

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: P828300

Luminaire Tested: **OHBL-18HE-N-UNV-L940-CD-UPL12**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P828300
REPORT IS A COMBINATION OF REPORTS P826062 AND G3-2310-221-12
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-18HE-N-UNV-L940-CD-UPL12
Description:
Light Source: -
Ballast/Driver: -

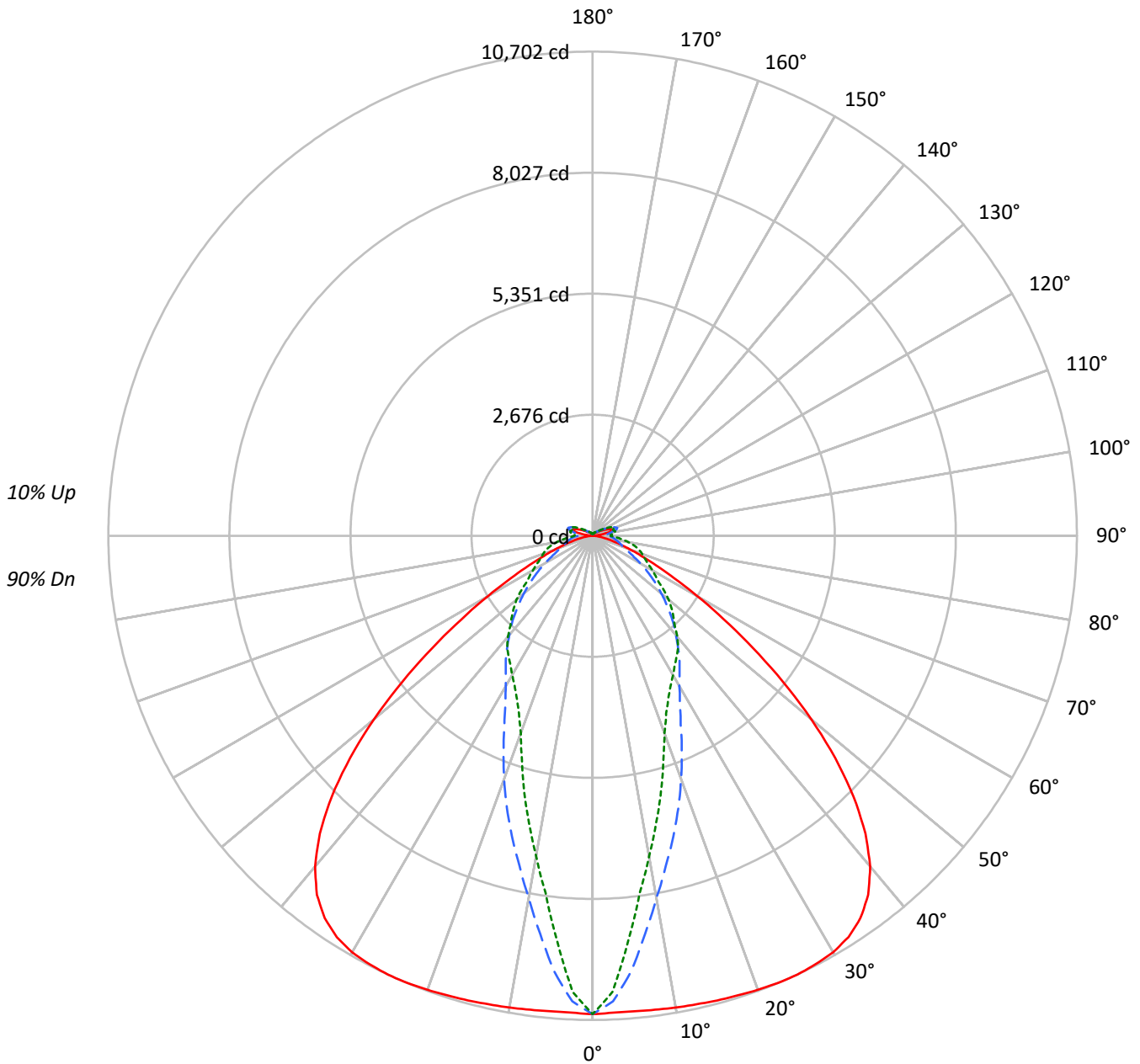
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16686.7 lumens
Efficiency: N/A
Efficacy: 149.8 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')
CIE Type: Direct

Input Watts (W): 111.4
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: P828300
CATALOG NUMBER: OHBL-18HE-N-UNV-L940-CD-UPL12

Luminous Intensity Polar Plot





TEST NUMBER: P828300

CATALOG NUMBER: OHBL-18HE-N-UNV-L940-CD-UPL12

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	117	117	117	117	113	113	113	113	106	106	106	99	99	99	93	93	93	90																			
1	107	103	99	95	104	100	96	93	94	91	88	88	86	84	83	81	80	77																			
2	99	91	85	80	95	89	83	78	84	79	75	79	75	72	75	72	69	66																			
3	91	81	74	68	88	79	72	67	75	69	65	71	66	62	67	63	60	58																			
4	84	73	65	59	81	71	64	58	68	61	57	64	59	55	61	57	53	51																			
5	78	66	58	52	75	65	57	51	62	55	50	59	53	49	56	51	47	45																			
6	73	60	52	46	70	59	51	46	56	50	45	54	48	44	51	46	42	40																			
7	68	55	47	42	65	54	47	41	52	45	40	50	44	39	47	42	38	36																			
8	63	51	43	38	61	50	42	37	48	41	37	46	40	36	44	39	35	33																			
9	59	47	40	34	58	46	39	34	44	38	33	43	37	33	41	36	32	30																			
10	56	44	36	32	54	43	36	31	41	35	31	40	34	30	38	33	30	28																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18058	18058	18058
5°	17933	16445	15364
10°	18048	13852	12380
15°	18309	11847	10212
20°	18727	10017	8302
25°	19270	8291	7313
30°	19822	7143	6833
35°	20107	6510	6551
40°	19626	5880	6259
45°	17913	5314	5841
50°	14974	4695	5533
55°	11253	4112	4978
60°	7778	3526	4832
65°	5140	3037	4815
70°	3425	2850	5177
75°	2292	2939	5737
80°	1484	3256	6279
85°	764	4072	7486



TEST NUMBER: P828300

CATALOG NUMBER: OHBL-18HE-N-UNV-L940-CD-UPL12

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	890.0	5.3
10°-20°	2093.6	12.5
20°-30°	2624.3	15.7
30°-40°	2784.7	16.7
40°-50°	2517.8	15.1
50°-60°	1825.6	10.9
60°-70°	1145.6	6.9
70°-80°	758.2	4.5
80°-90°	439.5	2.6
90°-100°	315.0	1.9
100°-110°	505.9	3.0
110°-120°	399.2	2.4
120°-130°	191.8	1.1
130°-140°	94.2	0.6
140°-150°	54.1	0.3
150°-160°	29.9	0.2
160°-170°	13.1	0.1
170°-180°	4.0	0.0
<hr/>		
0°-30°	5608.0	33.6
0°-40°	8392.7	50.3
0°-60°	12736.1	76.3
0°-90°	15079.4	90.4
90°-120°	1220.2	7.3
90°-150°	1560.3	9.4
90°-180°	1607.0	9.6
0°-180°	16686.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10572	10572	10572	10572	10572	
5°	10551	10281	9677	9228	8996	###
15°	10632	8666	6883	6121	5843	3015
25°	10702	6700	4609	4090	3960	4944
35°	10319	4455	3345	3240	3239	6415
45°	8158	2821	2424	2482	2525	6214
55°	4319	1749	1582	1716	1777	3902
65°	1545	1014	916	1173	1304	1607
75°	477	546	615	955	1012	532
85°	84	226	450	626	574	100
90°	3	110	281	394	401	7
95°	26	117	304	413	442	75
105°	458	488	546	490	474	433
115°	324	344	426	452	450	324
125°	165	175	220	233	233	153
135°	99	103	120	135	135	78
145°	77	80	83	92	92	49
155°	64	68	70	72	70	28
165°	45	45	46	46	46	13
175°	41	41	41	41	41	4
180°	40	40	40	40	40	



TEST NUMBER: P828300

CATALOG NUMBER: OHBL-18HE-N-UNV-L940-CD-UPL12

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10572.4	10572.4	10572.4	10572.4	10572.4
2.5°	10550.4	10489.9	10301.8	10187.1	10090.5
5°	10551.3	10280.7	9676.9	9228.2	8995.7
7.5°	10566.4	9964.7	8877.0	8221.9	7966.4
10°	10589.6	9573.3	8130.3	7432.0	7193.5
12.5°	10606.7	9132.6	7473.3	6755.8	6494.2
15°	10631.8	8665.7	6882.6	6120.9	5843.2
17.5°	10655.0	8226.0	6299.0	5503.1	5194.1
20°	10678.2	7752.1	5715.4	4895.3	4640.7
22.5°	10700.3	7251.9	5145.9	4423.4	4249.3
25°	10702.3	6700.5	4608.6	4090.3	3960.5
27.5°	10676.2	6129.0	4172.8	3811.6	3731.1
30°	10630.9	5574.5	3834.8	3610.4	3553.0
32.5°	10518.2	5009.0	3573.2	3416.1	3382.9
35°	10318.9	4454.6	3344.8	3240.1	3239.0
37.5°	10005.0	3962.6	3097.2	3079.1	3101.2
40°	9541.1	3531.9	2862.7	2911.1	2911.1
42.5°	8922.2	3157.6	2650.4	2699.7	2686.7
45°	8157.6	2821.4	2424.0	2482.4	2524.6
47.5°	7271.1	2525.6	2192.6	2305.2	2363.7
50°	6307.0	2243.9	1981.3	2125.2	2191.6
52.5°	5296.8	1983.3	1775.0	1940.0	1993.4
55°	4318.8	1748.8	1581.8	1715.6	1777.0
57.5°	3433.3	1525.4	1392.6	1519.4	1646.2
60°	2671.5	1333.3	1214.5	1395.6	1522.4
62.5°	2040.7	1162.2	1047.5	1279.9	1406.7
65°	1544.6	1014.3	915.7	1173.2	1304.1
67.5°	1164.2	886.5	813.0	1095.8	1223.6
70°	874.4	762.8	730.5	1047.5	1162.2
72.5°	646.0	649.0	665.1	1005.3	1092.8
75°	477.0	546.4	614.8	954.9	1012.3
77.5°	341.1	452.8	569.5	894.6	914.7
80°	236.5	369.3	522.3	815.0	798.0
82.5°	147.9	295.9	479.9	727.5	680.3
85°	83.6	226.4	449.8	625.9	574.5
87.5°	37.2	169.0	393.4	488.0	455.8
90°	2.6	110.2	281.4	394.2	400.7
92.5°	9.8	98.5	273.5	383.0	397.4
95°	25.7	116.9	304.2	412.8	442.5
97.5°	122.4	186.1	359.7	460.2	481.0
100°	246.0	310.6	413.0	491.0	505.4
102.5°	388.7	424.8	456.9	491.1	494.9
105°	457.6	488.5	546.1	490.0	474.4



TEST NUMBER: P828300

CATALOG NUMBER: OHBL-18HE-N-UNV-L940-CD-UPL12

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	373.5	400.2	489.2	508.5	498.7
115°	324.0	344.2	426.5	452.1	449.9
117.5°	274.7	293.2	367.3	389.9	389.1
120°	232.1	249.4	311.4	329.1	329.1
122.5°	197.3	209.6	262.6	277.1	276.9
125°	165.1	175.2	220.0	233.3	233.2
127.5°	138.9	146.1	185.4	198.6	197.6
130°	122.3	127.8	156.3	171.3	171.3
132.5°	109.2	113.8	135.4	150.3	151.2
135°	98.8	103.4	119.9	134.9	134.9
137.5°	91.8	96.5	107.2	121.1	122.0
140°	84.9	89.5	97.2	110.2	110.2
142.5°	80.6	83.4	89.1	100.1	100.9
145°	77.3	80.0	82.9	91.8	91.7
147.5°	72.9	76.7	79.5	84.4	84.3
150°	70.3	74.3	75.1	78.9	78.0
152.5°	66.9	70.8	71.6	74.5	73.5
155°	64.3	68.2	70.0	71.9	69.9
157.5°	49.6	51.3	51.3	52.2	52.2
160°	47.8	48.7	49.6	49.6	49.6
162.5°	46.1	47.0	47.0	47.8	47.8
165°	45.2	45.2	46.1	46.1	46.1
167.5°	43.5	43.5	44.3	44.3	44.3
170°	42.6	42.6	42.6	43.5	43.5
172.5°	41.7	41.7	41.7	41.7	41.7
175°	40.9	40.9	40.9	40.9	40.9
177.5°	40.0	40.9	40.9	40.9	40.9
180°	40.0	40.0	40.0	40.0	40.0



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	460.2	495.1	571.1	522.5	473.9
110°	422.9	457.2	540.7	542.3	505.0



(END OF REPORT)