
40°-50°	3100.1	19.0
50°-60°	2730.1	16.7
60°-70°	1422.7	8.7
70°-80°	610.1	3.7
80°-90°	296.8	1.8
90°-100°	283.3	1.7
100°-110°	590.2	3.6
110°-120°	484.2	3.0
120°-130°	235.6	1.4
130°-140°	117.8	0.7
140°-150°	67.0	0.4
150°-160°	37.5	0.2
160°-170°	18.3	0.1
170°-180°	5.6	0.0
0°-30°	3762.4	23.1
0°-40°	6301.1	38.7
0°-60°	12131.2	74.4
0°-90°	14460.8	88.7
90°-120°	1357.6	8.3
90°-150°	1778.1	10.9
90°-180°	1839.0	11.3
0°-180°	16300.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4937	4937	4937	4937	4937	
5°	4891	4928	4955	4998	4993	464
15°	4628	4758	4804	4767	4729	1303
25°	4100	4320	4246	4166	4171	1882
35°	3328	3680	3864	4506	4795	2074
45°	2451	3083	4214	5103	5209	1890
55°	1632	2701	3925	3441	3059	1464
65°	936	1871	1797	999	860	926
75°	377	876	577	395	375	411
85°	80	312	294	288	291	89
90°	4	135	223	260	270	8
95°	30	138	261	323	351	101
105°	637	661	632	496	468	604
115°	442	457	502	514	507	447
125°	218	234	265	274	274	206
135°	131	135	149	163	165	104
145°	100	99	102	111	113	63
155°	82	82	82	82	83	37
165°	63	63	64	64	64	18
175°	57	57	57	58	58	6
180°	57	57	57	57	57	



TEST NUMBER: P827089

CATALOG NUMBER: OHBL-15SE-W-UNV-L840-CD-UPL15

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4936.6	4936.6	4936.6	4936.6	4936.6
2.5°	4915.3	4936.6	4937.6	4967.5	4964.3
5°	4890.8	4928.1	4954.7	4998.4	4993.0
7.5°	4850.3	4908.9	4955.8	5003.7	4999.4
10°	4792.8	4872.7	4934.5	4973.9	4961.1
12.5°	4718.2	4823.7	4884.4	4892.9	4868.4
15°	4627.7	4757.7	4803.5	4767.2	4728.9
17.5°	4525.5	4677.8	4693.7	4614.9	4567.0
20°	4397.7	4571.3	4555.3	4446.7	4393.4
22.5°	4256.0	4454.1	4403.0	4289.0	4237.9
25°	4100.5	4319.9	4246.4	4166.5	4170.8
27.5°	3918.4	4167.6	4096.2	4132.5	4200.6
30°	3733.1	4007.8	3964.2	4175.1	4309.3
32.5°	3529.6	3843.8	3883.2	4299.7	4519.1
35°	3328.3	3679.8	3864.1	4506.3	4794.9
37.5°	3105.7	3513.7	3894.9	4744.9	5047.4
40°	2889.5	3351.8	3965.2	4959.0	5214.6
42.5°	2669.1	3206.9	4083.5	5085.7	5284.9
45°	2450.7	3083.4	4214.5	5102.7	5209.2
47.5°	2232.4	2979.0	4305.0	4967.5	4918.5
50°	2021.5	2886.3	4311.4	4642.6	4442.4
52.5°	1824.5	2801.1	4194.2	4125.0	3814.0
55°	1631.7	2701.0	3924.8	3441.2	3058.9
57.5°	1455.9	2562.6	3509.4	2706.3	2288.8
60°	1269.6	2375.1	2972.6	1980.0	1650.9
62.5°	1098.1	2141.8	2370.8	1378.2	1186.5
65°	936.2	1871.3	1796.8	999.0	859.5
67.5°	764.7	1591.2	1326.0	728.5	639.0
70°	630.5	1331.3	987.3	566.6	514.4
72.5°	493.1	1084.2	738.1	460.1	431.4
75°	377.0	875.5	577.3	395.1	374.9
77.5°	278.0	692.3	464.4	349.3	330.2
80°	194.9	545.3	388.7	312.1	304.6
82.5°	131.0	421.8	331.2	297.2	298.2
85°	79.9	312.1	294.0	287.6	290.8
87.5°	38.3	221.5	252.4	262.0	265.2
90°	4.1	134.9	222.8	259.5	269.9
92.5°	10.0	114.3	216.4	262.1	277.4
95°	30.1	138.0	261.4	323.1	351.4
97.5°	168.1	241.3	342.5	401.2	422.3
100°	340.2	410.9	422.5	464.2	474.4
102.5°	545.2	565.5	497.8	482.2	478.3
105°	637.3	661.3	632.1	496.4	467.5



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CATALOG NUMBER: OHBL-15SE-W-UNV-L840-CD-UPL15

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	515.4	541.6	577.3	574.2	558.3
115°	442.4	457.3	501.8	513.6	506.7
117.5°	381.5	391.2	430.3	441.1	440.2
120°	319.5	332.0	363.9	374.6	374.7
122.5°	265.5	278.8	312.5	321.3	321.3
125°	218.5	233.7	265.2	273.9	273.9
127.5°	186.4	194.5	225.9	236.5	235.6
130°	162.4	167.4	192.6	204.2	206.3
132.5°	145.4	149.4	169.3	181.0	184.1
135°	131.4	135.4	149.0	162.8	164.8
137.5°	121.4	123.4	134.8	146.5	149.6
140°	111.4	114.4	121.7	133.3	135.4
142.5°	105.5	106.4	111.6	122.1	123.2
145°	99.5	99.4	102.5	110.8	113.0
147.5°	94.5	95.5	97.5	101.7	103.8
150°	89.5	91.5	90.4	93.5	95.7
152.5°	85.5	86.5	86.4	86.4	89.5
155°	81.5	82.5	82.4	82.4	83.4
157.5°	70.0	71.0	72.0	73.0	73.0
160°	67.0	68.0	69.0	69.0	70.0
162.5°	65.0	66.0	66.0	67.0	67.0
165°	63.0	63.0	64.0	64.0	64.0
167.5°	61.0	61.0	62.0	62.0	63.0
170°	59.0	60.0	60.0	60.0	61.0
172.5°	58.0	58.0	59.0	59.0	59.0
175°	57.0	57.0	57.0	58.0	58.0
177.5°	56.0	57.0	57.0	57.0	57.0
180°	57.0	57.0	57.0	57.0	57.0



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	638.3	667.0	676.5	559.6	488.7
110°	589.3	617.8	641.8	607.9	548.0



(END OF REPORT)