

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: P829976

Luminaire Tested: **OHBL-18SE-MFL-UNV-L835-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P829976  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-18SE-MFL-UNV-L835-CD  
Description: 18000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 3500K LEDS AND MEDIUM FROSTED LENS  
Light Source: -  
Ballast/Driver: -

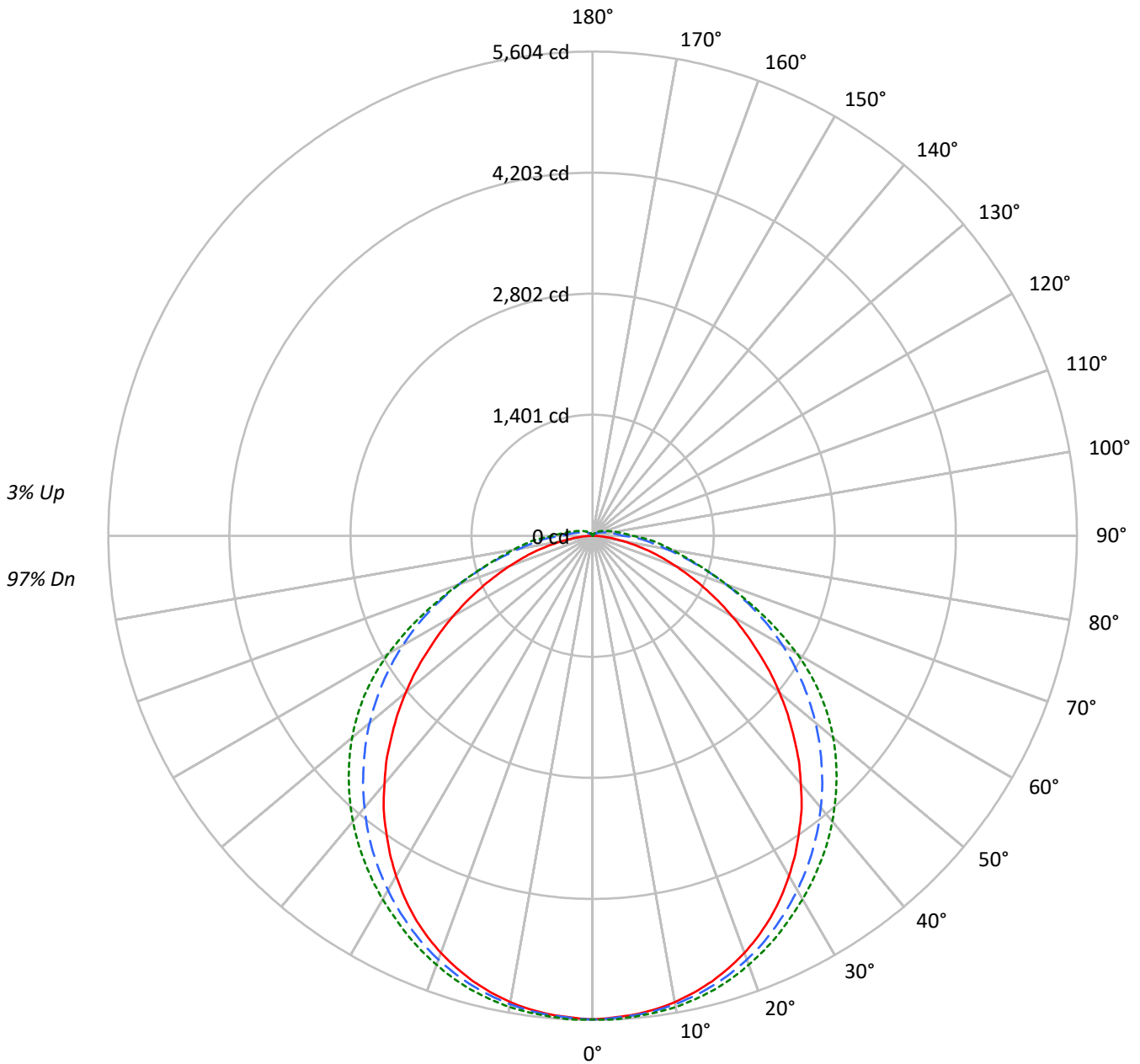
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16756.0 lumens  
Efficiency: N/A  
Efficacy: 159.6 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 105  
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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	99	97
1	107	102	98	94	104	100	96	92	95	91	88	90	88	85	86	84	82	82	82	82	80
2	98	89	82	76	95	87	80	75	83	77	73	79	74	71	75	72	68	68	68	68	66
3	89	78	70	63	86	76	69	62	73	66	61	70	64	59	67	62	58	58	58	58	56
4	81	69	60	53	79	68	59	53	65	57	52	62	56	51	59	54	50	50	50	50	47
5	75	62	53	46	72	60	52	46	58	50	45	56	49	44	53	48	43	43	43	43	41
6	69	56	47	40	67	54	46	40	52	45	39	50	44	39	48	43	38	38	38	38	36
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	44	38	34	34	34	34	32
8	60	46	37	31	58	45	37	31	43	36	31	42	35	31	41	35	30	30	30	30	28
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	37	32	27	27	27	27	25
10	52	39	31	26	51	38	31	26	37	30	25	36	29	25	35	29	25	25	25	25	23

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

	0°	45°	90°
0°	9563	9563	9563
5°	9501	9468	9495
10°	9435	9380	9439
15°	9329	9276	9368
20°	9189	9149	9266
25°	9003	8993	9163
30°	8744	8823	9059
35°	8431	8643	8969
40°	8055	8435	8878
45°	7611	8209	8764
50°	7126	7980	8627
55°	6529	7701	8401
60°	5919	7372	7959
65°	5252	6953	7241
70°	4529	6420	6462
75°	3797	5804	5926
80°	2878	5347	5839
85°	1822	5508	6440



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	530.5	3.2
10°-20°	1522.0	9.1
20°-30°	2301.7	13.7
30°-40°	2763.2	16.5
40°-50°	2853.9	17.0
50°-60°	2567.6	15.3
60°-70°	1934.2	11.5
70°-80°	1167.9	7.0
80°-90°	571.2	3.4
90°-100°	240.4	1.4
100°-110°	137.2	0.8
110°-120°	80.6	0.5
120°-130°	45.6	0.3
130°-140°	24.0	0.1
140°-150°	11.7	0.1
150°-160°	4.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	4354.1	26.0
0°-40°	7117.3	42.5
0°-60°	12538.9	74.8
0°-90°	16212.2	96.8
90°-120°	458.2	2.7
90°-150°	539.5	3.2
90°-180°	544.0	3.2
0°-180°	16756.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5599	5599	5599	5599	5599	
5°	5563	5578	5571	5593	5586	529
15°	5338	5364	5389	5434	5440	1505
25°	4875	4929	4999	5077	5089	2242
35°	4168	4266	4441	4575	4603	2606
45°	3290	3456	3745	3949	3991	2540
55°	2331	2572	2962	3186	3224	2090
65°	1422	1713	2096	2201	2176	1413
75°	670	962	1214	1246	1233	715
85°	140	369	608	692	704	162
90°	0	144	348	438	456	9
95°	7	97	260	332	344	6
105°	10	56	151	197	206	10
115°	11	32	93	125	130	11
125°	11	15	56	81	85	10
135°	10	12	29	49	55	8
145°	14	12	14	25	29	8
155°	14	15	14	12	14	4
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P829976

CATALOG NUMBER: OHBL-18SE-MFL-UNV-L835-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5598.7	5598.7	5598.7	5598.7	5598.7
2.5°	5582.3	5596.0	5587.8	5605.6	5604.2
5°	5563.1	5578.2	5571.3	5593.2	5586.4
7.5°	5530.2	5546.6	5545.3	5569.9	5567.2
10°	5482.2	5500.1	5505.5	5538.4	5538.4
12.5°	5416.5	5439.8	5453.5	5493.2	5494.6
15°	5338.4	5364.4	5389.1	5434.3	5439.8
17.5°	5243.8	5276.7	5311.0	5363.0	5369.9
20°	5136.9	5173.9	5220.5	5275.3	5283.6
22.5°	5013.6	5057.5	5117.8	5182.2	5191.8
25°	4875.2	4928.7	4998.6	5076.7	5089.0
27.5°	4717.7	4779.3	4873.9	4961.6	4972.5
30°	4546.4	4619.0	4736.8	4841.0	4858.8
32.5°	4365.5	4449.1	4594.3	4710.8	4735.5
35°	4168.2	4265.5	4440.9	4575.2	4602.6
37.5°	3973.6	4080.5	4279.2	4432.7	4465.5
40°	3746.2	3879.1	4106.5	4276.5	4316.2
42.5°	3532.4	3676.3	3933.9	4118.9	4157.2
45°	3289.9	3455.7	3744.8	3949.0	3991.4
47.5°	3062.4	3241.9	3562.6	3773.6	3817.4
50°	2822.7	3020.0	3368.0	3588.6	3633.8
52.5°	2582.9	2795.2	3166.6	3395.4	3437.9
55°	2330.7	2571.9	2962.4	3185.8	3224.1
57.5°	2096.4	2351.3	2752.8	2965.2	2988.4
60°	1864.9	2129.3	2539.0	2725.4	2733.6
62.5°	1638.8	1916.9	2319.8	2467.8	2456.8
65°	1422.3	1712.8	2096.4	2200.6	2175.9
67.5°	1214.0	1514.1	1867.6	1934.7	1901.9
70°	1016.7	1320.9	1645.6	1679.9	1649.7
72.5°	842.7	1137.3	1420.9	1449.7	1427.8
75°	670.0	961.9	1214.0	1245.5	1233.2
77.5°	508.4	792.0	1023.6	1064.7	1067.4
80°	365.8	637.2	857.8	922.2	930.4
82.5°	241.2	494.6	719.4	801.6	813.9
85°	139.8	368.6	608.4	692.0	704.3
87.5°	60.3	265.8	489.2	564.5	579.6
90°	0.0	143.9	348.0	438.5	456.3
92.5°	4.1	119.2	298.7	380.9	396.0
95°	6.9	97.3	260.3	331.6	343.9
97.5°	8.2	82.2	226.1	289.1	301.4
100°	8.2	71.3	195.9	253.5	264.5
102.5°	8.2	63.0	171.3	222.0	231.6
105°	9.6	56.2	150.7	197.3	205.5



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CATALOG NUMBER: OHBL-18SE-MFL-UNV-L835-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	11.0	37.0	104.1	139.8	145.2
115°	11.0	31.5	93.2	124.7	130.2
117.5°	12.3	27.4	82.2	112.4	116.5
120°	12.3	23.3	72.6	100.0	105.5
122.5°	12.3	19.2	64.4	90.4	94.5
125°	11.0	15.1	56.2	80.8	85.0
127.5°	9.6	12.3	48.0	72.6	76.7
130°	9.6	11.0	41.1	64.4	68.5
132.5°	9.6	12.3	34.3	56.2	61.7
135°	9.6	12.3	28.8	49.3	54.8
137.5°	9.6	12.3	23.3	42.5	48.0
140°	11.0	12.3	19.2	35.6	41.1
142.5°	12.3	12.3	15.1	30.1	34.3
145°	13.7	12.3	13.7	24.7	28.8
147.5°	13.7	13.7	13.7	19.2	23.3
150°	13.7	15.1	13.7	15.1	19.2
152.5°	13.7	15.1	13.7	12.3	15.1
155°	13.7	15.1	13.7	12.3	13.7
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	9.6	49.3	132.9	175.4	182.2
110°	9.6	43.8	117.8	156.2	163.1



(END OF REPORT)