

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: P829972

Luminaire Tested: **OHBL-18SE-MFL-UNV-L735-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829972
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-L735-CD
Description: 18000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 3500K LEDS AND MEDIUM FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

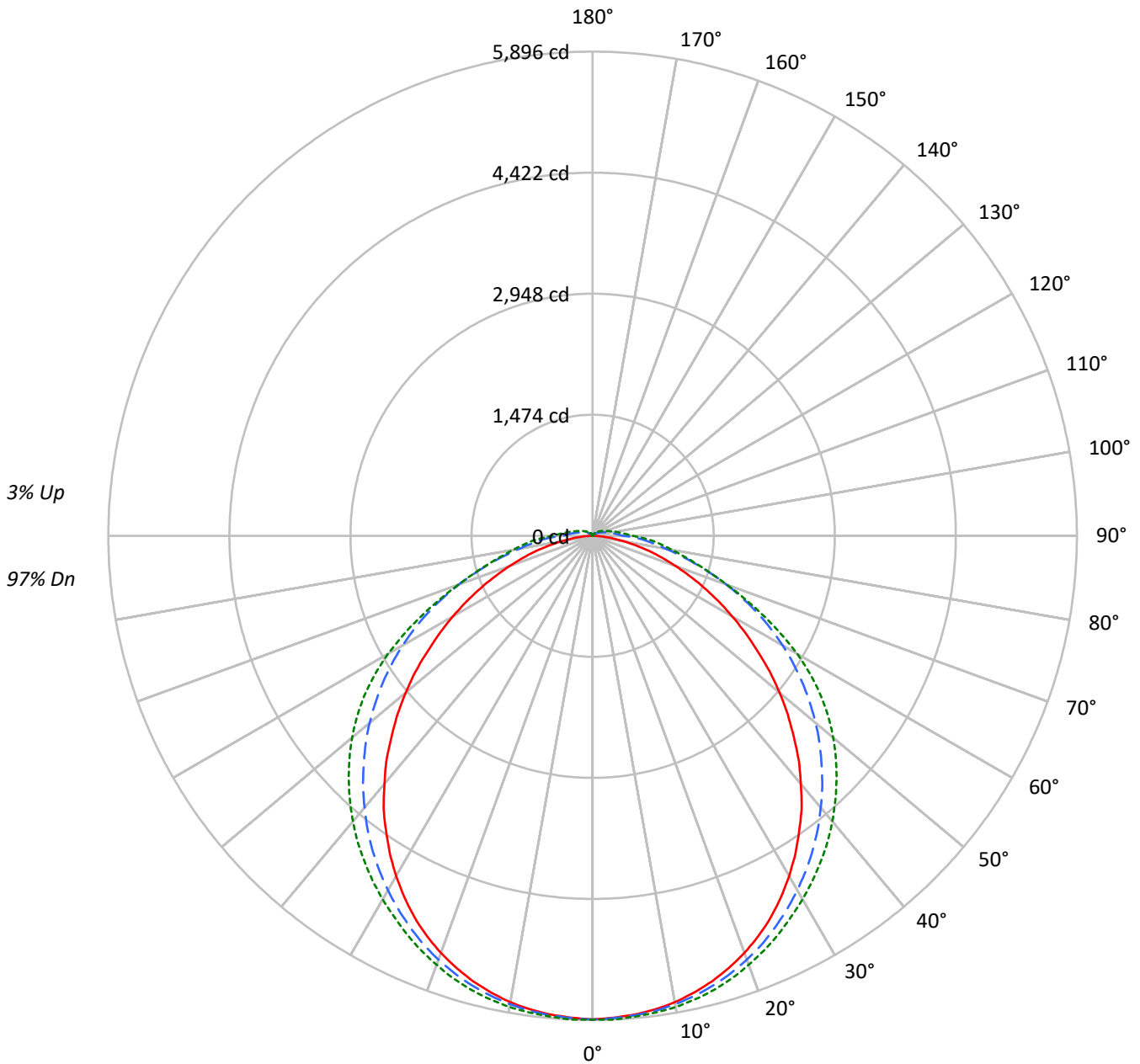
Lumens per Lamp: N/A
Luminaire Lumens: 17630.0 lumens
Efficiency: N/A
Efficacy: 167.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

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	0																
RCR																																					
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	97																		
1	107	102	98	94	104	100	96	92	95	91	88	90	88	85	86	84	82	82	80																		
2	98	89	82	76	95	87	80	75	83	77	73	79	74	71	75	72	68	68	66																		
3	89	78	70	63	86	76	69	62	73	66	61	70	64	59	67	62	58	58	56																		
4	81	69	60	53	79	68	59	53	65	57	52	62	56	51	59	54	50	50	47																		
5	75	62	53	46	72	60	52	46	58	50	45	56	49	44	53	48	43	43	41																		
6	69	56	47	40	67	54	46	40	52	45	39	50	44	39	48	43	38	38	36																		
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	44	38	34	34	32																		
8	60	46	37	31	58	45	37	31	43	36	31	42	35	31	41	35	30	30	28																		
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	37	32	27	27	25																		
10	52	39	31	26	51	38	31	26	37	30	25	36	29	25	35	29	25	25	23																		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10061	10061	10061
5°	9997	9962	9990
10°	9927	9869	9931
15°	9816	9760	9856
20°	9669	9627	9750
25°	9472	9462	9641
30°	9200	9283	9532
35°	8870	9094	9436
40°	8475	8875	9341
45°	8008	8637	9222
50°	7498	8397	9077
55°	6870	8102	8839
60°	6227	7757	8374
65°	5526	7316	7618
70°	4765	6756	6800
75°	3995	6107	6235
80°	3029	5626	6144
85°	1917	5795	6775



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	558.2	3.2
10°-20°	1601.3	9.1
20°-30°	2421.7	13.7
30°-40°	2907.3	16.5
40°-50°	3002.8	17.0
50°-60°	2701.6	15.3
60°-70°	2035.1	11.5
70°-80°	1228.8	7.0
80°-90°	601.0	3.4
90°-100°	253.0	1.4
100°-110°	144.4	0.8
110°-120°	84.8	0.5
120°-130°	48.0	0.3
130°-140°	25.3	0.1
140°-150°	12.3	0.1
150°-160°	4.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	4581.3	26.0
0°-40°	7488.6	42.5
0°-60°	13192.9	74.8
0°-90°	17057.8	96.8
90°-120°	482.2	2.7
90°-150°	567.6	3.2
90°-180°	572.0	3.2
0°-180°	17630.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5891	5891	5891	5891	5891	
5°	5853	5869	5862	5885	5878	556
15°	5617	5644	5670	5718	5724	1584
25°	5130	5186	5259	5342	5354	2359
35°	4386	4488	4672	4814	4843	2742
45°	3462	3636	3940	4155	4200	2672
55°	2452	2706	3117	3352	3392	2199
65°	1496	1802	2206	2315	2289	1487
75°	705	1012	1277	1310	1298	752
85°	147	388	640	728	741	170
90°	0	151	366	461	480	9
95°	7	102	274	349	362	6
105°	10	59	159	208	216	10
115°	12	33	98	131	137	12
125°	12	16	59	85	89	10
135°	10	13	30	52	58	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-L735-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5890.7	5890.7	5890.7	5890.7	5890.7
2.5°	5873.4	5887.9	5879.2	5898.0	5896.5
5°	5853.3	5869.1	5861.9	5885.0	5877.8
7.5°	5818.7	5836.0	5834.5	5860.5	5857.6
10°	5768.2	5786.9	5792.7	5827.3	5827.3
12.5°	5699.0	5723.5	5737.9	5779.7	5781.2
15°	5616.8	5644.2	5670.2	5717.7	5723.5
17.5°	5517.3	5551.9	5588.0	5642.8	5650.0
20°	5404.9	5443.8	5492.8	5550.5	5559.2
22.5°	5275.1	5321.3	5384.7	5452.5	5462.6
25°	5129.5	5185.8	5259.3	5341.5	5354.4
27.5°	4963.7	5028.6	5128.1	5220.4	5231.9
30°	4783.5	4859.9	4983.9	5093.5	5112.2
32.5°	4593.2	4681.2	4834.0	4956.5	4982.5
35°	4385.6	4488.0	4672.5	4813.8	4842.6
37.5°	4180.9	4293.4	4502.4	4663.9	4698.5
40°	3941.6	4081.4	4320.7	4499.5	4541.3
42.5°	3716.7	3868.1	4139.1	4333.7	4374.1
45°	3461.5	3635.9	3940.1	4154.9	4199.6
47.5°	3222.2	3411.0	3748.4	3970.4	4016.5
50°	2969.9	3177.5	3543.7	3775.8	3823.4
52.5°	2717.6	2941.0	3331.7	3572.5	3617.2
55°	2452.3	2706.1	3116.9	3351.9	3392.3
57.5°	2205.8	2473.9	2896.4	3119.8	3144.3
60°	1962.1	2240.4	2671.5	2867.5	2876.2
62.5°	1724.3	2016.9	2440.8	2596.5	2584.9
65°	1496.5	1802.1	2205.8	2315.4	2289.4
67.5°	1277.3	1593.1	1965.0	2035.7	2001.1
70°	1069.7	1389.8	1731.5	1767.5	1735.8
72.5°	886.6	1196.6	1495.0	1525.3	1502.2
75°	705.0	1012.1	1277.3	1310.5	1297.5
77.5°	534.9	833.3	1076.9	1120.2	1123.1
80°	384.9	670.4	902.5	970.3	978.9
82.5°	253.7	520.4	756.9	843.4	856.4
85°	147.1	387.8	640.1	728.1	741.0
87.5°	63.4	279.7	514.7	594.0	609.8
90°	0.0	151.4	366.2	461.3	480.1
92.5°	4.3	125.4	314.3	400.8	416.6
95°	7.2	102.4	273.9	348.9	361.9
97.5°	8.7	86.5	237.9	304.2	317.2
100°	8.7	75.0	206.2	266.7	278.2
102.5°	8.7	66.3	180.2	233.6	243.6
105°	10.1	59.1	158.6	207.6	216.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	11.5	38.9	109.6	147.1	152.8
115°	11.5	33.2	98.0	131.2	137.0
117.5°	13.0	28.8	86.5	118.2	122.5
120°	13.0	24.5	76.4	105.2	111.0
122.5°	13.0	20.2	67.8	95.2	99.5
125°	11.5	15.9	59.1	85.1	89.4
127.5°	10.1	13.0	50.5	76.4	80.7
130°	10.1	11.5	43.3	67.8	72.1
132.5°	10.1	13.0	36.0	59.1	64.9
135°	10.1	13.0	30.3	51.9	57.7
137.5°	10.1	13.0	24.5	44.7	50.5
140°	11.5	13.0	20.2	37.5	43.3
142.5°	13.0	13.0	15.9	31.7	36.0
145°	14.4	13.0	14.4	26.0	30.3
147.5°	14.4	14.4	14.4	20.2	24.5
150°	14.4	15.9	14.4	15.9	20.2
152.5°	14.4	15.9	14.4	13.0	15.9
155°	14.4	15.9	14.4	13.0	14.4
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°	10.1	51.9	139.8	184.5	191.7
110°	10.1	46.1	124.0	164.4	171.6



(END OF REPORT)