

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: P830584

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830584
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-48SE-W-UNV-L735-CD
Description: 48000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 3500K LEDS AND WIDE LENS
Light Source: -
Ballast/Driver: -

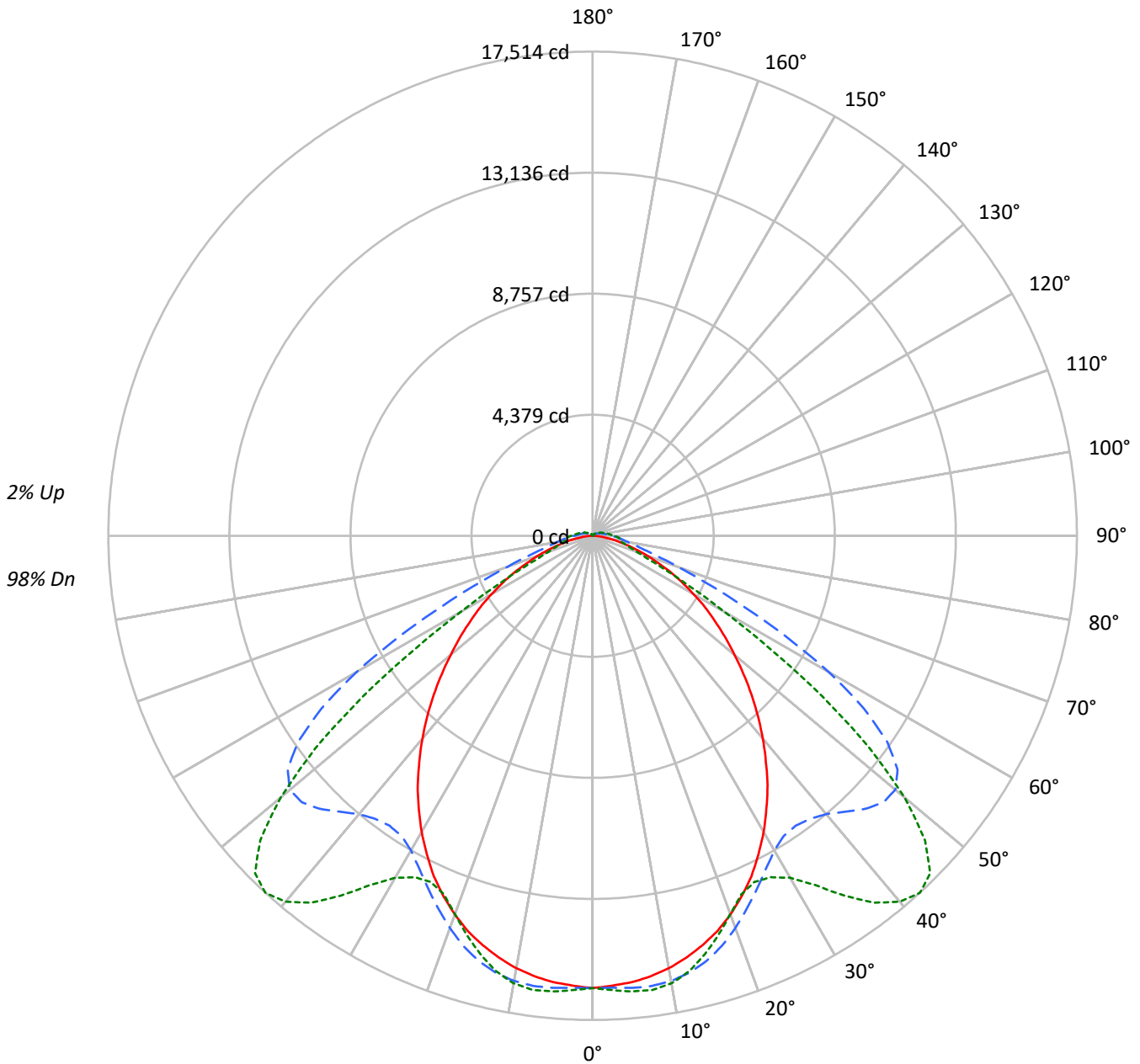
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48984.0 lumens
Efficiency: N/A
Efficacy: 169.6 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
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					20	
RC	80					70					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	110	110	110	105	105	105	100	100	100	100	100	100	98	
1	109	104	100	96	106	102	98	95	97	94	91	93	90	88	89	87	85	85	85	85	83	
2	99	91	85	79	96	89	83	78	85	80	76	82	77	74	78	75	72	72	72	72	70	
3	90	80	72	66	88	78	71	65	75	69	64	72	67	62	69	65	61	61	61	61	59	
4	83	71	62	56	80	69	61	55	67	60	54	64	58	53	62	57	52	52	52	52	50	
5	76	63	54	48	74	62	54	47	60	52	47	57	51	46	55	50	45	45	45	45	43	
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	50	44	40	40	40	40	38	
7	65	51	43	36	63	50	42	36	49	41	36	47	40	35	45	40	35	35	35	35	33	
8	60	47	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	31	31	31	29	
9	56	43	34	29	55	42	34	29	41	34	28	39	33	28	38	32	28	28	28	28	26	
10	52	39	31	26	51	39	31	26	38	31	26	36	30	26	35	30	25	25	25	25	24	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	27942	27942	27942
5°	27682	27903	28124
10°	27335	27861	28020
15°	26801	27400	26988
20°	26071	26458	25534
25°	25093	25318	24888
30°	23793	24470	26627
35°	22310	24922	30964
40°	20589	26991	35547
45°	18789	30616	37907
50°	16912	33854	34952
55°	15148	33811	26413
60°	13352	28603	15929
65°	11456	19749	9479
70°	9307	12766	6678
75°	7081	9147	5970
80°	5082	8031	6336
85°	3449	8819	8811



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1563.4	3.2
10°-20°	4427.0	9.0
20°-30°	6478.1	13.2
30°-40°	8413.2	17.2
40°-50°	10273.5	21.0
50°-60°	9047.5	18.5
60°-70°	4714.7	9.6
70°-80°	2021.8	4.1
80°-90°	971.0	2.0
90°-100°	456.2	0.9
100°-110°	283.5	0.6
110°-120°	167.7	0.3
120°-130°	91.1	0.2
130°-140°	45.7	0.1
140°-150°	22.0	0.0
150°-160°	7.7	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	12468.4	25.5
0°-40°	20881.6	42.6
0°-60°	40202.6	82.1
0°-90°	47910.1	97.8
90°-120°	907.4	1.9
90°-150°	1066.2	2.2
90°-180°	1074.0	2.2
0°-180°	48984.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16360	16360	16360	16360	16360	
5°	16208	16332	16420	16564	16547	###
15°	15336	15767	15919	15799	15672	4318
25°	13589	14316	14073	13808	13822	6236
35°	11030	12195	12805	14934	15890	6875
45°	8122	10218	13967	16910	17263	6262
55°	5407	8951	13007	11404	10137	4853
65°	3102	6202	5954	3311	2848	3070
75°	1250	2901	1913	1310	1242	1362
85°	265	1034	974	953	964	295
90°	4	374	642	734	752	18
95°	7	219	512	600	618	5
105°	14	124	332	399	406	15
115°	21	71	205	251	258	22
125°	25	35	120	155	159	21
135°	21	21	56	95	99	16
145°	28	21	25	46	53	17
155°	28	28	21	21	21	9
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-48SE-W-UNV-L735-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	16359.8	16359.8	16359.8	16359.8	16359.8
2.5°	16289.2	16359.8	16363.3	16462.1	16451.5
5°	16208.0	16331.5	16419.8	16564.5	16546.8
7.5°	16073.9	16268.0	16423.3	16582.1	16568.0
10°	15883.3	16148.0	16352.7	16483.3	16440.9
12.5°	15636.2	15985.6	16186.8	16215.0	16133.9
15°	15336.2	15766.8	15918.6	15798.6	15671.5
17.5°	14997.3	15502.1	15555.0	15293.8	15135.0
20°	14573.8	15149.1	15096.2	14736.1	14559.7
22.5°	14104.3	14760.8	14591.4	14213.8	14044.3
25°	13589.0	14316.1	14072.6	13807.9	13822.0
27.5°	12985.5	13811.4	13574.9	13694.9	13920.8
30°	12371.3	13281.9	13137.2	13836.1	14280.8
32.5°	11697.1	12738.4	12869.0	14249.1	14976.2
35°	11030.0	12194.8	12805.4	14933.8	15890.3
37.5°	10292.4	11644.2	12907.8	15724.4	16726.8
40°	9575.8	11107.7	13140.8	16433.9	17281.0
42.5°	8845.2	10627.7	13532.5	16853.9	17513.9
45°	8121.6	10218.2	13966.7	16910.4	17263.3
47.5°	7398.1	9872.3	14266.7	16462.1	16299.8
50°	6699.2	9565.3	14287.9	15385.6	14722.0
52.5°	6046.2	9282.9	13899.6	13670.2	12639.5
55°	5407.4	8951.1	13006.6	11404.2	10137.1
57.5°	4825.0	8492.3	11630.1	8968.7	7585.1
60°	4207.3	7871.0	9851.2	6561.6	5470.9
62.5°	3639.0	7098.1	7856.9	4567.3	3932.0
65°	3102.5	6201.5	5954.5	3310.8	2848.4
67.5°	2534.3	5273.2	4394.4	2414.3	2117.8
70°	2089.5	4412.0	3272.0	1877.8	1704.8
72.5°	1634.2	3593.1	2446.0	1524.8	1429.5
75°	1249.5	2901.3	1913.1	1309.5	1242.4
77.5°	921.2	2294.2	1538.9	1157.7	1094.2
80°	645.9	1807.2	1288.3	1034.2	1009.5
82.5°	434.1	1397.7	1097.7	984.8	988.3
85°	264.7	1034.2	974.2	953.0	963.6
87.5°	127.1	734.2	836.5	868.3	878.9
90°	3.5	374.1	642.4	734.2	751.8
92.5°	0.0	285.9	564.7	656.5	674.2
95°	7.1	218.8	511.8	600.0	617.7
97.5°	7.1	180.0	458.8	550.6	561.2
100°	10.6	155.3	409.4	497.7	508.3
102.5°	10.6	137.7	367.1	444.7	451.8
105°	14.1	123.5	331.8	398.8	405.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	21.2	84.7	233.0	282.4	289.4
115°	21.2	70.6	204.7	250.6	257.7
117.5°	24.7	63.5	180.0	222.4	225.9
120°	24.7	52.9	155.3	197.7	201.2
122.5°	24.7	42.4	137.7	176.5	180.0
125°	24.7	35.3	120.0	155.3	158.8
127.5°	21.2	24.7	102.4	137.7	141.2
130°	21.2	21.2	84.7	120.0	127.1
132.5°	21.2	21.2	70.6	105.9	112.9
135°	21.2	21.2	56.5	95.3	98.8
137.5°	21.2	21.2	45.9	81.2	88.2
140°	21.2	21.2	35.3	70.6	74.1
142.5°	24.7	21.2	31.8	60.0	63.5
145°	28.2	21.2	24.7	45.9	52.9
147.5°	28.2	24.7	24.7	38.8	42.4
150°	28.2	28.2	21.2	28.2	35.3
152.5°	28.2	28.2	21.2	21.2	28.2
155°	28.2	28.2	21.2	21.2	21.2
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°	17.6	109.4	296.5	356.5	363.6
110°	17.6	95.3	261.2	317.7	324.7



(END OF REPORT)