

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: P828304

Luminaire Tested: **OHBL-18HE-NL-UNV-L940-CD-UPL18**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P828304
REPORT IS A COMBINATION OF REPORTS P826159 AND G3-2310-221-8
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-18HE-NL-UNV-L940-CD-UPL18
Description:
Light Source: -
Ballast/Driver: -

Summary

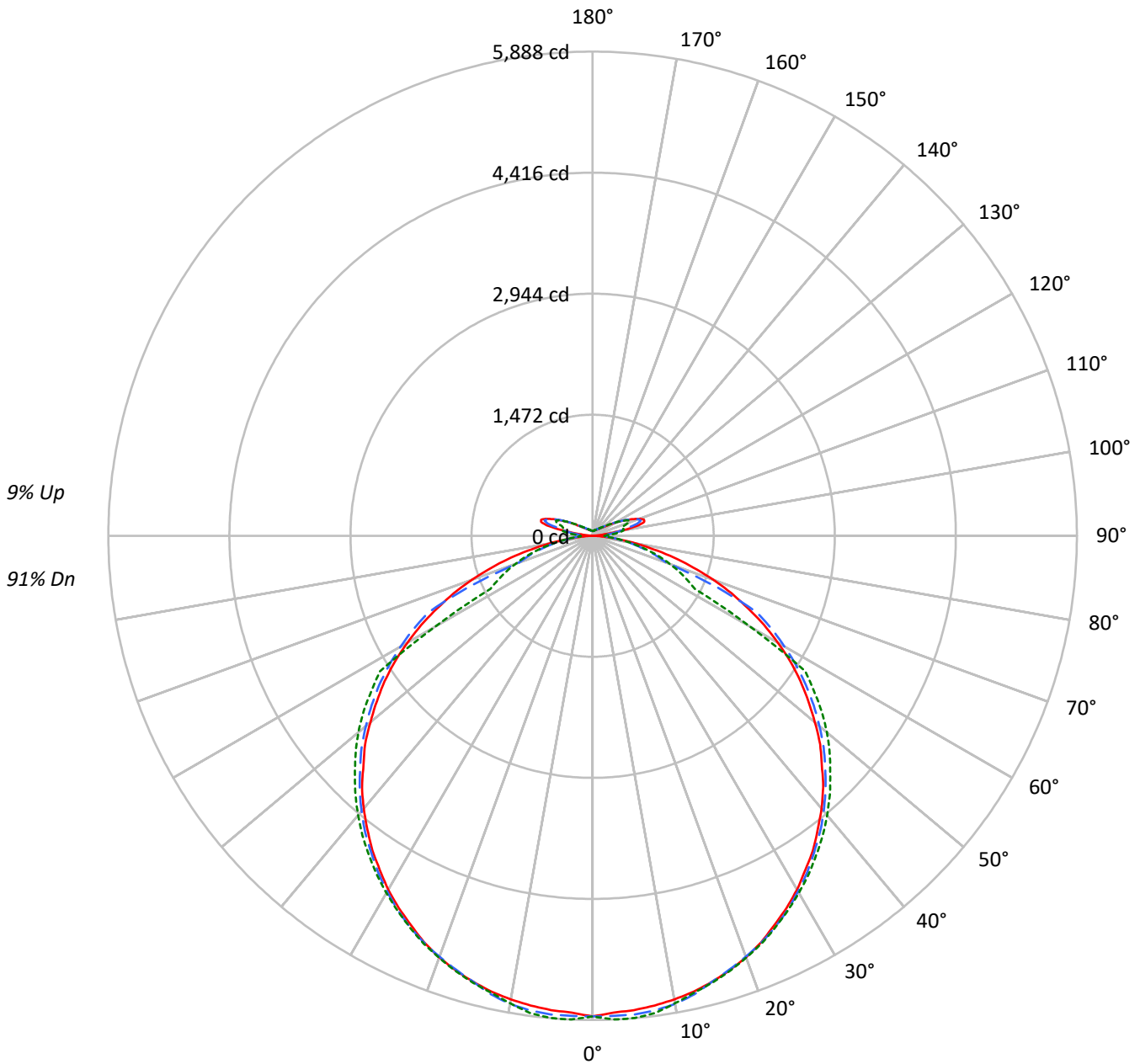
Lumens per Lamp: N/A
Luminaire Lumens: 17966.1 lumens
Efficiency: N/A
Efficacy: 155.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.1')
CIE Type: Direct

Input Watts (W): 115.3
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

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Luminous Intensity Polar Plot





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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	117	117	117	117	113	113	113	113	106	106	106	100	100	100	94	94	94	91																			
1	107	103	99	95	104	100	96	93	94	91	88	88	86	84	83	81	80	77																			
2	98	90	83	78	94	87	81	76	82	77	73	78	74	70	73	70	67	65																			
3	89	79	71	65	86	77	70	64	73	66	61	69	64	59	65	61	57	55																			
4	82	70	62	55	79	68	60	54	64	58	52	61	55	51	58	53	49	47																			
5	75	63	54	47	72	61	53	47	58	51	45	55	49	44	52	47	43	40																			
6	69	56	47	41	67	55	47	41	52	45	40	50	43	39	47	42	38	35																			
7	64	51	42	36	62	50	42	36	47	40	35	45	39	34	43	38	33	31																			
8	60	46	38	32	58	45	37	32	43	36	31	41	35	30	39	34	30	28																			
9	56	42	34	29	54	42	34	29	40	33	28	38	32	27	36	31	27	25																			
10	52	39	31	26	50	38	31	26	37	30	25	35	29	25	34	28	24	23																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9983	9983	9983
5°	9876	9964	10070
10°	9827	9918	9966
15°	9772	9767	9879
20°	9703	9685	9830
25°	9580	9623	9785
30°	9474	9517	9742
35°	9346	9390	9704
40°	9192	9270	9675
45°	8976	9102	9615
50°	8746	8913	9577
55°	8467	8673	9414
60°	8048	8319	7273
65°	7448	7864	4844
70°	6674	4043	4631
75°	5541	3653	4318
80°	3891	3057	3780
85°	1561	2449	3271



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	555.3	3.1
10°-20°	1589.9	8.8
20°-30°	2419.2	13.5
30°-40°	2941.4	16.4
40°-50°	3092.7	17.2
50°-60°	2824.0	15.7
60°-70°	1810.3	10.1
70°-80°	855.2	4.8
80°-90°	241.0	1.3
90°-100°	211.7	1.2
100°-110°	534.2	3.0
110°-120°	448.9	2.5
120°-130°	213.3	1.2
130°-140°	106.6	0.6
140°-150°	61.9	0.3
150°-160°	36.1	0.2
160°-170°	18.7	0.1
170°-180°	5.7	0.0
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0°-30°	4564.4	25.4
0°-40°	7505.7	41.8
0°-60°	13422.5	74.7
0°-90°	16329.1	90.9
90°-120°	1194.8	6.7
90°-150°	1576.5	8.8
90°-180°	1637.0	9.1
0°-180°	17966.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5845	5845	5845	5845	5845	
5°	5790	5813	5843	5875	5887	551
15°	5615	5657	5614	5622	5626	1585
25°	5225	5233	5252	5260	5256	2411
35°	4670	4643	4696	4754	4740	2919
45°	3939	3932	3999	4093	4086	3045
55°	3087	3063	3167	3273	3281	2753
65°	2080	2080	2201	1262	1267	2062
75°	1028	1047	680	716	719	1083
85°	134	170	212	230	217	199
90°	4	79	124	151	153	8
95°	36	101	180	236	257	106
105°	649	650	561	400	369	616
115°	451	458	460	452	445	454
125°	217	228	234	233	231	204
135°	129	131	136	137	138	102
145°	94	96	98	99	99	59
155°	75	76	77	78	78	35
165°	64	65	65	66	66	18
175°	58	58	59	59	59	6
180°	58	58	58	58	58	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5844.8	5844.8	5844.8	5844.8	5844.8
2.5°	5803.7	5823.3	5844.8	5872.5	5887.8
5°	5790.4	5812.9	5842.8	5874.6	5886.8
7.5°	5761.7	5793.5	5822.2	5844.8	5852.0
10°	5725.8	5763.8	5780.2	5778.2	5773.0
12.5°	5677.6	5717.6	5712.5	5688.9	5692.9
15°	5615.0	5657.0	5614.1	5622.2	5626.3
17.5°	5541.2	5582.3	5531.9	5548.4	5549.4
20°	5455.1	5485.8	5446.8	5460.2	5460.2
22.5°	5351.5	5373.0	5356.6	5365.9	5367.9
25°	5225.4	5233.4	5252.0	5260.2	5256.1
27.5°	5104.3	5094.1	5130.0	5149.5	5139.1
30°	4969.9	4953.6	4995.6	5027.4	5015.1
32.5°	4816.1	4805.9	4854.1	4892.0	4884.8
35°	4670.5	4642.8	4696.1	4753.5	4740.2
37.5°	4498.2	4481.8	4542.2	4602.8	4595.7
40°	4330.0	4302.3	4371.0	4442.8	4435.6
42.5°	4149.5	4116.6	4191.5	4277.8	4269.5
45°	3939.2	3932.1	3998.7	4093.1	4085.9
47.5°	3752.6	3716.7	3810.0	3901.3	3909.5
50°	3526.9	3513.7	3598.8	3709.6	3717.7
52.5°	3306.5	3297.3	3386.4	3498.2	3512.6
55°	3087.0	3063.4	3167.0	3272.6	3280.8
57.5°	2852.2	2827.5	2933.2	3048.1	3065.5
60°	2600.9	2577.3	2693.1	2799.9	2226.6
62.5°	2349.6	2333.2	2454.3	1738.4	1401.0
65°	2079.9	2079.9	2200.8	1262.4	1266.6
67.5°	1827.7	1811.2	1641.0	1134.2	1134.2
70°	1556.8	1563.0	945.5	993.9	994.8
72.5°	1285.0	1307.6	816.4	855.3	857.4
75°	1027.6	1047.2	679.9	715.9	718.9
77.5°	754.9	580.4	546.6	574.4	575.4
80°	530.2	366.1	418.5	445.1	442.0
82.5°	309.7	256.4	306.7	326.2	325.1
85°	134.3	170.2	212.3	229.8	217.4
87.5°	43.0	105.6	132.2	142.6	141.5
90°	3.5	79.2	123.9	150.8	153.3
92.5°	11.3	73.7	129.9	168.7	176.6
95°	36.1	101.0	179.9	236.5	257.4
97.5°	171.6	206.7	255.1	316.9	332.9
100°	351.6	384.3	339.6	373.8	380.1
102.5°	552.0	560.4	414.2	389.3	385.2
105°	649.4	649.5	560.7	399.9	369.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	529.6	535.1	527.8	510.8	481.8
115°	451.2	458.4	460.5	452.3	445.2
117.5°	379.9	382.6	384.3	382.6	383.4
120°	317.3	323.4	326.9	324.3	322.6
122.5°	265.2	273.0	277.4	274.7	273.0
125°	217.4	227.8	233.9	233.0	231.3
127.5°	184.3	192.1	200.0	199.1	197.4
130°	160.0	166.1	171.3	172.2	173.0
132.5°	143.5	146.1	151.3	152.2	153.9
135°	128.7	131.3	135.6	137.4	138.2
137.5°	117.4	120.0	123.5	125.2	126.1
140°	107.8	110.4	113.0	114.8	115.6
142.5°	100.0	102.6	105.2	106.1	106.9
145°	93.9	95.6	98.2	99.1	99.1
147.5°	87.8	89.6	91.3	93.0	93.0
150°	82.6	84.3	86.1	86.9	87.8
152.5°	79.1	80.0	81.7	82.6	82.6
155°	74.8	76.5	77.4	78.2	78.2
157.5°	72.2	73.0	73.9	74.8	74.8
160°	69.6	69.6	70.4	71.3	71.3
162.5°	66.9	66.9	67.8	68.7	68.7
165°	64.3	65.2	65.2	66.1	66.1
167.5°	62.6	62.6	63.5	63.5	64.3
170°	60.9	60.9	61.7	61.7	61.7
172.5°	59.1	60.0	60.0	60.0	60.0
175°	58.3	58.3	59.1	59.1	59.1
177.5°	57.4	58.3	58.3	58.3	58.3
180°	58.3	58.3	58.3	58.3	58.3



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	655.5	660.5	614.3	475.2	393.4
110°	601.7	611.7	588.7	532.5	465.2



(END OF REPORT)