

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: P830572

Luminaire Tested: **OHBL-48SE-NL-UNV-L735-CD**

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P830572
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-48SE-NL-UNV-L735-CD
Description: 48000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 3500K LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

Summary

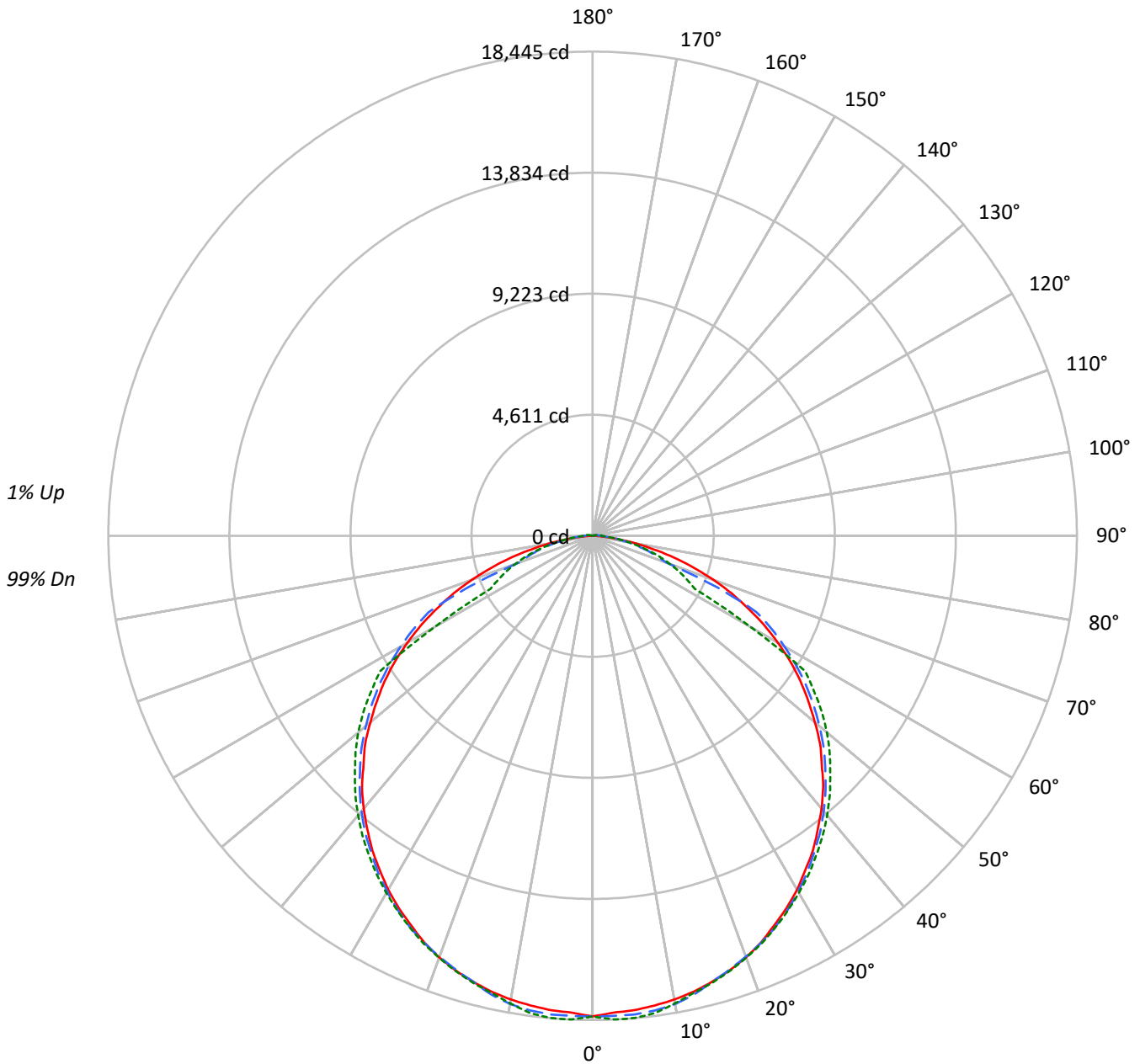
Lumens per Lamp: N/A
Luminaire Lumens: 51409.0 lumens
Efficiency: N/A
Efficacy: 178.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular (W 1.67' x L: 3.78' x H: 0')
CIE Type: Direct

Input Watts (W): 288.8
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	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°	31274	31274	31274
5°	31101	31383	31619
10°	31110	31406	31367
15°	31105	31099	31167
20°	31062	31015	31091
25°	30850	31007	31032
30°	30707	30866	30986
35°	30508	30676	30964
40°	30245	30531	30983
45°	29808	30259	30919
50°	29359	29958	30947
55°	28798	29544	30607
60°	27833	28821	23828
65°	26333	27865	16036
70°	24356	14792	15564
75°	21245	14057	14863
80°	16337	12895	13621
85°	8246	13032	13346



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1739.6	3.4
10°-20°	4980.9	9.7
20°-30°	7578.8	14.7
30°-40°	9214.8	17.9
40°-50°	9688.9	18.8
50°-60°	8847.1	17.2
60°-70°	5671.4	11.0
70°-80°	2679.1	5.2
80°-90°	742.9	1.4
90°-100°	196.8	0.4
100°-110°	53.9	0.1
110°-120°	14.9	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°	14299.3	27.8
0°-40°	23514.0	45.7
0°-60°	42050.0	81.8
0°-90°	51143.4	99.5
90°-120°	265.6	0.5
90°-150°	265.6	0.5
90°-180°	266.0	0.5
0°-180°	51409.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	18311	18311	18311	18311	18311	
5°	18140	18211	18304	18404	18442	###
15°	17591	17722	17588	17613	17626	4966
25°	16370	16396	16453	16479	16466	7554
35°	14632	14545	14712	14892	14850	9144
45°	12341	12318	12527	12823	12800	9539
55°	9671	9597	9922	10252	10278	8625
65°	6516	6516	6895	3955	3968	6460
75°	3219	3280	2130	2243	2252	3394
85°	421	533	665	720	681	622
90°	0	180	296	350	344	18
95°	10	93	212	286	286	5
105°	16	35	51	51	48	16
115°	16	22	32	22	3	11
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



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	18310.6	18310.6	18310.6	18310.6	18310.6
2.5°	18182.0	18243.2	18310.6	18397.3	18445.3
5°	18140.1	18210.9	18304.1	18403.8	18442.2
7.5°	18050.3	18149.7	18239.8	18310.6	18333.0
10°	17937.7	18056.8	18108.2	18101.7	18085.7
12.5°	17786.7	17912.2	17896.2	17822.1	17835.0
15°	17590.8	17722.4	17587.7	17613.2	17626.2
17.5°	17359.5	17488.1	17330.6	17381.9	17385.3
20°	17089.7	17186.0	17063.9	17105.7	17105.7
22.5°	16765.2	16832.6	16781.2	16810.1	16816.6
25°	16369.9	16395.5	16453.3	16479.1	16466.2
27.5°	15991.0	15958.7	16071.3	16132.2	16099.9
30°	15569.9	15518.5	15650.2	15749.8	15711.4
32.5°	15087.9	15055.9	15206.9	15325.6	15303.2
35°	14631.7	14545.0	14712.0	14891.9	14850.1
37.5°	14091.9	14040.5	14230.0	14419.8	14397.3
40°	13565.0	13478.2	13693.5	13918.4	13895.9
42.5°	12999.6	12896.5	13131.3	13401.3	13375.5
45°	12340.7	12318.3	12527.1	12822.7	12800.3
47.5°	11756.3	11643.7	11935.9	12222.0	12247.9
50°	11049.1	11007.6	11274.3	11621.3	11646.8
52.5°	10358.6	10329.7	10609.0	10959.3	11004.2
55°	9670.8	9597.0	9921.5	10252.5	10278.3
57.5°	8935.4	8858.2	9189.1	9549.0	9603.4
60°	8147.9	8074.1	8437.0	8771.4	6975.4
62.5°	7360.8	7309.4	7688.7	5446.0	4389.1
65°	6515.8	6515.8	6894.7	3955.1	3968.0
67.5°	5725.6	5674.2	5140.9	3553.3	3553.3
70°	4877.2	4896.6	2962.1	3113.5	3116.6
72.5°	4025.8	4096.6	2557.7	2679.5	2685.9
75°	3219.3	3280.5	2130.1	2242.7	2252.2
77.5°	2364.8	1818.5	1712.4	1799.5	1802.5
80°	1661.0	1147.0	1311.0	1394.3	1384.8
82.5°	970.1	803.1	960.6	1021.8	1018.4
85°	420.8	533.4	665.0	719.8	681.0
87.5°	134.7	331.0	414.3	446.6	443.2
90°	0.0	179.9	295.6	350.0	343.9
92.5°	0.0	141.2	257.2	321.5	324.5
95°	9.5	93.2	212.3	286.1	286.1
97.5°	6.5	67.4	151.0	224.8	231.3
100°	6.5	54.4	99.7	160.6	164.0
102.5°	16.0	44.9	60.9	102.7	106.1
105°	16.0	35.4	51.4	51.4	48.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	19.4	25.9	35.4	25.9	3.1
115°	16.0	22.5	32.0	22.5	3.1
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°	16.0	32.0	44.9	28.9	9.5
110°	19.4	28.9	38.4	25.9	3.1



(END OF REPORT)