

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: P829978

Luminaire Tested: **OHBL-18SE-MFL-UNV-L850-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829978
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-L850-CD
Description: 18000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND MEDIUM FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

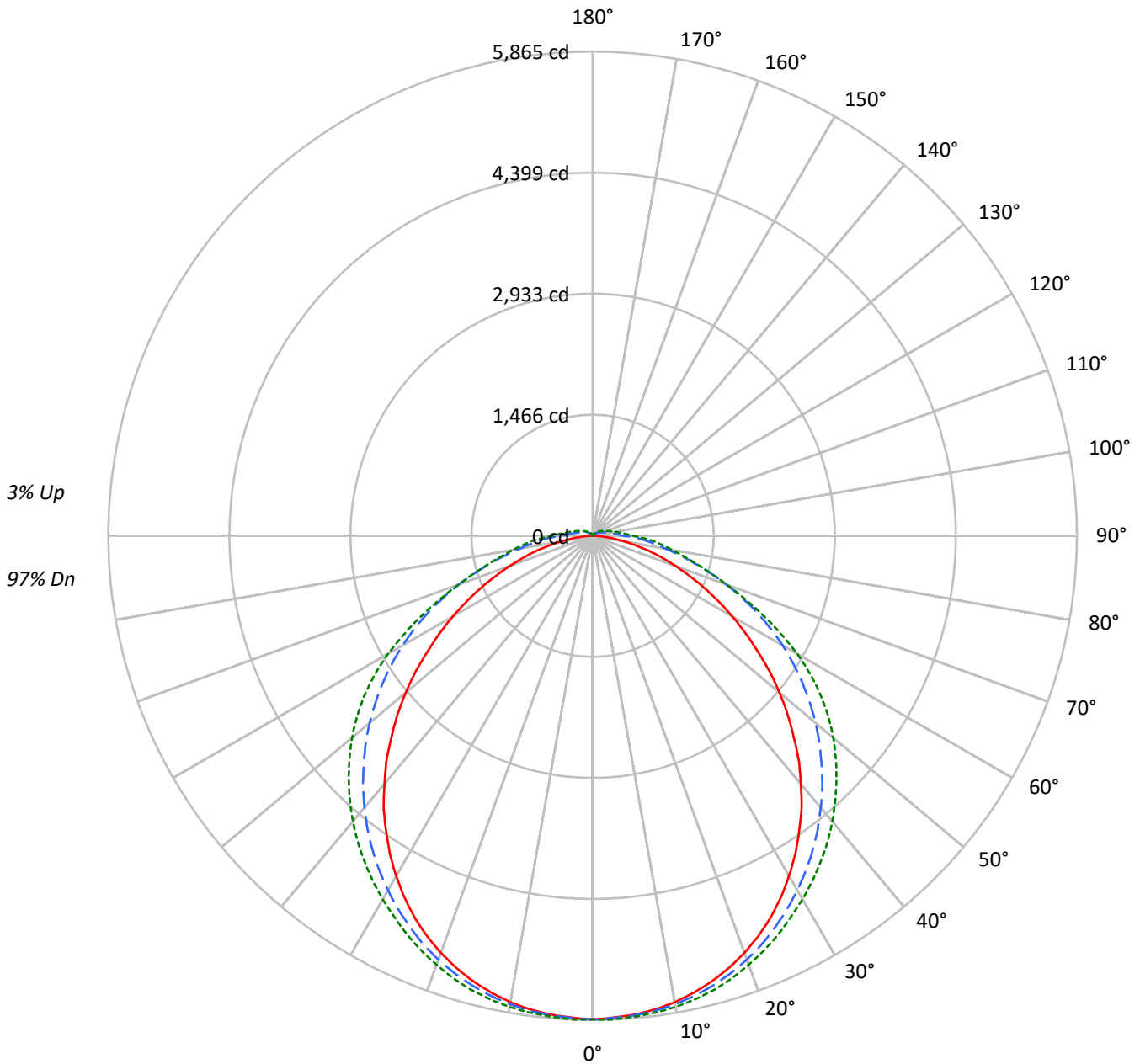
Lumens per Lamp: N/A
Luminaire Lumens: 17535.0 lumens
Efficiency: N/A
Efficacy: 167.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 105
Input Voltage (V): NR
Input Current (A_{in}): 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	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	99	99	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	82	82	82	82	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	68	68	68	68	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	58	58	58	58	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	50	50	50	50	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	43	43	43	43	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	38	38	38	38	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	34	34	34	34	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	30	30	30	30	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	27	27	27	27	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	25	25	25	25	25	25	25	25	23																

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10007	10007	10007
5°	9943	9908	9936
10°	9873	9816	9878
15°	9763	9707	9803
20°	9617	9575	9697
25°	9421	9411	9589
30°	9151	9233	9481
35°	8823	9045	9385
40°	8429	8827	9291
45°	7965	8591	9172
50°	7457	8351	9028
55°	6833	8059	8791
60°	6194	7715	8329
65°	5496	7276	7577
70°	4739	6719	6763
75°	3974	6074	6201
80°	3013	5595	6110
85°	1906	5764	6739



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	555.2	3.2
10°-20°	1592.7	9.1
20°-30°	2408.7	13.7
30°-40°	2891.6	16.5
40°-50°	2986.6	17.0
50°-60°	2687.0	15.3
60°-70°	2024.1	11.5
70°-80°	1222.2	7.0
80°-90°	597.8	3.4
90°-100°	251.6	1.4
100°-110°	143.6	0.8
110°-120°	84.3	0.5
120°-130°	47.7	0.3
130°-140°	25.1	0.1
140°-150°	12.2	0.1
150°-160°	4.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	4556.6	26.0
0°-40°	7448.2	42.5
0°-60°	13121.9	74.8
0°-90°	16965.9	96.8
90°-120°	479.6	2.7
90°-150°	564.5	3.2
90°-180°	569.0	3.2
0°-180°	17535.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5859	5859	5859	5859	5859	
5°	5822	5838	5830	5853	5846	553
15°	5587	5614	5640	5687	5693	1575
25°	5102	5158	5231	5313	5326	2347
35°	4362	4464	4647	4788	4816	2727
45°	3443	3616	3919	4133	4177	2658
55°	2439	2692	3100	3334	3374	2187
65°	1488	1792	2194	2303	2277	1479
75°	701	1007	1270	1303	1290	748
85°	146	386	637	724	737	169
90°	0	151	364	459	478	9
95°	7	102	272	347	360	6
105°	10	59	158	206	215	10
115°	12	33	98	130	136	12
125°	12	16	59	85	89	10
135°	10	13	30	52	57	8
145°	14	13	14	26	30	9
155°	14	16	14	13	14	4
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CATALOG NUMBER: OHBL-18SE-MFL-UNV-L850-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5859.0	5859.0	5859.0	5859.0	5859.0
2.5°	5841.8	5856.1	5847.5	5866.2	5864.7
5°	5821.7	5837.5	5830.3	5853.3	5846.1
7.5°	5787.3	5804.5	5803.1	5828.9	5826.0
10°	5737.1	5755.8	5761.5	5795.9	5795.9
12.5°	5668.3	5692.7	5707.0	5748.6	5750.0
15°	5586.6	5613.8	5639.6	5686.9	5692.7
17.5°	5487.6	5522.0	5557.9	5612.4	5619.5
20°	5375.8	5414.5	5463.2	5520.6	5529.2
22.5°	5246.7	5292.6	5355.7	5423.1	5433.1
25°	5101.9	5157.8	5230.9	5312.7	5325.6
27.5°	4937.0	5001.5	5100.5	5192.2	5203.7
30°	4757.8	4833.7	4957.1	5066.0	5084.7
32.5°	4568.5	4655.9	4807.9	4929.8	4955.6
35°	4362.0	4463.8	4647.3	4787.9	4816.5
37.5°	4158.4	4270.2	4478.1	4638.7	4673.1
40°	3920.3	4059.4	4297.5	4475.3	4516.9
42.5°	3696.6	3847.2	4116.8	4310.4	4350.5
45°	3442.8	3616.3	3918.9	4132.6	4177.0
47.5°	3204.8	3392.7	3728.2	3949.0	3994.9
50°	2953.9	3160.4	3524.6	3755.4	3802.8
52.5°	2702.9	2925.2	3313.8	3553.3	3597.7
55°	2439.1	2691.5	3100.1	3333.9	3374.0
57.5°	2193.9	2460.6	2880.7	3103.0	3127.4
60°	1951.6	2228.3	2657.1	2852.1	2860.7
62.5°	1715.0	2006.1	2427.6	2582.5	2571.0
65°	1488.4	1792.4	2193.9	2302.9	2277.1
67.5°	1270.5	1584.5	1954.4	2024.7	1990.3
70°	1064.0	1382.3	1722.1	1758.0	1726.4
72.5°	881.9	1190.2	1487.0	1517.1	1494.1
75°	701.2	1006.6	1270.5	1303.4	1290.5
77.5°	532.0	828.8	1071.1	1114.2	1117.0
80°	382.9	666.8	897.6	965.0	973.6
82.5°	252.4	517.6	752.8	838.8	851.7
85°	146.3	385.7	636.7	724.1	737.0
87.5°	63.1	278.2	511.9	590.8	606.5
90°	0.0	150.6	364.2	458.9	477.5
92.5°	4.3	124.8	312.6	398.6	414.4
95°	7.2	101.8	272.4	347.0	359.9
97.5°	8.6	86.0	236.6	302.6	315.5
100°	8.6	74.6	205.1	265.3	276.7
102.5°	8.6	66.0	179.2	232.3	242.3
105°	10.0	58.8	157.7	206.5	215.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	11.5	38.7	109.0	146.3	152.0
115°	11.5	33.0	97.5	130.5	136.2
117.5°	12.9	28.7	86.0	117.6	121.9
120°	12.9	24.4	76.0	104.7	110.4
122.5°	12.9	20.1	67.4	94.6	98.9
125°	11.5	15.8	58.8	84.6	88.9
127.5°	10.0	12.9	50.2	76.0	80.3
130°	10.0	11.5	43.0	67.4	71.7
132.5°	10.0	12.9	35.8	58.8	64.5
135°	10.0	12.9	30.1	51.6	57.4
137.5°	10.0	12.9	24.4	44.5	50.2
140°	11.5	12.9	20.1	37.3	43.0
142.5°	12.9	12.9	15.8	31.5	35.8
145°	14.3	12.9	14.3	25.8	30.1
147.5°	14.3	14.3	14.3	20.1	24.4
150°	14.3	15.8	14.3	15.8	20.1
152.5°	14.3	15.8	14.3	12.9	15.8
155°	14.3	15.8	14.3	12.9	14.3
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°	10.0	51.6	139.1	183.5	190.7
110°	10.0	45.9	123.3	163.5	170.6



(END OF REPORT)