

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: P830855

Luminaire Tested: **OHBL-90SE-N-UNV-L930-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830855
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-90SE-N-UNV-L930-CD
Description: 90000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 3000K LEDS AND NARROW LENS
Light Source: -
Ballast/Driver: -

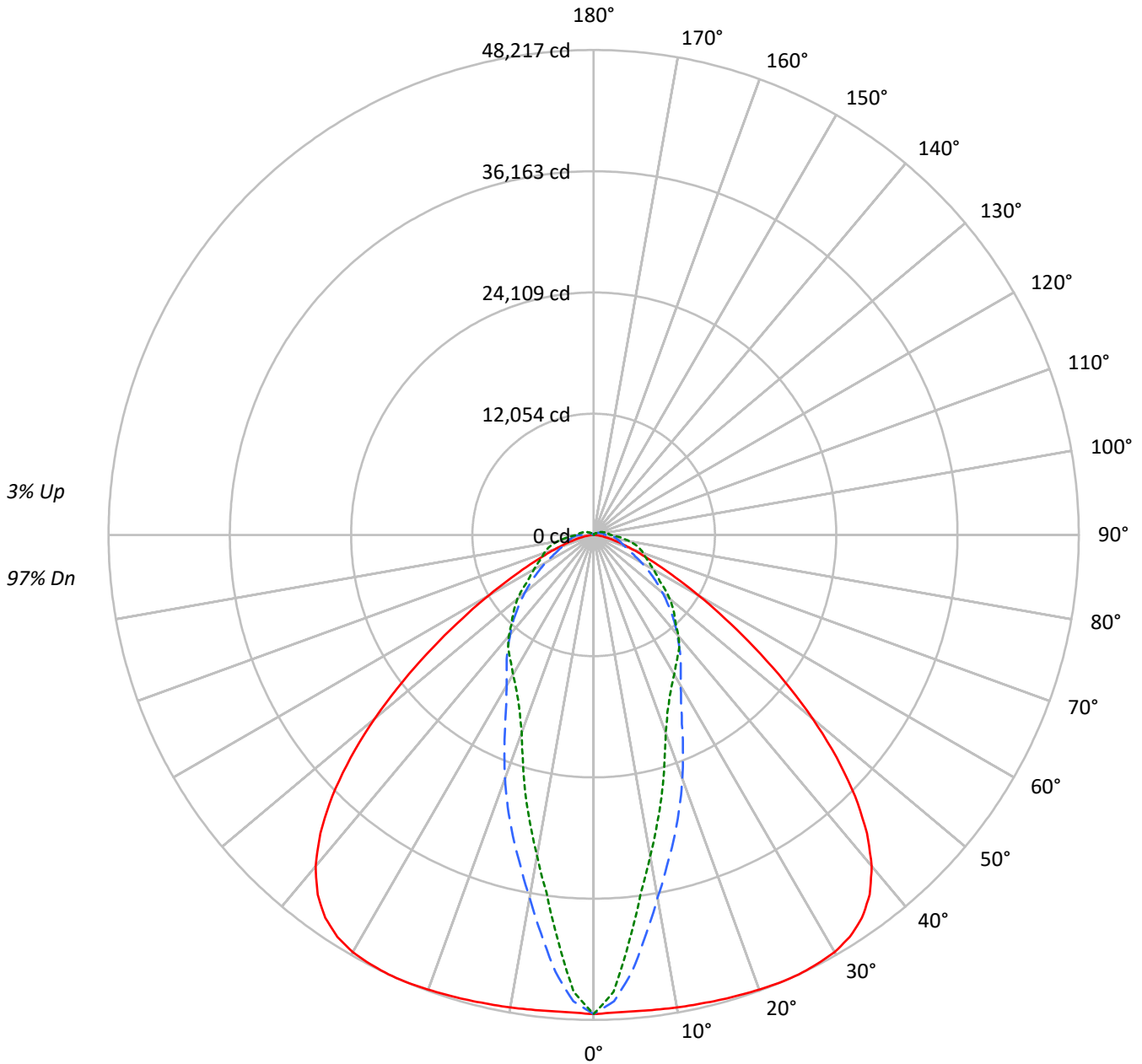
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 70300.0 lumens
Efficiency: N/A
Efficacy: 132.9 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 529
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

TEST NUMBER: P830855
CATALOG NUMBER: OHBL-90SE-N-UNV-L930-CD

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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	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	85	82
2	100	93	86	81	97	90	85	80	86	82	78	83	79	75	79	76	73	73	73	73	71
3	92	83	75	69	90	81	74	69	78	72	67	74	70	65	72	67	64	64	64	64	62
4	85	74	66	60	83	73	66	60	70	64	59	67	62	57	65	60	56	56	56	56	54
5	79	67	59	53	77	66	59	53	64	57	52	62	56	51	59	54	50	50	50	50	48
6	74	62	53	47	72	60	53	47	58	52	46	56	50	46	55	49	45	45	45	45	43
7	69	56	48	43	67	55	48	42	54	47	42	52	46	41	50	45	41	41	41	41	39
8	65	52	44	39	63	51	44	39	50	43	38	48	42	38	47	41	37	37	37	37	35
9	61	48	41	35	59	47	40	35	46	40	35	45	39	35	44	38	34	34	34	34	32
10	57	45	37	33	56	44	37	32	43	37	32	42	36	32	41	35	32	32	32	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	75329	75329	75329
5°	75175	68631	63822
10°	76024	57837	51208
15°	77509	49487	42058
20°	79686	41863	34040
25°	82442	34668	29847
30°	85291	29882	27748
35°	87066	27248	26458
40°	85576	24629	25123
45°	78726	22272	23283
50°	66421	19693	21878
55°	50470	17266	19495
60°	35369	14825	18696
65°	23791	12787	18343
70°	16248	12025	19300
75°	11275	12438	20709
80°	7762	13841	21466
85°	4540	17469	22817



TEST NUMBER: P830855

CATALOG NUMBER: OHBL-90SE-N-UNV-L930-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4009.6	5.7
10°-20°	9432.4	13.4
20°-30°	11823.4	16.8
30°-40°	12546.0	17.8
40°-50°	11343.5	16.1
50°-60°	8224.8	11.7
60°-70°	5161.5	7.3
70°-80°	3415.7	4.9
80°-90°	1967.8	2.8
90°-100°	953.3	1.4
100°-110°	658.0	0.9
110°-120°	406.0	0.6
120°-130°	196.7	0.3
130°-140°	90.4	0.1
140°-150°	49.4	0.1
150°-160°	21.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	25265.4	35.9
0°-40°	37811.3	53.8
0°-60°	57379.7	81.6
0°-90°	67924.6	96.6
90°-120°	2017.4	2.9
90°-150°	2353.9	3.3
90°-180°	2375.0	3.4
0°-180°	70300.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	47632	47632	47632	47632	47632	
5°	47537	46317	43597	41575	40528	###
15°	47900	39041	31008	27576	26325	13584
25°	48217	30188	20763	18428	17843	22275
35°	46490	20069	15069	14597	14593	28900
45°	36752	12712	10921	11184	11374	27997
55°	19457	7879	7126	7729	8006	17580
65°	6959	4570	4125	5286	5875	7241
75°	2149	2462	2770	4302	4561	2395
85°	376	1020	2026	2820	2588	451
90°	0	426	1174	1655	1668	24
95°	18	299	1034	1405	1469	16
105°	36	200	752	997	1024	37
115°	50	140	508	635	648	49
125°	54	72	258	326	322	47
135°	45	54	113	177	177	36
145°	54	59	68	104	100	33
155°	54	68	72	77	68	17
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P830855

CATALOG NUMBER: OHBL-90SE-N-UNV-L930-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	47632.0	47632.0	47632.0	47632.0	47632.0
2.5°	47532.3	47260.3	46412.5	45895.7	45460.5
5°	47536.8	46317.3	43597.3	41575.4	40528.2
7.5°	47604.8	44893.9	39993.3	37042.1	35890.6
10°	47709.1	43130.4	36629.5	33483.4	32409.0
12.5°	47786.1	41144.8	33669.3	30437.0	29258.3
15°	47899.5	39041.3	31008.2	27576.4	26325.2
17.5°	48003.7	37060.2	28378.8	24792.9	23401.2
20°	48108.0	34925.0	25749.5	22054.8	20907.8
22.5°	48207.7	32671.9	23183.6	19928.6	19144.4
25°	48216.8	30187.6	20762.8	18428.1	17843.3
27.5°	48098.9	27612.7	18799.8	17172.4	16809.7
30°	47894.9	25114.8	17276.6	16265.7	16007.3
32.5°	47387.2	22567.1	16098.0	15390.8	15241.2
35°	46489.6	20069.2	15068.9	14597.4	14592.9
37.5°	45075.2	17852.4	13953.7	13872.1	13971.8
40°	42985.3	15912.1	12897.4	13115.0	13115.0
42.5°	40197.3	14225.7	11940.9	12163.0	12104.1
45°	36751.9	12711.5	10920.9	11183.8	11374.2
47.5°	32758.0	11378.7	9878.2	10385.9	10648.9
50°	28415.1	10109.4	8926.2	9574.5	9873.7
52.5°	23863.6	8935.2	7996.8	8740.3	8980.6
55°	19457.2	7879.0	7126.4	7729.4	8005.9
57.5°	15467.8	6872.6	6274.2	6845.4	7416.6
60°	12036.1	6006.7	5471.8	6287.8	6859.0
62.5°	9193.7	5236.0	4719.2	5766.4	6337.6
65°	6958.7	4569.6	4125.4	5285.9	5875.2
67.5°	5245.1	3993.9	3663.0	4936.8	5512.6
70°	3939.5	3436.3	3291.2	4719.2	5236.0
72.5°	2910.4	2924.0	2996.6	4528.8	4923.2
75°	2148.8	2461.6	2769.9	4302.2	4560.6
77.5°	1536.8	2040.0	2565.9	4030.2	4120.8
80°	1065.3	1663.7	2352.8	3672.0	3595.0
82.5°	666.4	1332.8	2162.4	3277.6	3064.6
85°	376.3	1020.0	2026.4	2819.7	2588.5
87.5°	167.7	761.6	1772.5	2198.7	2053.6
90°	0.0	426.1	1174.1	1654.7	1668.3
92.5°	9.1	353.6	1083.5	1514.1	1559.5
95°	18.1	299.2	1033.6	1405.3	1468.8
97.5°	22.7	262.9	970.1	1305.6	1360.0
100°	27.2	235.7	893.1	1201.3	1246.7
102.5°	31.7	217.6	820.5	1092.5	1128.8
105°	36.3	199.5	752.5	997.3	1024.5



TEST NUMBER: P830855

CATALOG NUMBER: OHBL-90SE-N-UNV-L930-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	45.3	154.1	566.7	716.3	738.9
115°	49.9	140.5	507.7	634.7	648.3
117.5°	54.4	122.4	444.3	557.6	562.1
120°	54.4	108.8	380.8	476.0	476.0
122.5°	54.4	90.7	317.3	394.4	389.9
125°	54.4	72.5	258.4	326.4	321.9
127.5°	49.9	58.9	208.5	272.0	267.5
130°	49.9	58.9	167.7	231.2	231.2
132.5°	45.3	54.4	136.0	199.5	199.5
135°	45.3	54.4	113.3	176.8	176.8
137.5°	45.3	58.9	95.2	154.1	154.1
140°	45.3	54.4	81.6	136.0	136.0
142.5°	49.9	54.4	72.5	117.9	117.9
145°	54.4	58.9	68.0	104.3	99.7
147.5°	54.4	63.5	68.0	90.7	86.1
150°	54.4	68.0	68.0	81.6	77.1
152.5°	54.4	68.0	68.0	77.1	72.5
155°	54.4	68.0	72.5	77.1	68.0
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°	36.3	185.9	689.1	893.1	924.8
110°	40.8	167.7	630.1	797.9	829.6



(END OF REPORT)