

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: P830813

Luminaire Tested: **OHBL-90SE-A-UNV-L740-CD**

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P830813
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-L740-CD
Description: 90000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 4000K LEDS AND AISLE LENS
Light Source: -
Ballast/Driver: -

Summary

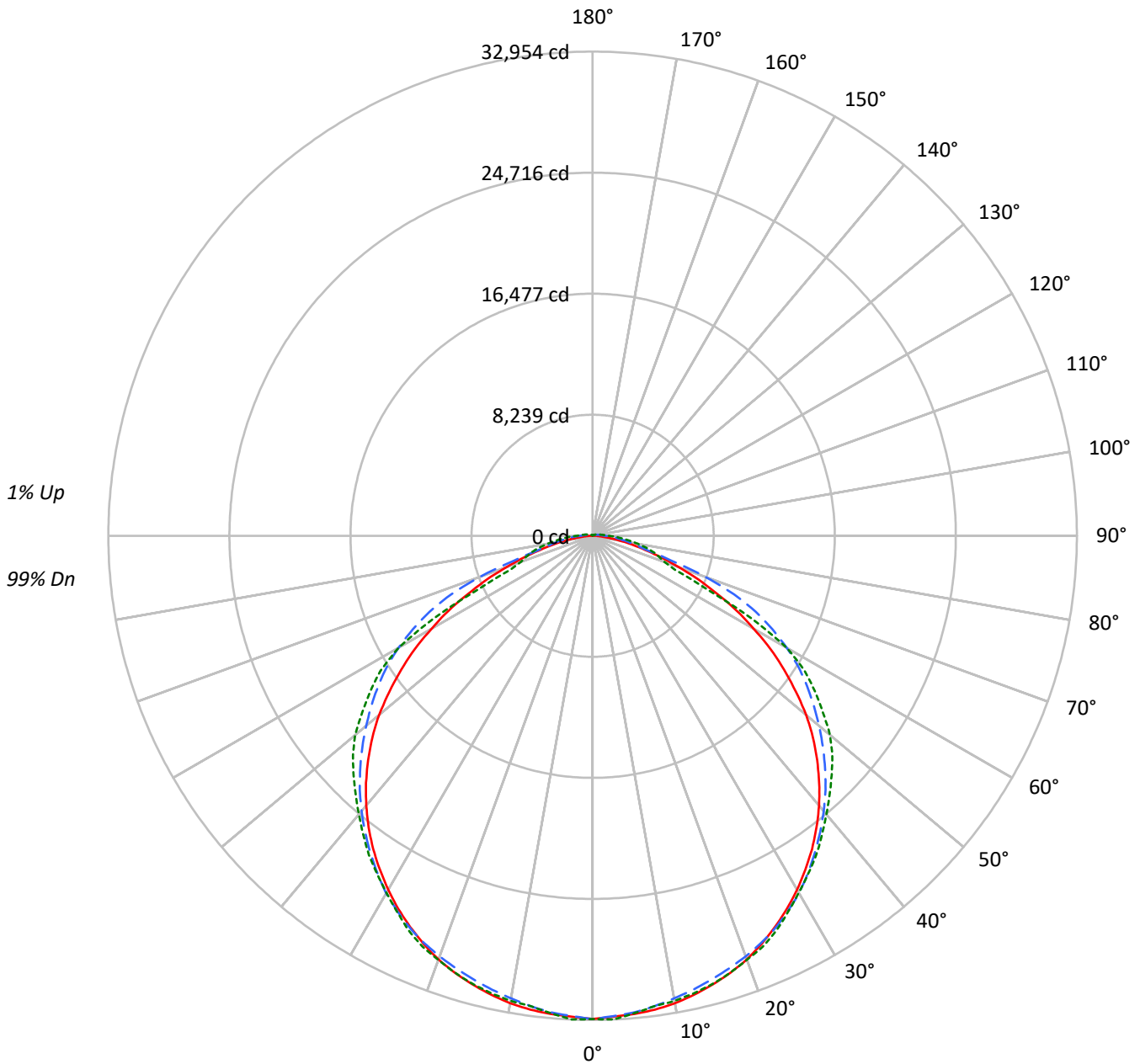
Lumens per Lamp: N/A
Luminaire Lumens: 92955.0 lumens
Efficiency: N/A
Efficacy: 175.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

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

TEST NUMBER: P830813

CATALOG NUMBER: OHBL-90SE-A-UNV-L740-CD

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°	52011	52011	52011
5°	51671	51255	51363
10°	51481	50479	50792
15°	51155	49898	50453
20°	50828	49533	50006
25°	50215	49164	49563
30°	49548	48584	48626
35°	48750	47662	48108
40°	47713	46711	47405
45°	46277	45610	47093
50°	44329	44356	46720
55°	41235	43123	44976
60°	37184	41318	41581
65°	31898	37969	26352
70°	25692	29640	19106
75°	19262	17595	19390
80°	13408	14630	18513
85°	7631	13405	17353



TEST NUMBER: P830813

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3101.0	3.3
10°-20°	8892.2	9.6
20°-30°	13581.2	14.6
30°-40°	16478.6	17.7
40°-50°	17271.1	18.6
50°-60°	15650.3	16.8
60°-70°	10492.9	11.3
70°-80°	4711.8	5.1
80°-90°	1709.8	1.8
90°-100°	514.7	0.6
100°-110°	242.9	0.3
110°-120°	121.7	0.1
120°-130°	67.1	0.1
130°-140°	46.2	0.0
140°-150°	31.1	0.0
150°-160°	23.1	0.0
160°-170°	14.8	0.0
170°-180°	4.7	0.0
0°-30°	25574.3	27.5
0°-40°	42053.0	45.2
0°-60°	74974.4	80.7
0°-90°	91888.8	98.9
90°-120°	879.2	0.9
90°-150°	1023.6	1.1
90°-180°	1066.0	1.1
0°-180°	92955.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	32888	32888	32888	32888	32888	
5°	32674	32788	32559	32659	32616	###
15°	31613	31490	31266	31542	31580	8926
25°	29369	29240	29445	29716	29630	13537
35°	26030	26092	26358	26639	26534	16270
45°	21603	21955	22364	22935	23006	16642
55°	15897	16662	17799	18512	18470	14190
65°	9330	10790	12250	10338	8441	9296
75°	3671	5326	3918	4009	4270	4012
85°	632	1213	1555	1878	1969	772
90°	5	404	804	1008	1056	38
95°	5	252	552	670	690	6
105°	19	109	271	328	342	22
115°	38	57	138	176	186	35
125°	33	38	86	100	105	33
135°	43	48	52	76	81	34
145°	43	48	48	52	57	28
155°	48	52	52	52	48	22
165°	52	52	52	52	52	15
175°	52	52	48	43	43	5
180°	48	48	48	48	48	



TEST NUMBER: P830813

CATALOG NUMBER: OHBL-90SE-A-UNV-L740-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	32887.6	32887.6	32887.6	32887.6	32887.6
2.5°	32754.4	32892.3	32721.1	32906.6	32954.1
5°	32673.6	32787.7	32559.4	32659.3	32616.5
7.5°	32526.2	32564.2	32293.1	32374.0	32288.4
10°	32307.4	32288.4	31969.8	32126.7	32145.7
12.5°	31984.1	31927.0	31641.7	31879.4	31884.2
15°	31613.1	31489.5	31266.0	31541.8	31579.9
17.5°	31185.2	31023.5	30876.1	31232.7	31175.7
20°	30685.9	30495.6	30467.1	30857.1	30714.4
22.5°	30067.7	29920.3	29986.8	30357.7	30267.4
25°	29368.6	29240.3	29444.7	29715.8	29630.2
27.5°	28631.6	28555.5	28788.5	28997.7	28831.3
30°	27823.2	27780.4	28089.5	28260.7	28051.4
32.5°	26943.5	26957.7	27252.5	27485.6	27290.6
35°	26030.4	26092.3	26358.5	26639.1	26534.5
37.5°	25027.1	25165.0	25431.3	25749.9	25640.5
40°	23966.6	24166.4	24461.2	24846.4	24746.5
42.5°	22820.6	23072.6	23453.1	23881.0	23871.5
45°	21603.3	21955.2	22364.1	22934.7	23006.1
47.5°	20338.4	20733.0	21251.4	22012.2	22121.6
50°	18964.1	19458.6	20105.3	21018.4	21084.9
52.5°	17432.9	18108.1	18964.1	19839.1	19758.2
55°	15896.9	16662.5	17799.0	18512.3	18469.5
57.5°	14365.7	15226.4	16605.5	17114.3	17109.5
60°	12653.8	13742.8	15250.2	15635.4	15255.0
62.5°	11070.3	12240.1	13804.6	13524.0	12221.1
65°	9329.9	10789.7	12249.6	10338.0	8440.6
67.5°	7784.4	9306.1	10404.6	7080.6	6063.0
70°	6229.4	7908.0	8112.5	5254.6	5183.3
72.5°	4850.4	6638.4	5597.0	4498.5	4726.8
75°	3671.1	5325.9	3918.4	4008.7	4270.2
77.5°	2677.2	4089.5	3048.1	3514.2	3728.1
80°	1840.3	2896.0	2487.0	2953.0	3100.4
82.5°	1155.5	1911.6	1992.5	2377.6	2529.8
85°	632.5	1212.6	1555.0	1878.3	1968.7
87.5°	261.5	732.3	1188.8	1450.4	1526.4
90°	4.8	404.2	803.6	1008.1	1055.7
92.5°	4.8	309.1	656.2	813.2	846.4
95°	4.8	252.0	551.6	670.5	689.5
97.5°	9.5	199.7	461.3	556.4	575.4
100°	14.3	166.4	385.2	466.0	480.3
102.5°	19.0	133.1	323.4	389.9	404.2
105°	19.0	109.4	271.1	328.1	342.4



TEST NUMBER: P830813

CATALOG NUMBER: OHBL-90SE-A-UNV-L740-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	33.3	66.6	161.7	204.5	214.0
115°	38.0	57.1	137.9	175.9	185.5
117.5°	38.0	47.6	118.9	147.4	156.9
120°	38.0	42.8	104.6	128.4	133.1
122.5°	38.0	38.0	90.4	114.1	118.9
125°	33.3	38.0	85.6	99.9	104.6
127.5°	38.0	38.0	76.1	90.4	95.1
130°	38.0	42.8	66.6	85.6	85.6
132.5°	42.8	47.6	61.8	80.8	80.8
135°	42.8	47.6	52.3	76.1	80.8
137.5°	47.6	47.6	47.6	71.3	76.1
140°	47.6	47.6	42.8	61.8	66.6
142.5°	42.8	47.6	42.8	57.1	61.8
145°	42.8	47.6	47.6	52.3	57.1
147.5°	47.6	47.6	47.6	47.6	52.3
150°	47.6	47.6	47.6	47.6	47.6
152.5°	47.6	47.6	47.6	47.6	47.6
155°	47.6	52.3	52.3	52.3	47.6
157.5°	47.6	52.3	52.3	52.3	52.3
160°	47.6	52.3	52.3	52.3	52.3
162.5°	52.3	52.3	52.3	52.3	52.3
165°	52.3	52.3	52.3	52.3	52.3
167.5°	52.3	57.1	52.3	52.3	52.3
170°	52.3	52.3	52.3	47.6	47.6
172.5°	52.3	52.3	52.3	47.6	47.6
175°	52.3	52.3	47.6	42.8	42.8
177.5°	57.1	52.3	47.6	42.8	38.0
180°	47.6	47.6	47.6	47.6	47.6



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	23.8	90.4	233.0	280.6	290.1
110°	28.5	76.1	195.0	237.8	247.3



(END OF REPORT)