

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: P828305

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P828305
REPORT IS A COMBINATION OF REPORTS P826231 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-NL-UNV-L940-CD-UPL24
Description:
Light Source: -
Ballast/Driver: -

Summary

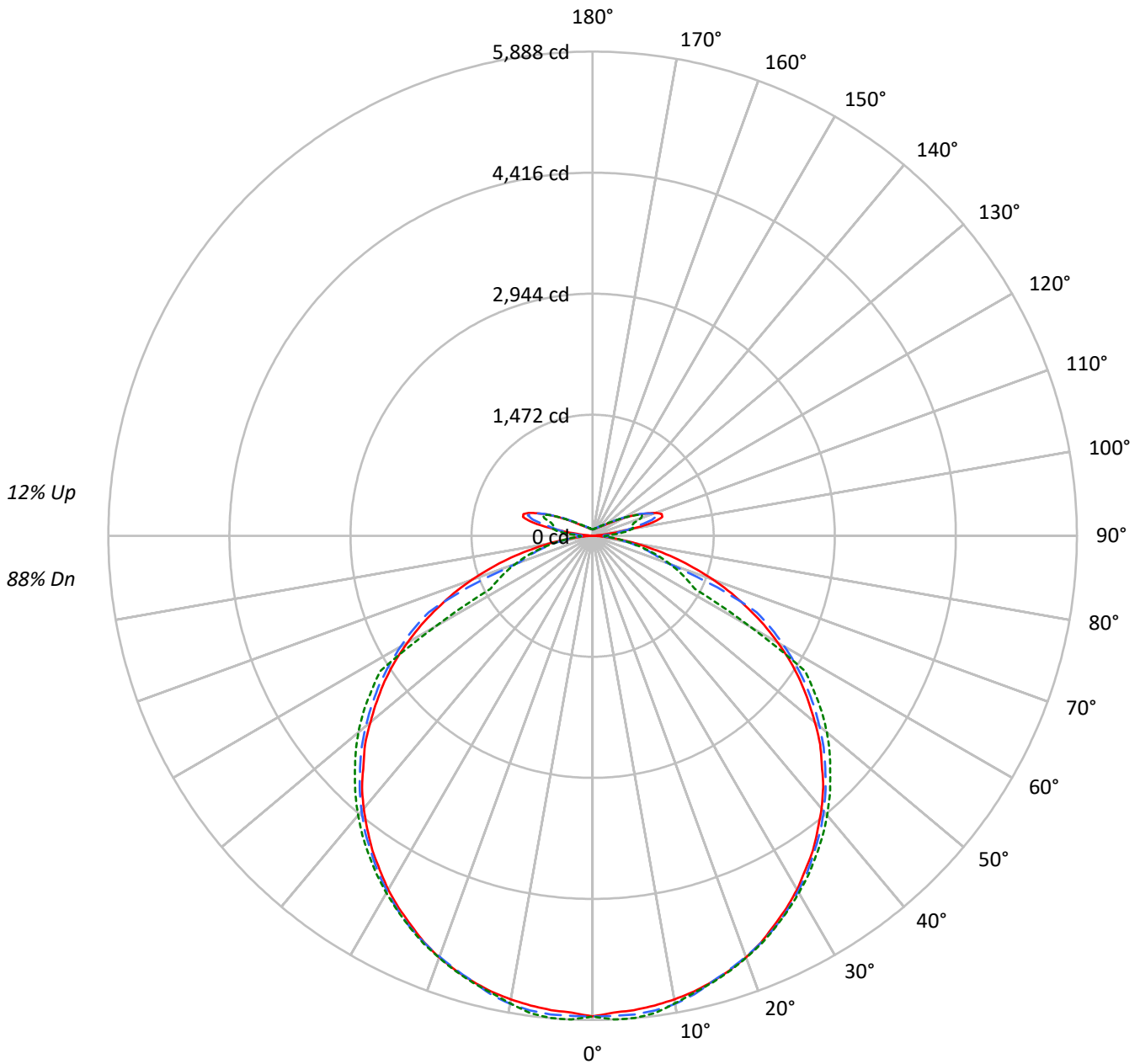
Lumens per Lamp: N/A
Luminaire Lumens: 18514.2 lumens
Efficiency: N/A
Efficacy: 153.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.1')
CIE Type: Semi-Direct

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

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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	116	116	116	116	112	112	112	112	105	105	105	98	98	98	91	91	91	88																			
1	107	102	98	94	103	99	95	92	92	89	87	86	84	82	81	79	78	75																			
2	97	89	83	77	93	86	81	75	81	76	72	76	72	69	71	68	65	63																			
3	89	79	71	64	85	76	69	63	71	65	61	67	62	58	63	59	56	53																			
4	81	70	61	55	78	67	60	54	64	57	52	60	54	50	56	52	48	45																			
5	75	62	53	47	72	60	52	46	57	50	45	54	48	43	51	46	42	39																			
6	69	56	47	41	66	54	46	40	51	44	39	49	42	38	46	41	37	34																			
7	64	51	42	36	61	49	41	36	47	40	34	44	38	33	42	37	32	30																			
8	59	46	38	32	57	45	37	32	43	36	31	40	34	30	38	33	29	27																			
9	55	42	34	29	53	41	34	28	39	32	28	37	31	27	35	30	26	24																			
10	52	39	31	26	50	38	31	26	36	30	25	34	29	24	33	28	24	22																			

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	3.0
10°-20°	1589.9	8.6
20°-30°	2419.2	13.1
30°-40°	2941.4	15.9
40°-50°	3092.7	16.7
50°-60°	2824.0	15.3
60°-70°	1810.3	9.8
70°-80°	855.2	4.6
80°-90°	242.5	1.3
90°-100°	264.4	1.4
100°-110°	717.0	3.9
110°-120°	605.1	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°	4564.4	24.7
0°-40°	7505.7	40.5
0°-60°	13422.5	72.5
0°-90°	16330.5	88.2
90°-120°	1586.5	8.6
90°-150°	2102.1	11.4
90°-180°	2184.0	11.8
0°-180°	18514.2	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	87	135	166	170	9
95°	49	126	217	290	316	145
105°	877	874	750	539	495	833
115°	607	615	618	613	602	610
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	



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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°	4.3	87.0	135.2	165.6	169.8
92.5°	14.8	84.2	144.7	191.3	203.5
95°	49.1	126.2	217.3	289.5	315.6
97.5°	236.0	274.5	320.3	401.2	432.0
100°	482.0	526.9	443.1	485.9	494.9
102.5°	746.8	751.6	556.8	514.5	508.6
105°	877.2	873.8	750.2	539.0	495.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	708.7	721.2	710.3	687.3	652.2
115°	606.8	614.9	617.9	613.1	601.7
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°	880.7	889.2	825.5	643.0	530.8
110°	813.9	824.8	788.7	717.7	625.2



(END OF REPORT)