

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: P830857

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

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P830857
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-L940-CD
Description: 90000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 4000K LEDS AND NARROW LENS
Light Source: -
Ballast/Driver: -

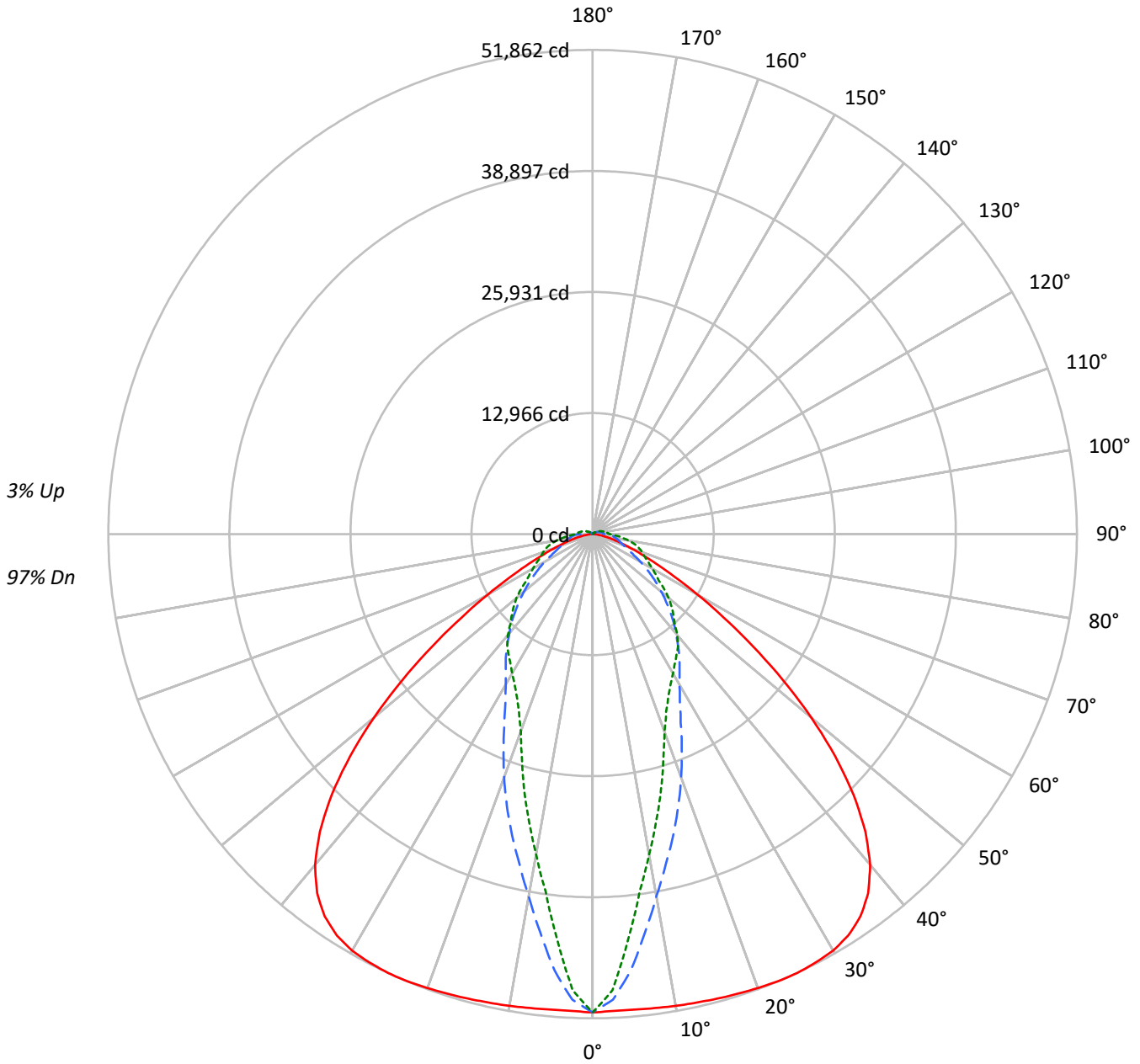
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 75614.0 lumens
Efficiency: N/A
Efficacy: 142.9 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

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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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	97	97	97
1	109	104	100	97	106	102	98	95	97	94	91	92	90	88	88	86	85	85	82	82	82
2	100	93	86	81	97	90	85	80	86	82	78	83	79	75	79	76	73	73	71	71	71
3	92	83	75	69	90	81	74	69	78	72	67	74	70	65	72	67	64	64	62	62	62
4	85	74	66	60	83	73	66	60	70	64	59	67	62	57	65	60	56	56	54	54	54
5	79	67	59	53	77	66	59	53	64	57	52	62	56	51	59	54	50	50	48	48	48
6	74	62	53	47	72	60	53	47	58	52	46	56	50	46	55	49	45	45	43	43	43
7	69	56	48	43	67	55	48	42	54	47	42	52	46	41	50	45	41	41	39	39	39
8	65	52	44	39	63	51	44	39	50	43	38	48	42	38	47	41	37	37	35	35	35
9	61	48	41	35	59	47	40	35	46	40	35	45	39	35	44	38	34	34	32	32	32
10	57	45	37	33	56	44	37	32	43	37	32	42	36	32	41	35	32	32	30	30	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	81023	81023	81023
5°	80858	73819	68646
10°	81770	62209	55079
15°	83367	53228	45237
20°	85709	45027	36613
25°	88674	37288	32103
30°	91739	32141	29845
35°	93648	29308	28458
40°	92045	26490	27022
45°	84677	23956	25043
50°	71442	21181	23532
55°	54285	18571	20969
60°	38042	15946	20109
65°	25589	13753	19729
70°	17476	12934	20759
75°	12127	13378	22274
80°	8349	14887	23089
85°	4883	18790	24542



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4312.7	5.7
10°-20°	10145.4	13.4
20°-30°	12717.1	16.8
30°-40°	13494.3	17.8
40°-50°	12201.0	16.1
50°-60°	8846.5	11.7
60°-70°	5551.6	7.3
70°-80°	3673.9	4.9
80°-90°	2116.6	2.8
90°-100°	1025.4	1.4
100°-110°	707.7	0.9
110°-120°	436.7	0.6
120°-130°	211.5	0.3
130°-140°	97.3	0.1
140°-150°	53.1	0.1
150°-160°	23.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
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0°-30°	27175.2	35.9
0°-40°	40669.5	53.8
0°-60°	61717.0	81.6
0°-90°	73059.1	96.6
90°-120°	2169.9	2.9
90°-150°	2531.8	3.3
90°-180°	2555.0	3.4
0°-180°	75614.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	51232	51232	51232	51232	51232	
5°	51130	49818	46893	44718	43592	###
15°	51520	41992	33352	29661	28315	14611
25°	51862	32470	22332	19821	19192	23959
35°	50004	21586	16208	15701	15696	31085
45°	39530	13672	11746	12029	12234	30114
55°	20928	8475	7665	8314	8611	18909
65°	7485	4915	4437	5686	6319	7789
75°	2311	2648	2979	4627	4905	2576
85°	405	1097	2180	3033	2784	485
90°	0	458	1263	1780	1794	26
95°	20	322	1112	1512	1580	17
105°	39	214	809	1073	1102	39
115°	54	151	546	683	697	53
125°	58	78	278	351	346	51
135°	49	58	122	190	190	38
145°	58	63	73	112	107	35
155°	58	73	78	83	73	18
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P830857

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	51232.5	51232.5	51232.5	51232.5	51232.5
2.5°	51125.2	50832.7	49920.9	49365.0	48896.9
5°	51130.1	49818.5	46892.8	44718.1	43591.8
7.5°	51203.3	48287.4	43016.4	39842.1	38603.6
10°	51315.4	46390.6	39398.4	36014.4	34858.8
12.5°	51398.3	44254.9	36214.3	32737.7	31469.9
15°	51520.2	41992.4	33352.1	29660.9	28315.1
17.5°	51632.4	39861.6	30524.0	26667.0	25170.1
20°	51744.5	37565.0	27695.9	23721.9	22488.3
22.5°	51851.8	35141.6	24936.1	21435.1	20591.5
25°	51861.5	32469.5	22332.2	19821.1	19192.1
27.5°	51734.7	29699.9	20220.9	18470.4	18080.3
30°	51515.3	27013.2	18582.6	17495.2	17217.3
32.5°	50969.2	24272.9	17314.8	16554.1	16393.2
35°	50003.8	21586.2	16207.9	15700.8	15696.0
37.5°	48482.4	19201.8	15008.4	14920.7	15027.9
40°	46234.6	17114.9	13872.3	14106.4	14106.4
42.5°	43235.8	15301.0	12843.5	13082.4	13019.0
45°	39530.0	13672.4	11746.4	12029.2	12234.0
47.5°	35234.2	12238.9	10624.9	11171.0	11453.8
50°	30563.0	10873.6	9600.9	10298.2	10620.0
52.5°	25667.5	9610.7	8601.3	9401.0	9659.4
55°	20927.9	8474.6	7665.1	8313.6	8611.1
57.5°	16637.0	7392.1	6748.4	7362.8	7977.2
60°	12945.9	6460.7	5885.4	6763.1	7377.4
62.5°	9888.6	5631.8	5076.0	6202.3	6816.7
65°	7484.7	4915.0	4437.2	5685.5	6319.3
67.5°	5641.6	4295.8	3939.8	5310.0	5929.3
70°	4237.3	3696.0	3540.0	5076.0	5631.8
72.5°	3130.4	3145.0	3223.1	4871.2	5295.4
75°	2311.2	2647.7	2979.3	4627.4	4905.3
77.5°	1653.0	2194.2	2759.8	4334.8	4432.3
80°	1145.9	1789.5	2530.7	3949.6	3866.7
82.5°	716.8	1433.6	2325.9	3525.4	3296.2
85°	404.7	1097.1	2179.6	3032.9	2784.2
87.5°	180.4	819.2	1906.5	2364.9	2208.8
90°	0.0	458.3	1262.9	1779.8	1794.4
92.5°	9.8	380.3	1165.4	1628.6	1677.4
95°	19.5	321.8	1111.7	1511.6	1579.8
97.5°	24.4	282.8	1043.5	1404.3	1462.8
100°	29.3	253.6	960.6	1292.1	1340.9
102.5°	34.1	234.0	882.6	1175.1	1214.1
105°	39.0	214.5	809.4	1072.7	1102.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	48.8	165.8	609.5	770.4	794.8
115°	53.6	151.2	546.1	682.6	697.3
117.5°	58.5	131.7	477.9	599.8	604.6
120°	58.5	117.0	409.6	512.0	512.0
122.5°	58.5	97.5	341.3	424.2	419.3
125°	58.5	78.0	277.9	351.1	346.2
127.5°	53.6	63.4	224.3	292.6	287.7
130°	53.6	63.4	180.4	248.7	248.7
132.5°	48.8	58.5	146.3	214.5	214.5
135°	48.8	58.5	121.9	190.2	190.2
137.5°	48.8	63.4	102.4	165.8	165.8
140°	48.8	58.5	87.8	146.3	146.3
142.5°	53.6	58.5	78.0	126.8	126.8
145°	58.5	63.4	73.1	112.1	107.3
147.5°	58.5	68.3	73.1	97.5	92.6
150°	58.5	73.1	73.1	87.8	82.9
152.5°	58.5	73.1	73.1	82.9	78.0
155°	58.5	73.1	78.0	82.9	73.1
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°	39.0	199.9	741.2	960.6	994.7
110°	43.9	180.4	677.8	858.2	892.3



(END OF REPORT)