

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: P830005

Luminaire Tested: **OHBL-18SE-NL-UNV-L940-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830005
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P472951)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-18SE-NL-UNV-L940-CD
Description: 18000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 4000K LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

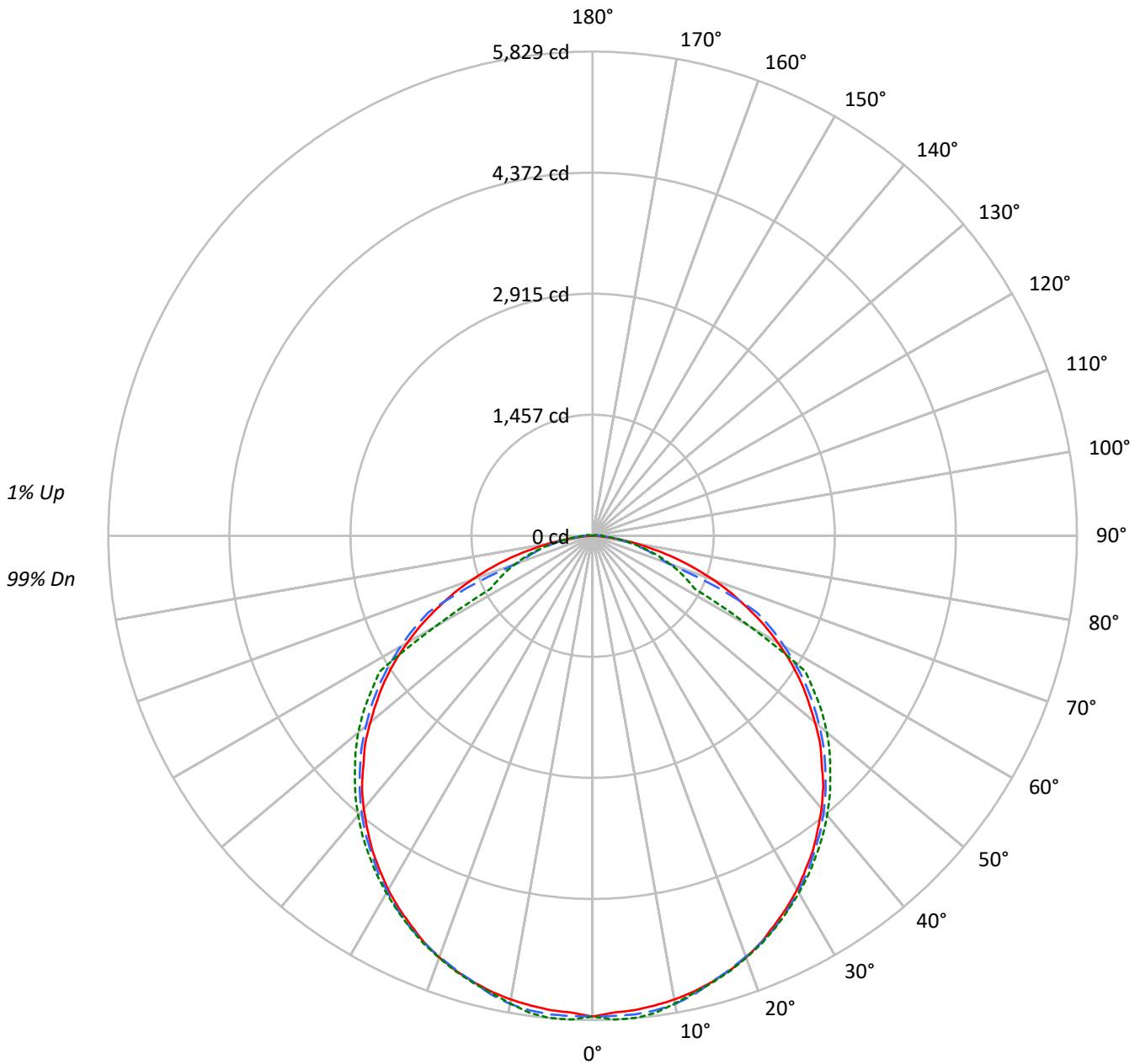
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16247.0 lumens
Efficiency: N/A
Efficacy: 154.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular (W 1.67' x L: 3.78' x H: 0')
CIE Type: Direct

Input Watts (W): 105
Input Voltage (V): NR
Input Current (Ain): 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: P830005
CATALOG NUMBER: OHBL-18SE-NL-UNV-L940-CD

Luminous Intensity Polar Plot





TEST NUMBER: P830005

CATALOG NUMBER: OHBL-18SE-NL-UNV-L940-CD

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	111	111	111	106	106	106	102	102	102					99															
1	109	105	100	97	106	102	99	95	98	95	92	94	91	89	90	88	86					84															
2	99	92	85	79	97	90	84	78	86	81	76	83	78	75	80	76	73					71															
3	91	81	73	66	88	79	72	66	76	70	64	73	68	63	70	66	62					60															
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53					51															
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46					44															
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	45	41					39															
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36					34															
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32					30															
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29					27															
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26					25															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9884	9884	9884
5°	9829	9918	9993
10°	9832	9925	9913
15°	9830	9828	9850
20°	9817	9802	9826
25°	9750	9799	9807
30°	9704	9755	9793
35°	9642	9695	9785
40°	9558	9649	9792
45°	9421	9563	9771
50°	9279	9468	9780
55°	9101	9337	9673
60°	8796	9108	7531
65°	8322	8806	5068
70°	7697	4675	4918
75°	6714	4443	4697
80°	5163	4075	4304
85°	2606	4119	4217



TEST NUMBER: P830005

CATALOG NUMBER: OHBL-18SE-NL-UNV-L940-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	549.8	3.4
10°-20°	1574.1	9.7
20°-30°	2395.2	14.7
30°-40°	2912.2	17.9
40°-50°	3062.0	18.8
50°-60°	2796.0	17.2
60°-70°	1792.4	11.0
70°-80°	846.7	5.2
80°-90°	234.8	1.4
90°-100°	62.2	0.4
100°-110°	17.0	0.1
110°-120°	4.7	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	4519.1	27.8
0°-40°	7431.2	45.7
0°-60°	13289.3	81.8
0°-90°	16163.1	99.5
90°-120°	83.9	0.5
90°-150°	83.9	0.5
90°-180°	84.0	0.5
0°-180°	16247.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5787	5787	5787	5787	5787	
5°	5733	5755	5785	5816	5828	545
15°	5559	5601	5558	5566	5570	1569
25°	5174	5182	5200	5208	5204	2387
35°	4624	4597	4650	4706	4693	2890
45°	3900	3893	3959	4052	4045	3015
55°	3056	3033	3136	3240	3248	2726
65°	2059	2059	2179	1250	1254	2042
75°	1017	1037	673	709	712	1073
85°	133	169	210	228	215	197
90°	0	57	93	111	109	6
95°	3	30	67	90	90	2
105°	5	11	16	16	15	5
115°	5	7	10	7	1	4
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P830005

CATALOG NUMBER: OHBL-18SE-NL-UNV-L940-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5786.8	5786.8	5786.8	5786.8	5786.8
2.5°	5746.1	5765.5	5786.8	5814.2	5829.3
5°	5732.9	5755.3	5784.7	5816.2	5828.4
7.5°	5704.5	5735.9	5764.4	5786.8	5793.9
10°	5668.9	5706.6	5722.8	5720.8	5715.7
12.5°	5621.2	5660.9	5655.8	5632.4	5636.5
15°	5559.3	5600.9	5558.3	5566.4	5570.5
17.5°	5486.2	5526.8	5477.0	5493.3	5494.4
20°	5400.9	5431.4	5392.8	5406.0	5406.0
22.5°	5298.4	5319.7	5303.4	5312.6	5314.6
25°	5173.5	5181.5	5199.8	5208.0	5203.9
27.5°	5053.7	5043.5	5079.1	5098.3	5088.1
30°	4920.6	4904.4	4946.0	4977.5	4965.3
32.5°	4768.3	4758.2	4805.9	4843.4	4836.3
35°	4624.1	4596.7	4649.5	4706.4	4693.1
37.5°	4453.5	4437.3	4497.2	4557.1	4550.1
40°	4287.0	4259.6	4327.6	4398.7	4391.6
42.5°	4108.3	4075.8	4149.9	4235.3	4227.1
45°	3900.1	3893.0	3959.0	4052.4	4045.3
47.5°	3715.4	3679.8	3772.2	3862.6	3870.7
50°	3491.9	3478.8	3563.1	3672.7	3680.8
52.5°	3273.7	3264.5	3352.8	3463.5	3477.7
55°	3056.3	3033.0	3135.5	3240.1	3248.3
57.5°	2823.9	2799.5	2904.1	3017.8	3035.0
60°	2575.0	2551.7	2666.4	2772.1	2204.5
62.5°	2326.3	2310.0	2429.9	1721.1	1387.1
65°	2059.2	2059.2	2179.0	1249.9	1254.0
67.5°	1809.5	1793.3	1624.7	1123.0	1123.0
70°	1541.4	1547.5	936.1	984.0	984.9
72.5°	1272.3	1294.7	808.3	846.8	848.8
75°	1017.4	1036.8	673.2	708.8	711.8
77.5°	747.4	574.7	541.2	568.7	569.7
80°	524.9	362.5	414.3	440.7	437.6
82.5°	306.6	253.8	303.6	322.9	321.9
85°	133.0	168.6	210.2	227.5	215.2
87.5°	42.6	104.6	130.9	141.2	140.1
90°	0.0	56.9	93.4	110.6	108.7
92.5°	0.0	44.6	81.3	101.6	102.6
95°	3.0	29.5	67.1	90.4	90.4
97.5°	2.0	21.3	47.7	71.1	73.1
100°	2.0	17.2	31.5	50.7	51.8
102.5°	5.1	14.2	19.2	32.5	33.5
105°	5.1	11.2	16.2	16.2	15.3



TEST NUMBER: P830005

CATALOG NUMBER: OHBL-18SE-NL-UNV-L940-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	6.1	8.2	11.2	8.2	1.0
115°	5.1	7.1	10.1	7.1	1.0
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
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°	5.1	10.1	14.2	9.1	3.0
110°	6.1	9.1	12.1	8.2	1.0



(END OF REPORT)