

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: P830821

Luminaire Tested: **OHBL-90SE-A-UNV-L940-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830821
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-200-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-90SE-A-UNV-L940-CD
Description: 90000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 4000K LEDS AND AISLE LENS
Light Source: -
Ballast/Driver: -

Summary

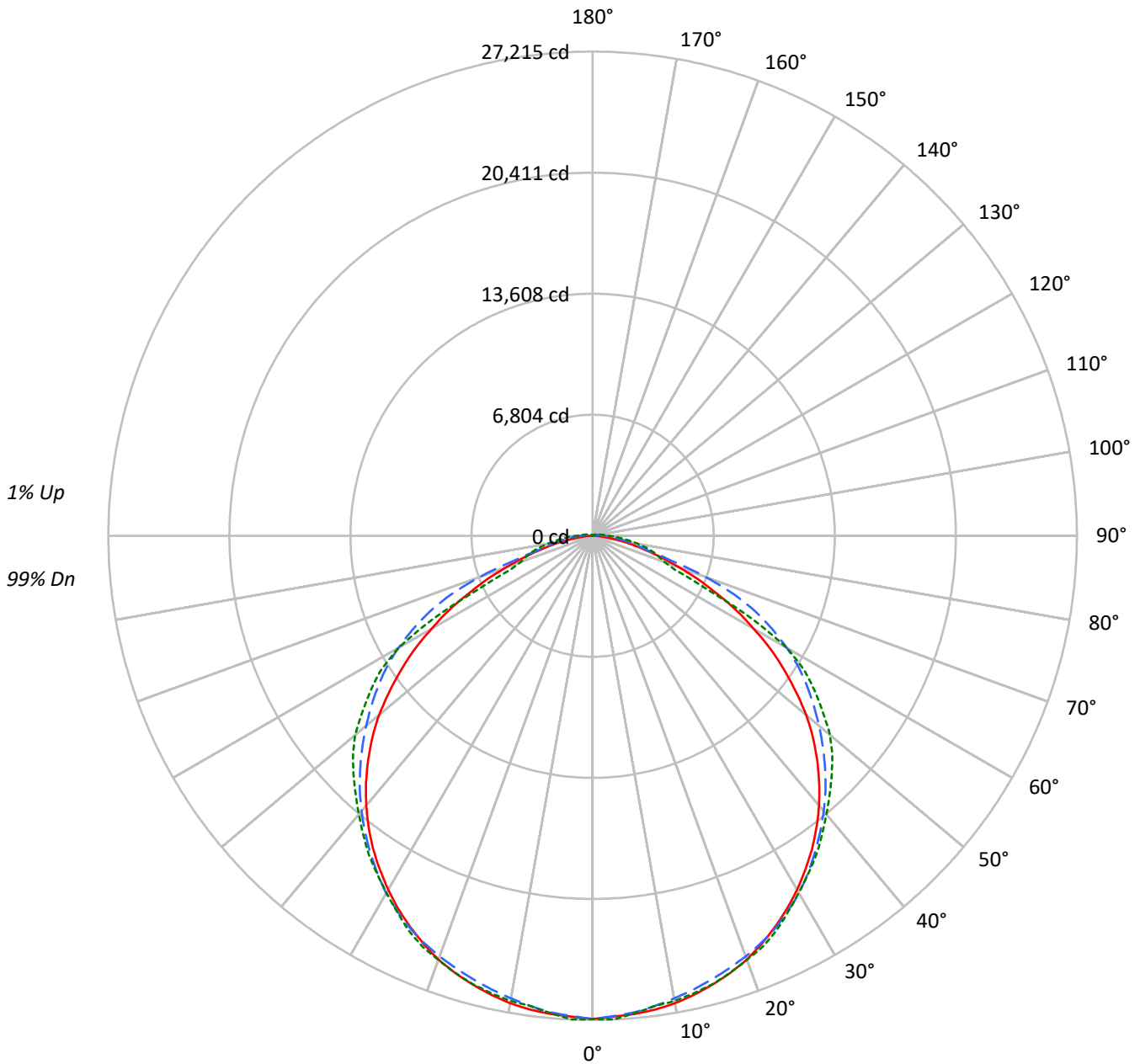
Lumens per Lamp: N/A
Luminaire Lumens: 76767.0 lumens
Efficiency: N/A
Efficacy: 145.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

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

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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	110	110	110	106	106	106	101	101	101				99																
1	109	104	100	96	106	102	98	95	97	94	91	93	91	88	90	87	86				83																
2	99	91	84	79	96	89	83	78	85	80	76	82	78	74	79	75	72				70																
3	91	80	72	66	88	79	71	65	75	69	64	72	67	63	70	65	61				59																
4	83	71	62	56	81	70	62	55	67	60	54	65	59	54	62	57	53				51																
5	76	64	55	48	74	62	54	48	60	53	47	58	52	46	56	50	46				44																
6	70	57	48	42	68	56	48	42	54	47	41	52	46	41	51	45	40				38																
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36				34																
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	42	36	32				30																
9	57	43	35	30	55	43	35	29	41	34	29	40	34	29	39	33	29				27																
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	36	30	26				24																

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	42953	42953	42953
5°	42672	42329	42418
10°	42516	41688	41947
15°	42246	41209	41666
20°	41976	40907	41297
25°	41470	40602	40932
30°	40919	40123	40157
35°	40260	39362	39730
40°	39404	38576	39149
45°	38218	37667	38892
50°	36609	36632	38583
55°	34054	35613	37143
60°	30709	34123	34339
65°	26343	31357	21763
70°	21218	24478	15778
75°	15908	14531	16014
80°	11073	12082	15289
85°	6302	11071	14331



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2561.0	3.3
10°-20°	7343.6	9.6
20°-30°	11216.0	14.6
30°-40°	13608.9	17.7
40°-50°	14263.4	18.6
50°-60°	12924.8	16.8
60°-70°	8665.5	11.3
70°-80°	3891.2	5.1
80°-90°	1412.1	1.8
90°-100°	425.0	0.6
100°-110°	200.5	0.3
110°-120°	100.5	0.1
120°-130°	55.4	0.1
130°-140°	38.1	0.0
140°-150°	25.6	0.0
150°-160°	19.1	0.0
160°-170°	12.2	0.0
170°-180°	3.9	0.0
0°-30°	21120.6	27.5
0°-40°	34729.5	45.2
0°-60°	61917.6	80.7
0°-90°	75886.5	98.9
90°-120°	726.1	0.9
90°-150°	845.3	1.1
90°-180°	880.0	1.1
0°-180°	76767.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	27160	27160	27160	27160	27160	
5°	26984	27078	26889	26972	26936	###
15°	26108	26006	25821	26049	26080	7371
25°	24254	24148	24317	24541	24470	11180
35°	21497	21548	21768	22000	21914	13436
45°	17841	18132	18469	18941	19000	13744
55°	13128	13761	14699	15288	15253	11719
65°	7705	8911	10116	8538	6971	7677
75°	3032	4398	3236	3311	3527	3313
85°	522	1001	1284	1551	1626	637
90°	4	334	664	833	872	31
95°	4	208	456	554	569	5
105°	16	90	224	271	283	18
115°	31	47	114	145	153	29
125°	28	31	71	82	86	27
135°	35	39	43	63	67	28
145°	35	39	39	43	47	23
155°	39	43	43	43	39	18
165°	43	43	43	43	43	12
175°	43	43	39	35	35	4
180°	39	39	39	39	39	



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CATALOG NUMBER: OHBL-90SE-A-UNV-L940-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	27160.2	27160.2	27160.2	27160.2	27160.2
2.5°	27050.3	27164.2	27022.8	27175.9	27215.2
5°	26983.5	27077.8	26889.3	26971.7	26936.4
7.5°	26861.8	26893.2	26669.3	26736.1	26665.4
10°	26681.1	26665.4	26402.3	26531.9	26547.6
12.5°	26414.1	26366.9	26131.3	26327.7	26331.6
15°	26107.8	26005.6	25821.1	26048.8	26080.3
17.5°	25754.3	25620.8	25499.0	25793.6	25746.5
20°	25342.0	25184.9	25161.3	25483.3	25365.5
22.5°	24831.4	24709.7	24764.7	25071.0	24996.4
25°	24254.1	24148.1	24317.0	24540.8	24470.1
27.5°	23645.4	23582.6	23775.0	23947.8	23810.4
30°	22977.8	22942.5	23197.7	23339.1	23166.3
32.5°	22251.3	22263.1	22506.5	22699.0	22538.0
35°	21497.3	21548.3	21768.2	21999.9	21913.5
37.5°	20668.6	20782.5	21002.4	21265.6	21175.2
40°	19792.9	19957.8	20201.3	20519.4	20436.9
42.5°	18846.4	19054.6	19368.7	19722.2	19714.3
45°	17841.1	18131.7	18469.4	18940.7	18999.6
47.5°	16796.5	17122.4	17550.5	18178.8	18269.1
50°	15661.5	16069.9	16604.0	17358.0	17413.0
52.5°	14397.0	14954.6	15661.5	16384.1	16317.3
55°	13128.5	13760.8	14699.4	15288.4	15253.1
57.5°	11863.9	12574.8	13713.6	14133.8	14129.9
60°	10450.2	11349.5	12594.4	12912.5	12598.3
62.5°	9142.4	10108.5	11400.5	11168.8	10092.8
65°	7705.1	8910.7	10116.4	8537.6	6970.7
67.5°	6428.8	7685.4	8592.6	5847.5	5007.1
70°	5144.6	6530.9	6699.7	4339.5	4280.6
72.5°	4005.7	5482.3	4622.3	3715.1	3903.6
75°	3031.8	4398.4	3236.0	3310.6	3526.6
77.5°	2211.0	3377.4	2517.3	2902.2	3078.9
80°	1519.8	2391.6	2053.9	2438.8	2560.5
82.5°	954.3	1578.7	1645.5	1963.6	2089.2
85°	522.3	1001.4	1284.2	1551.2	1625.8
87.5°	216.0	604.8	981.8	1197.8	1260.6
90°	3.9	333.8	663.7	832.6	871.8
92.5°	3.9	255.3	541.9	671.5	699.0
95°	3.9	208.1	455.6	553.7	569.4
97.5°	7.9	164.9	380.9	459.5	475.2
100°	11.8	137.5	318.1	384.9	396.6
102.5°	15.7	110.0	267.0	322.0	333.8
105°	15.7	90.3	223.8	271.0	282.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	27.5	55.0	133.5	168.9	176.7
115°	31.4	47.1	113.9	145.3	153.2
117.5°	31.4	39.3	98.2	121.7	129.6
120°	31.4	35.3	86.4	106.0	110.0
122.5°	31.4	31.4	74.6	94.3	98.2
125°	27.5	31.4	70.7	82.5	86.4
127.5°	31.4	31.4	62.8	74.6	78.5
130°	31.4	35.3	55.0	70.7	70.7
132.5°	35.3	39.3	51.1	66.8	66.8
135°	35.3	39.3	43.2	62.8	66.8
137.5°	39.3	39.3	39.3	58.9	62.8
140°	39.3	39.3	35.3	51.1	55.0
142.5°	35.3	39.3	35.3	47.1	51.1
145°	35.3	39.3	39.3	43.2	47.1
147.5°	39.3	39.3	39.3	39.3	43.2
150°	39.3	39.3	39.3	39.3	39.3
152.5°	39.3	39.3	39.3	39.3	39.3
155°	39.3	43.2	43.2	43.2	39.3
157.5°	39.3	43.2	43.2	43.2	43.2
160°	39.3	43.2	43.2	43.2	43.2
162.5°	43.2	43.2	43.2	43.2	43.2
165°	43.2	43.2	43.2	43.2	43.2
167.5°	43.2	47.1	43.2	43.2	43.2
170°	43.2	43.2	43.2	39.3	39.3
172.5°	43.2	43.2	43.2	39.3	39.3
175°	43.2	43.2	39.3	35.3	35.3
177.5°	47.1	43.2	39.3	35.3	31.4
180°	39.3	39.3	39.3	39.3	39.3



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







107.5°	19.6	74.6	192.4	231.7	239.6
110°	23.6	62.8	161.0	196.4	204.2



(END OF REPORT)