

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: P829984

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829984
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-18SE-N-UNV-L735-CD
Description: 18000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 3500K LEDS AND NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

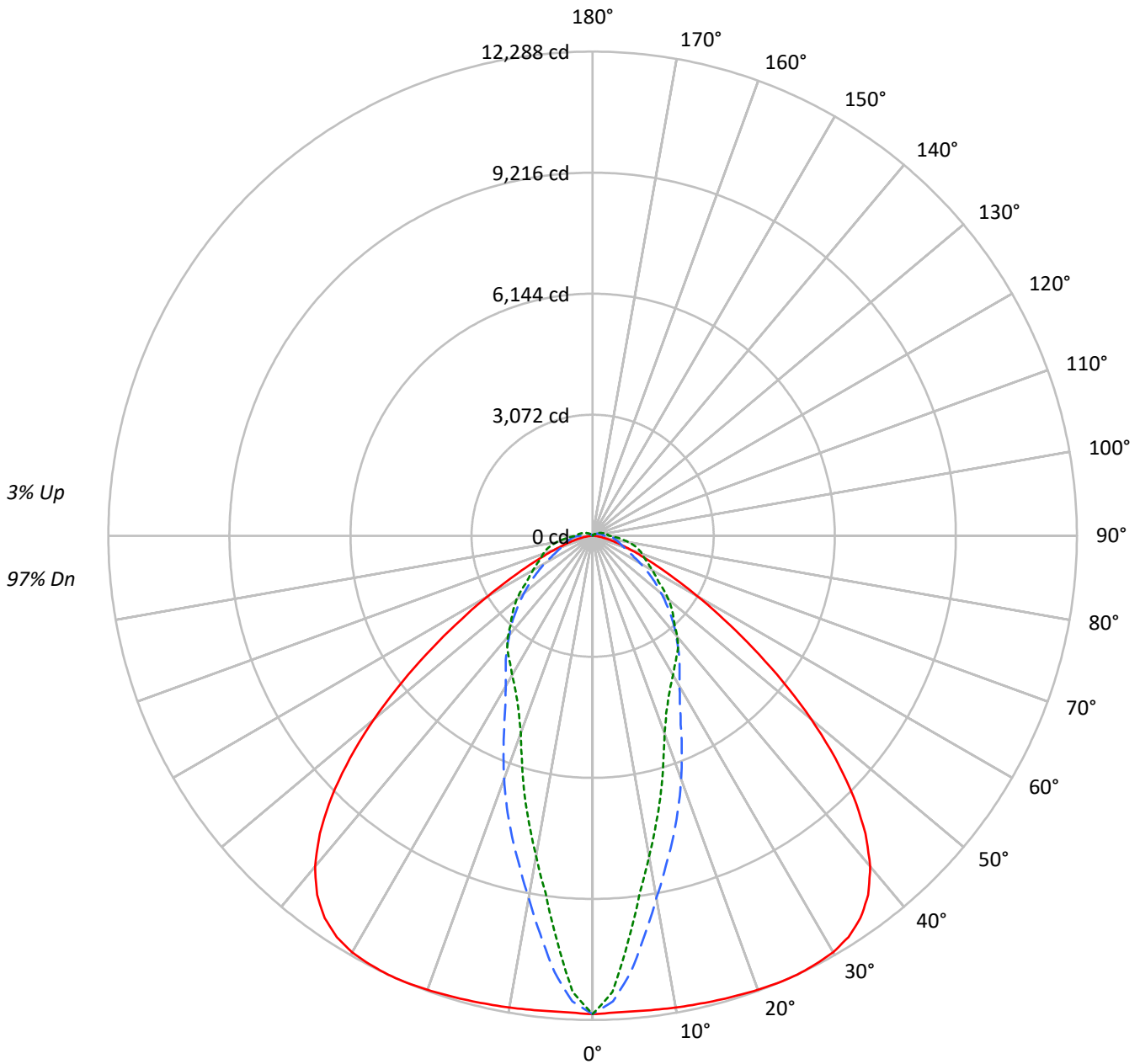
Lumens per Lamp: N/A
Luminaire Lumens: 17916.0 lumens
Efficiency: N/A
Efficacy: 170.6 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

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	99	97																	
1	109	104	100	97	106	102	98	95	97	94	91	92	90	88	88	86	85	85	85	82																	
2	100	93	86	81	97	90	85	80	86	82	78	83	79	75	79	76	73	73	73	71																	
3	92	83	75	69	90	81	74	69	78	72	67	74	70	65	72	67	64	64	64	62																	
4	85	74	66	60	83	73	66	60	70	64	59	67	62	57	65	60	56	56	56	54																	
5	79	67	59	53	77	66	59	53	64	57	52	62	56	51	59	54	50	50	50	48																	
6	74	62	53	47	72	60	53	47	58	52	46	56	50	46	55	49	45	45	45	43																	
7	69	56	48	43	67	55	48	42	54	47	42	52	46	41	50	45	41	41	41	39																	
8	65	52	44	39	63	51	44	39	50	43	38	48	42	38	47	41	37	37	37	35																	
9	61	48	41	35	59	47	40	35	46	40	35	45	39	35	44	38	34	34	34	32																	
10	57	45	37	33	56	44	37	32	43	37	32	42	36	32	41	35	32	32	32	30																	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20733	20733	20733
5°	20691	18881	17555
10°	20925	15904	14076
15°	21333	13602	11553
20°	21933	11501	9345
25°	22691	9520	8188
30°	23476	8201	7606
35°	23964	7474	7247
40°	23554	6751	6875
45°	21669	6101	6365
50°	18282	5390	5974
55°	13891	4721	5316
60°	9735	4049	5089
65°	6548	3487	4983
70°	4472	3273	5227
75°	3103	3375	5585
80°	2136	3738	5750
85°	1250	4675	6032



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1021.9	5.7
10°-20°	2403.9	13.4
20°-30°	3013.2	16.8
30°-40°	3197.3	17.8
40°-50°	2890.9	16.1
50°-60°	2096.1	11.7
60°-70°	1315.4	7.3
70°-80°	870.5	4.9
80°-90°	501.5	2.8
90°-100°	243.0	1.4
100°-110°	167.7	0.9
110°-120°	103.5	0.6
120°-130°	50.1	0.3
130°-140°	23.1	0.1
140°-150°	12.6	0.1
150°-160°	5.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
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0°-30°	6438.9	35.9
0°-40°	9636.2	53.8
0°-60°	14623.3	81.6
0°-90°	17310.6	96.6
90°-120°	514.1	2.9
90°-150°	599.9	3.3
90°-180°	605.0	3.4
0°-180°	17916.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12139	12139	12139	12139	12139	
5°	12115	11804	11111	10596	10329	###
15°	12207	9950	7902	7028	6709	3462
25°	12288	7693	5291	4696	4547	5677
35°	11848	5115	3840	3720	3719	7365
45°	9366	3240	2783	2850	2899	7135
55°	4959	2008	1816	1970	2040	4480
65°	1773	1165	1051	1347	1497	1845
75°	548	627	706	1096	1162	610
85°	96	260	516	719	660	115
90°	0	109	299	422	425	6
95°	5	76	263	358	374	4
105°	9	51	192	254	261	9
115°	13	36	129	162	165	12
125°	14	18	66	83	82	12
135°	12	14	29	45	45	9
145°	14	15	17	27	25	8
155°	14	17	18	20	17	4
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P829984

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12139.0	12139.0	12139.0	12139.0	12139.0
2.5°	12113.6	12044.3	11828.3	11696.6	11585.6
5°	12114.8	11804.0	11110.8	10595.5	10328.6
7.5°	12132.1	11441.2	10192.3	9440.2	9146.7
10°	12158.7	10991.8	9335.1	8533.3	8259.4
12.5°	12178.3	10485.8	8580.6	7756.9	7456.5
15°	12207.2	9949.7	7902.5	7027.9	6709.0
17.5°	12233.8	9444.8	7232.4	6318.5	5963.8
20°	12260.4	8900.7	6562.3	5620.7	5328.4
22.5°	12285.8	8326.5	5908.4	5078.8	4879.0
25°	12288.1	7693.3	5291.4	4696.4	4547.4
27.5°	12258.0	7037.1	4791.2	4376.4	4284.0
30°	12206.1	6400.5	4403.0	4145.3	4079.5
32.5°	12076.7	5751.2	4102.6	3922.3	3884.2
35°	11847.9	5114.6	3840.3	3720.2	3719.0
37.5°	11487.4	4549.7	3556.1	3535.3	3560.7
40°	10954.8	4055.2	3286.9	3342.4	3342.4
42.5°	10244.3	3625.4	3043.1	3099.7	3084.7
45°	9366.3	3239.5	2783.2	2850.2	2898.7
47.5°	8348.4	2899.9	2517.5	2646.9	2713.9
50°	7241.6	2576.4	2274.8	2440.1	2516.3
52.5°	6081.7	2277.2	2038.0	2227.5	2288.7
55°	4958.7	2008.0	1816.2	1969.8	2040.3
57.5°	3942.0	1751.5	1599.0	1744.5	1890.1
60°	3067.4	1530.8	1394.5	1602.4	1748.0
62.5°	2343.0	1334.4	1202.7	1469.6	1615.2
65°	1773.4	1164.6	1051.3	1347.1	1497.3
67.5°	1336.7	1017.8	933.5	1258.2	1404.9
70°	1004.0	875.7	838.8	1202.7	1334.4
72.5°	741.7	745.2	763.7	1154.2	1254.7
75°	547.6	627.3	705.9	1096.4	1162.3
77.5°	391.7	519.9	653.9	1027.1	1050.2
80°	271.5	424.0	599.6	935.8	916.2
82.5°	169.8	339.7	551.1	835.3	781.0
85°	95.9	259.9	516.4	718.6	659.7
87.5°	42.7	194.1	451.7	560.3	523.4
90°	0.0	108.6	299.2	421.7	425.2
92.5°	2.3	90.1	276.1	385.9	397.4
95°	4.6	76.3	263.4	358.2	374.3
97.5°	5.8	67.0	247.2	332.7	346.6
100°	6.9	60.1	227.6	306.2	317.7
102.5°	8.1	55.5	209.1	278.4	287.7
105°	9.2	50.8	191.8	254.2	261.1



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

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	11.6	39.3	144.4	182.5	188.3
115°	12.7	35.8	129.4	161.7	165.2
117.5°	13.9	31.2	113.2	142.1	143.3
120°	13.9	27.7	97.0	121.3	121.3
122.5°	13.9	23.1	80.9	100.5	99.4
125°	13.9	18.5	65.9	83.2	82.0
127.5°	12.7	15.0	53.1	69.3	68.2
130°	12.7	15.0	42.7	58.9	58.9
132.5°	11.6	13.9	34.7	50.8	50.8
135°	11.6	13.9	28.9	45.1	45.1
137.5°	11.6	15.0	24.3	39.3	39.3
140°	11.6	13.9	20.8	34.7	34.7
142.5°	12.7	13.9	18.5	30.0	30.0
145°	13.9	15.0	17.3	26.6	25.4
147.5°	13.9	16.2	17.3	23.1	22.0
150°	13.9	17.3	17.3	20.8	19.6
152.5°	13.9	17.3	17.3	19.6	18.5
155°	13.9	17.3	18.5	19.6	17.3
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°	9.2	47.4	175.6	227.6	235.7
110°	10.4	42.7	160.6	203.3	211.4



(END OF REPORT)