

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: P827090

Luminaire Tested: **OHBL-15SE-W-UNV-L840-CD-UPL24**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P827090  
REPORT IS A COMBINATION OF REPORTS P826226 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-15SE-W-UNV-L840-CD-UPL24  
Description: 15000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND WIDE LENS AND 2400 LUMEN UPLIGHT MODULE  
Light Source: -  
Ballast/Driver: -

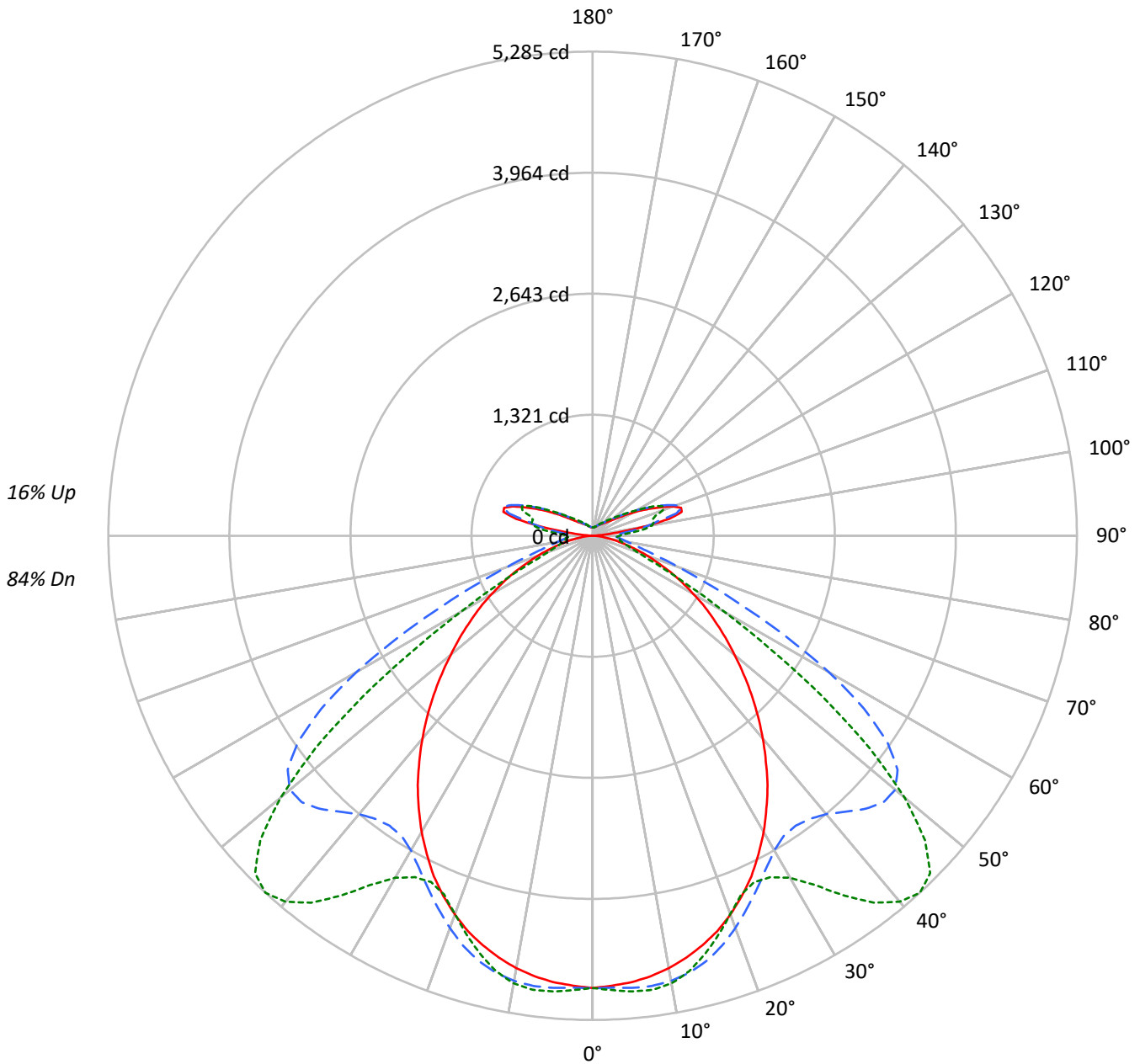
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17201.3 lumens  
Efficiency: N/A  
Efficacy: 164.8 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): 104.4  
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	115	115	115	115	111	111	111	111	102	102	102	95	95	95	87	87	87	84																			
1	106	101	97	93	101	97	94	90	90	87	85	84	81	79	78	76	74	71																			
2	96	88	82	77	92	85	79	74	79	74	70	74	70	66	68	65	63	60																			
3	88	78	70	64	84	75	68	62	70	64	59	65	60	56	61	57	53	50																			
4	80	69	60	54	77	66	59	53	62	55	50	58	52	48	54	49	46	43																			
5	74	61	53	46	70	59	51	45	55	48	43	52	46	41	48	43	40	37																			
6	68	55	46	40	65	53	45	39	50	43	38	47	41	36	44	39	35	32																			
7	63	50	41	35	60	48	40	34	45	38	33	42	36	32	40	34	31	28																			
8	58	45	37	31	56	44	36	30	41	34	29	39	33	28	36	31	27	25																			
9	54	41	33	28	52	40	32	27	38	31	26	35	30	25	33	28	24	22																			
10	51	38	30	25	49	37	29	25	35	28	24	33	27	23	31	26	22	20																			

**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	2.7
10°-20°	1335.8	7.8
20°-30°	1954.8	11.4
30°-40°	2538.7	14.8
40°-50°	3100.1	18.0
50°-60°	2730.1	15.9
60°-70°	1422.7	8.3
70°-80°	610.1	3.5
80°-90°	299.2	1.7
90°-100°	369.5	2.1
100°-110°	890.5	5.2
110°-120°	741.1	4.3
120°-130°	358.7	2.1
130°-140°	179.5	1.0
140°-150°	102.7	0.6
150°-160°	58.3	0.3
160°-170°	29.0	0.2
170°-180°	8.8	0.1
0°-30°	3762.4	21.9
0°-40°	6301.1	36.6
0°-60°	12131.2	70.5
0°-90°	14463.1	84.1
90°-120°	2001.0	11.6
90°-150°	2642.0	15.4
90°-180°	2738.0	15.9
0°-180°	17201.3	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°	6	147	241	284	296	9
95°	55	177	326	409	444	166
105°	1007	1029	944	721	674	956
115°	698	720	761	773	769	705
125°	346	367	399	409	407	323
135°	206	210	228	242	245	163
145°	154	155	160	167	170	97
155°	124	126	126	127	127	57
165°	100	101	102	102	102	29
175°	90	91	91	92	92	9
180°	90	90	90	90	90	



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**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°	6.1	146.9	240.8	283.5	295.9
92.5°	17.0	131.3	242.4	300.1	318.4
95°	55.1	177.0	326.4	409.1	444.4
97.5°	271.1	345.3	451.5	545.2	581.3
100°	555.2	632.9	596.5	650.2	662.4
102.5°	856.2	889.5	728.8	688.2	682.3
105°	1007.3	1029.3	944.1	721.4	674.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	814.4	845.6	874.3	866.2	836.3
115°	698.4	720.3	760.8	772.6	768.7
117.5°	599.5	612.2	651.3	663.1	665.2
120°	497.5	517.0	556.9	564.6	559.7
122.5°	418.5	435.8	470.5	480.3	475.3
125°	345.5	366.7	399.2	408.9	406.9
127.5°	292.4	306.5	339.9	351.5	351.6
130°	255.4	263.4	292.6	304.2	307.3
132.5°	227.4	234.4	256.3	271.0	272.1
135°	206.4	210.4	228.0	241.8	244.8
137.5°	189.4	192.4	205.8	219.5	221.6
140°	174.4	178.4	187.7	200.3	202.4
142.5°	162.5	165.4	172.6	183.1	184.2
145°	153.5	155.4	159.5	166.8	170.0
147.5°	144.5	147.5	149.5	155.7	156.8
150°	137.5	139.5	140.4	143.5	146.7
152.5°	130.5	132.5	133.4	134.4	136.5
155°	124.5	126.5	126.4	127.4	127.4
157.5°	111.0	113.0	115.0	116.0	116.0
160°	107.0	108.0	110.0	111.0	111.0
162.5°	103.0	104.0	105.0	106.0	106.0
165°	100.0	101.0	102.0	102.0	102.0
167.5°	97.0	97.0	98.0	99.0	99.0
170°	94.0	95.0	95.0	96.0	96.0
172.5°	92.0	93.0	93.0	93.0	94.0
175°	90.0	91.0	91.0	92.0	92.0
177.5°	90.0	90.0	90.0	90.0	90.0
180°	90.0	90.0	90.0	90.0	90.0



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	1012.3	1044.0	1022.5	836.6	716.7
110°	934.3	966.8	971.8	911.9	816.0



(END OF REPORT)