

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: P829943

Luminaire Tested: **OHBL-18HE-W-UNV-L930-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829943
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-18HE-W-UNV-L930-CD
Description: 18000 LUMEN OHBL HE LED LUMINAIRE WITH 90CRI, 3000K LEDS AND WIDE LENS
Light Source: -
Ballast/Driver: -

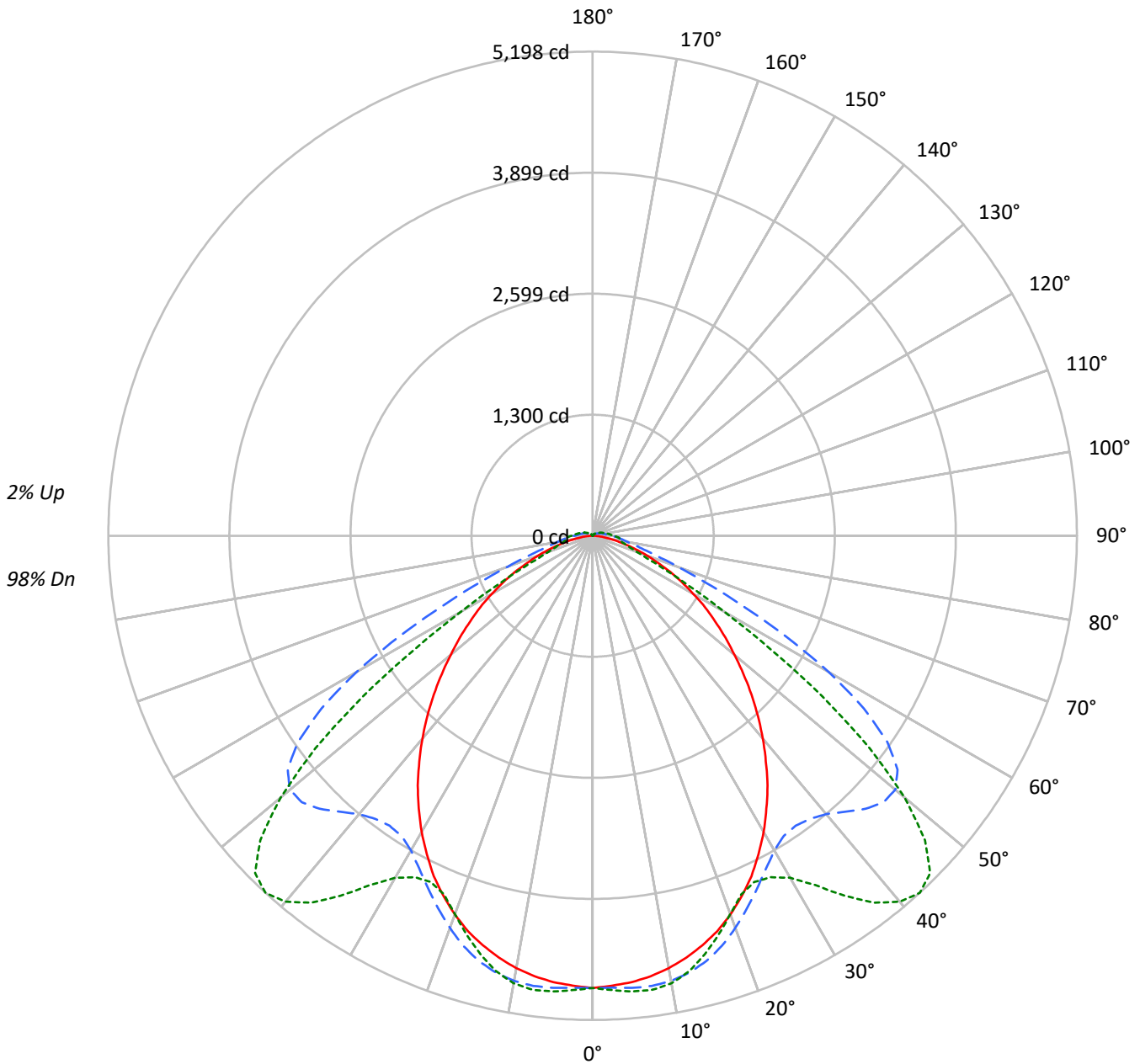
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14537.0 lumens
Efficiency: N/A
Efficacy: 141.1 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 103
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: P829943
CATALOG NUMBER: OHBL-18HE-W-UNV-L930-CD

Luminous Intensity Polar Plot





TEST NUMBER: P829943

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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	105	105	105	100	100	100					98															
1	109	104	100	96	106	102	98	95	97	94	91	93	90	88	89	87	85					83															
2	99	91	85	79	96	89	83	78	85	80	76	82	77	74	78	75	72					70															
3	90	80	72	66	88	78	71	65	75	69	64	72	67	62	69	65	61					59															
4	83	71	62	56	80	69	61	55	67	60	54	64	58	53	62	57	52					50															
5	76	63	54	48	74	62	54	47	60	52	47	57	51	46	55	50	45					43															
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	50	44	40					38															
7	65	51	43	36	63	50	42	36	49	41	36	47	40	35	45	40	35					33															
8	60	47	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31					29															
9	56	43	34	29	55	42	34	29	41	34	28	39	33	28	38	32	28					26															
10	52	39	31	26	51	39	31	26	38	31	26	36	30	26	35	30	25					24															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8292	8292	8292
5°	8215	8281	8346
10°	8112	8268	8316
15°	7954	8132	8009
20°	7737	7852	7578
25°	7447	7513	7386
30°	7061	7262	7902
35°	6621	7396	9189
40°	6110	8010	10549
45°	5576	9086	11250
50°	5019	10047	10373
55°	4495	10034	7839
60°	3963	8488	4727
65°	3400	5861	2813
70°	2762	3788	1982
75°	2101	2714	1772
80°	1508	2383	1880
85°	1024	2617	2615



TEST NUMBER: P829943

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	464.0	3.2
10°-20°	1313.8	9.0
20°-30°	1922.5	13.2
30°-40°	2496.8	17.2
40°-50°	3048.9	21.0
50°-60°	2685.0	18.5
60°-70°	1399.2	9.6
70°-80°	600.0	4.1
80°-90°	288.2	2.0
90°-100°	135.4	0.9
100°-110°	84.2	0.6
110°-120°	49.8	0.3
120°-130°	27.0	0.2
130°-140°	13.6	0.1
140°-150°	6.5	0.0
150°-160°	2.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3700.3	25.5
0°-40°	6197.0	42.6
0°-60°	11930.9	82.1
0°-90°	14218.3	97.8
90°-120°	269.3	1.9
90°-150°	316.4	2.2
90°-180°	319.0	2.2
0°-180°	14537.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4855	4855	4855	4855	4855	
5°	4810	4847	4873	4916	4911	456
15°	4551	4679	4724	4688	4651	1282
25°	4033	4249	4176	4098	4102	1851
35°	3273	3619	3800	4432	4716	2040
45°	2410	3032	4145	5018	5123	1858
55°	1605	2656	3860	3384	3008	1440
65°	921	1840	1767	982	845	911
75°	371	861	568	389	369	404
85°	79	307	289	283	286	88
90°	1	111	191	218	223	5
95°	2	65	152	178	183	2
105°	4	37	98	118	120	4
115°	6	21	61	74	76	6
125°	7	10	36	46	47	6
135°	6	6	17	28	29	5
145°	8	6	7	14	16	5
155°	8	8	6	6	6	3
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P829943

CATALOG NUMBER: OHBL-18HE-W-UNV-L930-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4855.1	4855.1	4855.1	4855.1	4855.1
2.5°	4834.1	4855.1	4856.1	4885.5	4882.3
5°	4810.1	4846.7	4872.9	4915.8	4910.6
7.5°	4770.2	4827.9	4873.9	4921.1	4916.9
10°	4713.7	4792.2	4853.0	4891.8	4879.2
12.5°	4640.4	4744.1	4803.8	4812.1	4788.1
15°	4551.3	4679.1	4724.2	4688.5	4650.8
17.5°	4450.8	4600.6	4616.3	4538.8	4491.6
20°	4325.1	4495.8	4480.1	4373.2	4320.9
22.5°	4185.7	4380.6	4330.3	4218.2	4167.9
25°	4032.8	4248.6	4176.3	4097.8	4102.0
27.5°	3853.7	4098.8	4028.6	4064.2	4131.3
30°	3671.4	3941.7	3898.7	4106.1	4238.1
32.5°	3471.4	3780.4	3819.1	4228.7	4444.5
35°	3273.4	3619.1	3800.3	4431.9	4715.8
37.5°	3054.5	3455.7	3830.7	4666.5	4964.0
40°	2841.8	3296.4	3899.8	4877.1	5128.5
42.5°	2625.0	3154.0	4016.1	5001.7	5197.6
45°	2410.3	3032.5	4144.9	5018.5	5123.2
47.5°	2195.5	2929.8	4233.9	4885.5	4837.3
50°	1988.1	2838.7	4240.2	4566.0	4369.1
52.5°	1794.3	2754.9	4125.0	4056.9	3751.0
55°	1604.7	2656.4	3860.0	3384.4	3008.4
57.5°	1431.9	2520.2	3451.5	2661.7	2251.0
60°	1248.6	2335.9	2923.5	1947.3	1623.6
62.5°	1080.0	2106.5	2331.7	1355.4	1166.9
65°	920.7	1840.4	1767.1	982.5	845.3
67.5°	752.1	1564.9	1304.1	716.5	628.5
70°	620.1	1309.4	971.0	557.3	505.9
72.5°	485.0	1066.3	725.9	452.5	424.2
75°	370.8	861.0	567.7	388.6	368.7
77.5°	273.4	680.9	456.7	343.6	324.7
80°	191.7	536.3	382.3	306.9	299.6
82.5°	128.8	414.8	325.8	292.2	293.3
85°	78.6	306.9	289.1	282.8	286.0
87.5°	37.7	217.9	248.3	257.7	260.8
90°	1.0	111.0	190.6	217.9	223.1
92.5°	0.0	84.8	167.6	194.8	200.1
95°	2.1	64.9	151.9	178.1	183.3
97.5°	2.1	53.4	136.2	163.4	166.6
100°	3.1	46.1	121.5	147.7	150.8
102.5°	3.1	40.9	108.9	132.0	134.1
105°	4.2	36.7	98.5	118.4	120.5



TEST NUMBER: P829943

CATALOG NUMBER: OHBL-18HE-W-UNV-L930-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	6.3	25.1	69.1	83.8	85.9
115°	6.3	20.9	60.8	74.4	76.5
117.5°	7.3	18.9	53.4	66.0	67.0
120°	7.3	15.7	46.1	58.7	59.7
122.5°	7.3	12.6	40.9	52.4	53.4
125°	7.3	10.5	35.6	46.1	47.1
127.5°	6.3	7.3	30.4	40.9	41.9
130°	6.3	6.3	25.1	35.6	37.7
132.5°	6.3	6.3	20.9	31.4	33.5
135°	6.3	6.3	16.8	28.3	29.3
137.5°	6.3	6.3	13.6	24.1	26.2
140°	6.3	6.3	10.5	20.9	22.0
142.5°	7.3	6.3	9.4	17.8	18.9
145°	8.4	6.3	7.3	13.6	15.7
147.5°	8.4	7.3	7.3	11.5	12.6
150°	8.4	8.4	6.3	8.4	10.5
152.5°	8.4	8.4	6.3	6.3	8.4
155°	8.4	8.4	6.3	6.3	6.3
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°	5.2	32.5	88.0	105.8	107.9
110°	5.2	28.3	77.5	94.3	96.4



(END OF REPORT)