

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: P828293

Luminaire Tested: **OHBL-18HE-A-UNV-L940-CD-UPL24**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P828293
REPORT IS A COMBINATION OF REPORTS P826227 AND G3-2310-221-6
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-18HE-A-UNV-L940-CD-UPL24
Description:
Light Source: -
Ballast/Driver: -

Summary

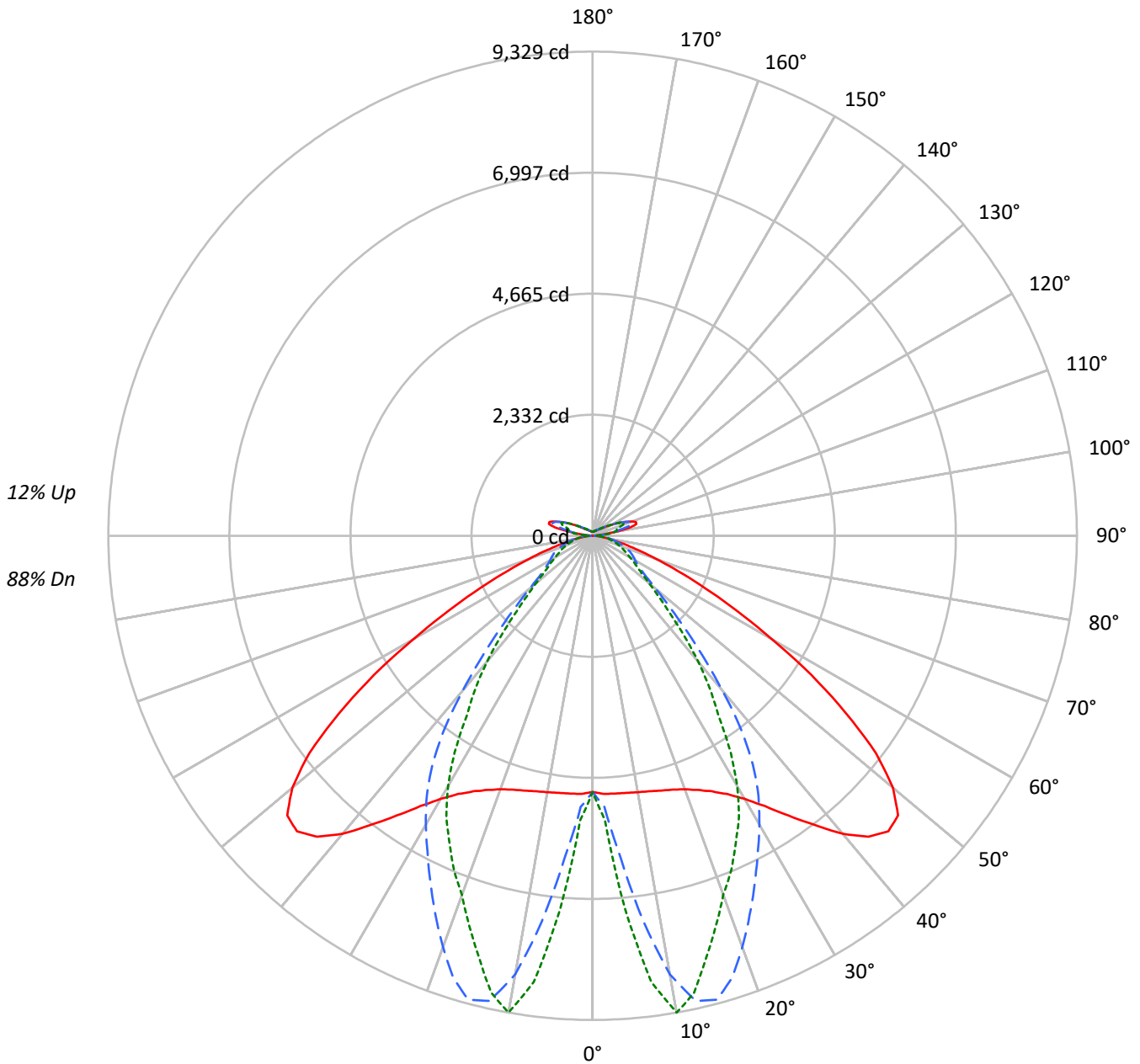
Lumens per Lamp: N/A
Luminaire Lumens: 17945.5 lumens
Efficiency: N/A
Efficacy: 149.0 lumens/watt
Spacing Criteria (0/90/45): 2.18 / 1.37 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 120.4
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: P828293

CATALOG NUMBER: OHBL-18HE-A-UNV-L940-CD-UPL24

Luminous Intensity Polar Plot





TEST NUMBER: P828293

CATALOG NUMBER: OHBL-18HE-A-UNV-L940-CD-UPL24

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	116	116	116	116	112	112	112	112	105	105	105	98	98	98	91	91	91	88																			
1	108	104	100	97	104	100	97	94	94	92	89	88	86	85	83	81	80	77																			
2	100	93	87	82	96	90	85	80	85	80	77	80	76	73	75	72	70	67																			
3	92	83	76	71	89	81	74	69	76	71	67	72	68	64	68	65	62	59																			
4	85	75	67	61	82	73	66	60	69	63	58	65	60	56	62	58	55	52																			
5	79	68	60	54	76	66	59	53	63	56	52	60	54	50	57	52	49	46																			
6	73	62	54	48	71	60	53	47	57	51	46	55	49	45	52	47	44	42																			
7	68	56	49	43	66	55	48	43	53	46	42	50	45	40	48	43	39	37																			
8	64	52	44	39	62	51	43	38	48	42	38	46	41	37	44	40	36	34																			
9	60	48	40	35	58	47	40	35	45	39	34	43	37	33	41	36	33	31																			
10	56	44	37	32	55	43	37	32	42	36	31	40	35	31	39	34	30	28																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8431	8431	8431
5°	8475	10605	12360
10°	8550	14620	16054
15°	8754	15927	14735
20°	9116	14778	13168
25°	9781	13290	12045
30°	10906	11967	10711
35°	12821	10474	8535
40°	15416	7977	6793
45°	17684	5434	4835
50°	17928	3728	3576
55°	15518	2934	2921
60°	11592	2745	2628
65°	7946	2754	2490
70°	5080	2656	2411
75°	3055	2458	2307
80°	1797	2161	2380
85°	865	1855	2207



TEST NUMBER: P828293

CATALOG NUMBER: OHBL-18HE-A-UNV-L940-CD-UPL24

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	644.5	3.6
10°-20°	2274.7	12.7
20°-30°	3351.8	18.7
30°-40°	3522.3	19.6
40°-50°	2695.2	15.0
50°-60°	1627.4	9.1
60°-70°	993.1	5.5
70°-80°	542.1	3.0
80°-90°	195.6	1.1
90°-100°	201.6	1.1
100°-110°	699.8	3.9
110°-120°	600.3	3.3
120°-130°	288.0	1.6
130°-140°	144.1	0.8
140°-150°	83.5	0.5
150°-160°	48.7	0.3
160°-170°	25.2	0.1
170°-180°	7.7	0.0
0°-30°	6271.0	34.9
0°-40°	9793.2	54.6
0°-60°	14115.8	78.7
0°-90°	15846.6	88.3
90°-120°	1501.7	8.4
90°-150°	2017.3	11.2
90°-180°	2099.0	11.7
0°-180°	17945.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4936	4936	4936	4936	4936	
5°	4986	5349	6240	6968	7237	477
15°	5083	7917	9253	8634	8432	1445
25°	5432	9189	7387	6688	6523	2539
35°	6580	7358	5382	4482	4220	4174
45°	8053	4199	2479	2181	2090	6085
55°	5956	1424	1128	1046	1043	5263
65°	2388	901	830	710	674	2446
75°	636	560	514	424	407	731
85°	95	174	205	187	169	117
90°	4	30	41	54	60	8
95°	46	96	150	198	224	143
105°	872	862	734	522	480	827
115°	602	608	608	606	601	607
125°	294	310	316	315	312	276
135°	174	177	184	185	187	137
145°	126	130	132	133	134	80
155°	101	103	104	105	105	47
165°	87	88	89	89	89	25
175°	78	79	79	80	80	8
180°	78	78	78	78	78	



TEST NUMBER: P828293

CATALOG NUMBER: OHBL-18HE-A-UNV-L940-CD-UPL24

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4936.5	4936.5	4936.5	4936.5	4936.5
2.5°	4977.0	5027.8	5228.1	5435.9	5486.5
5°	4986.1	5349.3	6240.4	6967.9	7236.8
7.5°	4996.7	5870.3	7494.6	8385.4	8670.5
10°	5016.8	6529.1	8581.4	9220.9	9328.7
12.5°	5041.8	7227.1	9179.4	9156.1	9020.2
15°	5083.3	7917.3	9253.1	8634.5	8431.5
17.5°	5126.9	8501.4	8931.8	8066.8	7890.0
20°	5197.8	8934.9	8432.0	7562.2	7361.2
22.5°	5300.0	9173.3	7907.9	7105.7	6974.7
25°	5431.9	9188.7	7387.3	6688.1	6523.0
27.5°	5608.7	8975.6	6888.3	6278.9	6104.5
30°	5849.2	8567.4	6424.8	5785.5	5569.1
32.5°	6175.8	7980.0	5946.7	5189.7	4947.1
35°	6579.7	7358.5	5381.8	4481.9	4219.8
37.5°	7020.4	6668.4	4696.1	3855.0	3702.4
40°	7494.6	5957.3	3883.5	3268.5	3159.2
42.5°	7864.6	5184.2	3128.5	2716.1	2600.0
45°	8053.2	4198.8	2479.0	2181.4	2089.8
47.5°	7979.8	3259.4	1965.3	1733.3	1705.8
50°	7551.1	2406.7	1573.3	1427.8	1416.4
52.5°	6881.0	1793.8	1299.6	1209.6	1189.9
55°	5955.6	1423.8	1128.5	1045.9	1042.8
57.5°	5000.3	1209.6	1024.4	960.4	938.2
60°	3981.2	1078.5	945.4	873.2	828.1
62.5°	3120.7	986.9	887.4	789.4	747.3
65°	2387.7	901.4	830.2	710.4	674.3
67.5°	1779.8	819.9	760.4	627.5	606.3
70°	1296.8	736.2	680.8	558.0	541.3
72.5°	924.2	652.9	601.2	492.8	474.4
75°	635.7	560.5	514.2	424.2	407.1
77.5°	428.9	466.4	428.5	362.2	355.0
80°	286.4	369.9	346.6	306.9	302.5
82.5°	173.8	268.4	273.5	249.6	237.5
85°	94.6	173.8	204.9	186.7	169.4
87.5°	37.0	96.3	141.2	126.8	119.4
90°	4.3	29.6	40.9	53.9	60.0
92.5°	14.8	39.1	62.6	88.7	100.0
95°	46.1	96.5	149.5	198.2	224.3
97.5°	233.9	253.0	272.1	329.5	358.2
100°	479.9	509.5	411.2	434.7	442.5
102.5°	741.6	737.3	537.3	481.7	474.7
105°	872.1	862.5	733.8	522.5	479.9



TEST NUMBER: P828293

CATALOG NUMBER: OHBL-18HE-A-UNV-L940-CD-UPL24

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	702.5	712.9	699.0	679.0	651.2
115°	601.7	607.7	607.7	606.0	600.8
117.5°	514.7	515.6	519.1	518.2	519.1
120°	426.0	435.6	443.4	439.1	433.9
122.5°	357.3	367.8	373.0	371.3	366.0
125°	293.9	309.5	315.6	314.7	312.1
127.5°	248.7	260.0	268.7	269.5	268.7
130°	216.5	223.4	232.1	233.0	233.9
132.5°	192.1	198.2	204.3	207.8	206.9
135°	173.9	177.4	183.5	185.2	186.9
137.5°	159.1	161.7	166.9	169.5	169.5
140°	146.1	149.5	153.9	155.6	156.5
142.5°	134.8	138.2	141.7	143.5	143.5
145°	126.1	129.5	132.2	133.0	133.9
147.5°	118.2	121.7	123.5	125.2	125.2
150°	112.2	113.9	116.5	117.4	118.2
152.5°	106.1	107.8	110.4	111.3	111.3
155°	100.9	102.6	104.3	105.2	105.2
157.5°	96.5	98.2	100.0	100.9	100.9
160°	93.0	93.9	95.6	96.5	96.5
162.5°	89.6	90.4	91.3	92.2	92.2
165°	86.9	87.8	88.7	88.7	88.7
167.5°	84.3	84.3	85.2	86.1	86.1
170°	81.7	82.6	82.6	83.5	83.5
172.5°	80.0	80.9	80.9	80.9	81.7
175°	78.2	79.1	79.1	80.0	80.0
177.5°	78.2	78.2	78.2	78.2	78.2
180°	78.2	78.2	78.2	78.2	78.2



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	875.5	879.0	811.2	633.8	527.8
110°	807.7	815.5	776.4	709.5	624.3



(END OF REPORT)