

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: P829996

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829996
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P472951)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-18SE-NL-UNV-L735-CD
Description: 18000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 3500K LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

Summary

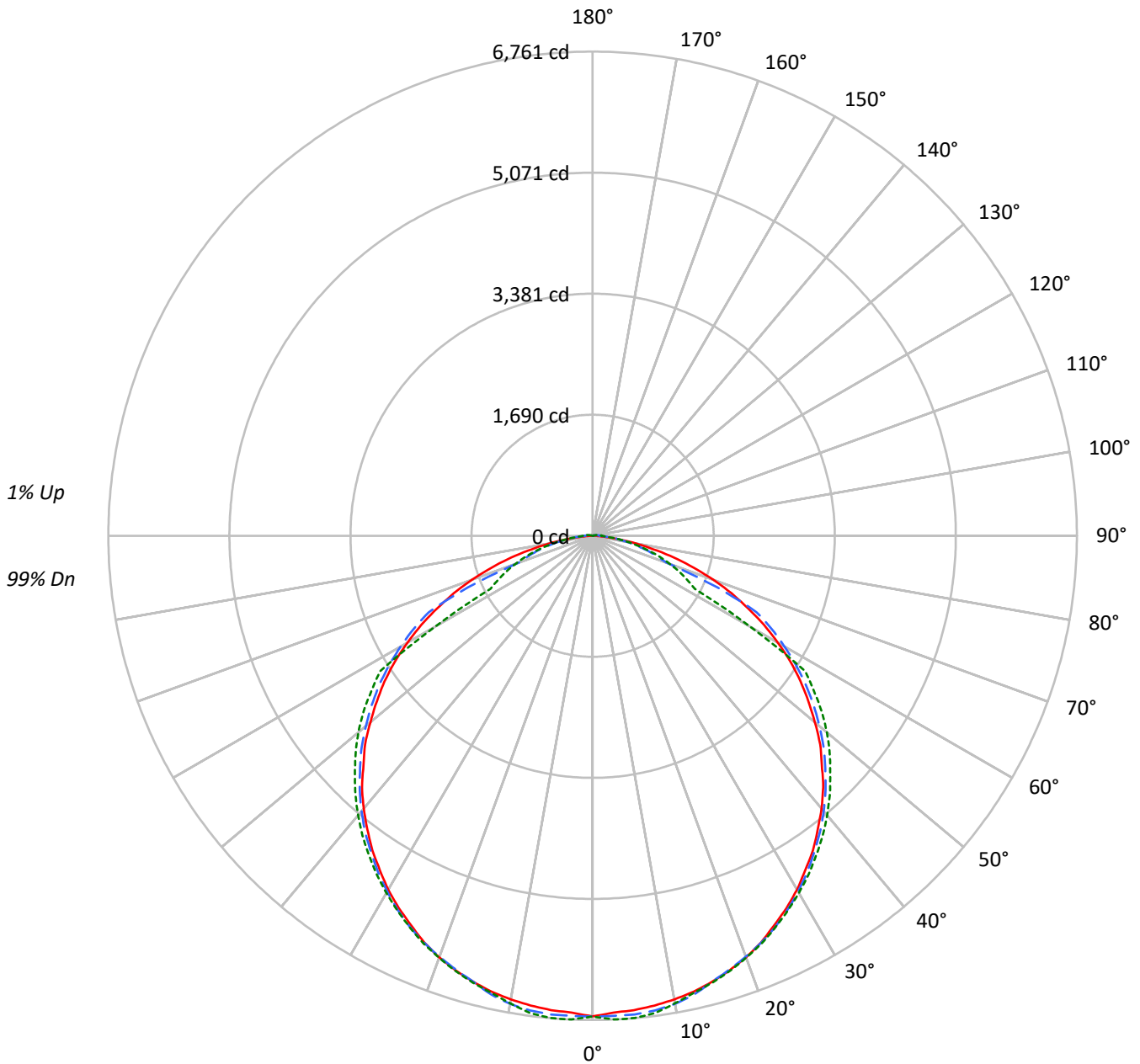
Lumens per Lamp: N/A
Luminaire Lumens: 18843.0 lumens
Efficiency: N/A
Efficacy: 179.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular (W 1.67' x L: 3.78' x H: 0')
CIE Type: Direct

Input Watts (W): 105
Input Voltage (V): NR
Input Current (Ain): 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

TEST NUMBER: P829996

CATALOG NUMBER: OHBL-18SE-NL-UNV-L735-CD

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102					99															
1	109	105	100	97	106	102	99	95	98	95	92	94	91	89	90	88	86					84															
2	99	92	85	79	97	90	84	78	86	81	76	83	78	75	80	76	73					71															
3	91	81	73	66	88	79	72	66	76	70	64	73	68	63	70	66	62					60															
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53					51															
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46					44															
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	45	41					39															
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36					34															
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32					30															
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29					27															
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26					25															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11463	11463	11463
5°	11400	11503	11589
10°	11403	11511	11497
15°	11401	11399	11424
20°	11385	11368	11396
25°	11308	11365	11374
30°	11255	11313	11357
35°	11182	11244	11349
40°	11086	11191	11356
45°	10926	11091	11333
50°	10761	10980	11343
55°	10555	10829	11218
60°	10202	10564	8734
65°	9652	10213	5878
70°	8927	5422	5704
75°	7787	5152	5448
80°	5988	4726	4993
85°	3022	4776	4891



TEST NUMBER: P829996

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	637.6	3.4
10°-20°	1825.6	9.7
20°-30°	2777.9	14.7
30°-40°	3377.5	17.9
40°-50°	3551.3	18.8
50°-60°	3242.7	17.2
60°-70°	2078.8	11.0
70°-80°	982.0	5.2
80°-90°	272.3	1.4
90°-100°	72.1	0.4
100°-110°	19.8	0.1
110°-120°	5.5	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	5241.1	27.8
0°-40°	8618.6	45.7
0°-60°	15412.6	81.8
0°-90°	18745.7	99.5
90°-120°	97.3	0.5
90°-150°	97.3	0.5
90°-180°	97.0	0.5
0°-180°	18843.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6711	6711	6711	6711	6711	
5°	6649	6675	6709	6746	6760	632
15°	6448	6496	6446	6456	6460	1820
25°	6000	6009	6031	6040	6035	2769
35°	5363	5331	5392	5458	5443	3352
45°	4523	4515	4592	4700	4692	3496
55°	3545	3518	3636	3758	3767	3161
65°	2388	2388	2527	1450	1454	2368
75°	1180	1202	781	822	826	1244
85°	154	196	244	264	250	228
90°	0	66	108	128	126	7
95°	4	34	78	105	105	2
105°	6	13	19	19	18	6
115°	6	8	12	8	1	4
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P829996

CATALOG NUMBER: OHBL-18SE-NL-UNV-L735-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6711.4	6711.4	6711.4	6711.4	6711.4
2.5°	6664.3	6686.7	6711.4	6743.2	6760.8
5°	6648.9	6674.9	6709.0	6745.6	6759.6
7.5°	6616.0	6652.4	6685.5	6711.4	6719.6
10°	6574.7	6618.4	6637.2	6634.8	6629.0
12.5°	6519.4	6565.4	6559.5	6532.4	6537.1
15°	6447.6	6495.8	6446.4	6455.8	6460.5
17.5°	6362.8	6409.9	6352.2	6371.0	6372.3
20°	6263.9	6299.2	6254.4	6269.8	6269.8
22.5°	6145.0	6169.7	6150.8	6161.4	6163.8
25°	6000.1	6009.4	6030.6	6040.1	6035.4
27.5°	5861.2	5849.4	5890.6	5912.9	5901.1
30°	5706.8	5688.0	5736.3	5772.8	5758.7
32.5°	5530.2	5518.5	5573.8	5617.3	5609.1
35°	5363.0	5331.2	5392.4	5458.4	5443.0
37.5°	5165.1	5146.3	5215.7	5285.3	5277.1
40°	4972.0	4940.2	5019.1	5101.5	5093.3
42.5°	4764.8	4727.0	4813.0	4912.0	4902.5
45°	4523.3	4515.0	4591.6	4699.9	4691.7
47.5°	4309.1	4267.8	4374.9	4479.7	4489.2
50°	4049.9	4034.6	4132.4	4259.6	4268.9
52.5°	3796.8	3786.2	3888.5	4016.9	4033.4
55°	3544.6	3517.6	3636.5	3757.9	3767.3
57.5°	3275.1	3246.8	3368.1	3500.0	3520.0
60°	2986.5	2959.4	3092.4	3215.0	2556.7
62.5°	2697.9	2679.1	2818.1	1996.1	1608.7
65°	2388.2	2388.2	2527.1	1449.7	1454.4
67.5°	2098.6	2079.8	1884.3	1302.4	1302.4
70°	1787.7	1794.8	1085.7	1141.2	1142.3
72.5°	1475.6	1501.5	937.5	982.1	984.5
75°	1180.0	1202.4	780.7	822.0	825.5
77.5°	866.8	666.5	627.6	659.6	660.7
80°	608.8	420.4	480.5	511.1	507.6
82.5°	355.6	294.4	352.1	374.5	373.3
85°	154.2	195.5	243.7	263.8	249.6
87.5°	49.4	121.3	151.9	163.7	162.5
90°	0.0	66.0	108.3	128.3	126.1
92.5°	0.0	51.7	94.3	117.8	118.9
95°	3.5	34.2	77.8	104.9	104.9
97.5°	2.4	24.7	55.4	82.4	84.8
100°	2.4	19.9	36.5	58.8	60.1
102.5°	5.9	16.5	22.3	37.7	38.9
105°	5.9	13.0	18.8	18.8	17.7



TEST NUMBER: P829996

CATALOG NUMBER: OHBL-18SE-NL-UNV-L735-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	7.1	9.5	13.0	9.5	1.1
115°	5.9	8.2	11.7	8.2	1.1
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
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°	5.9	11.7	16.5	10.6	3.5
110°	7.1	10.6	14.1	9.5	1.1



(END OF REPORT)