

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: P828177

Luminaire Tested: **OHB-18SE-NL-UNV-L940-CD-UPL12**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P828177
REPORT IS A COMBINATION OF REPORTS P826033 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: OHB-18SE-NL-UNV-L940-CD-UPL12
Description:
Light Source: -
Ballast/Driver: -

Summary

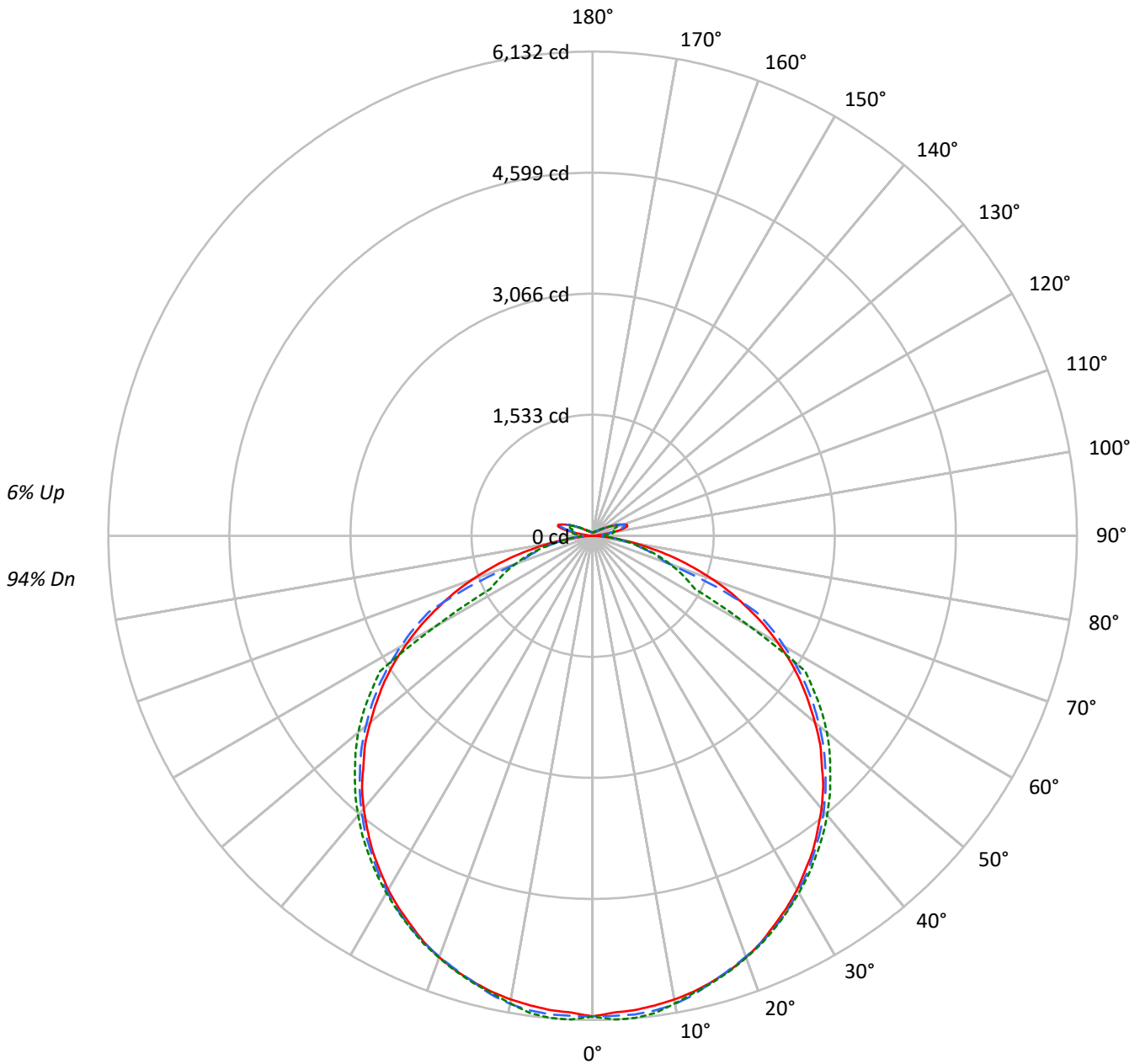
Lumens per Lamp: N/A
Luminaire Lumens: 18173.4 lumens
Efficiency: N/A
Efficacy: 156.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.93' x L: 1.67' x H: 0.1')
CIE Type: Direct

Input Watts (W): 116
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

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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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	96	96	96	94																			
1	108	103	99	96	104	100	97	93	95	92	89	90	88	85	85	84	82	79																			
2	98	90	84	78	95	88	82	77	83	78	74	79	75	71	75	72	69	67																			
3	90	79	72	65	87	77	70	64	74	67	62	70	65	60	67	62	59	56																			
4	82	70	62	55	79	69	61	55	65	59	53	62	57	52	59	55	50	48																			
5	75	63	54	48	73	61	53	47	59	51	46	56	50	45	54	48	44	42																			
6	70	57	48	42	67	55	47	41	53	46	40	51	44	39	48	43	39	36																			
7	65	51	43	37	62	50	42	36	48	41	36	46	40	35	44	39	34	32																			
8	60	47	38	33	58	46	38	32	44	37	32	42	36	31	41	35	31	29																			
9	56	43	35	29	54	42	34	29	40	33	29	39	33	28	37	32	28	26																			
10	52	39	32	26	51	39	31	26	37	30	26	36	30	25	35	29	25	23																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20334	20334	20334
5°	20117	20265	20467
10°	20016	20139	20210
15°	19904	19802	19988
20°	19765	19603	19842
25°	19513	19445	19702
30°	19298	19193	19563
35°	19037	18900	19429
40°	18723	18617	19307
45°	18284	18234	19115
50°	17815	17802	18954
55°	17246	17262	18532
60°	16394	16483	14219
65°	15170	15493	9386
70°	13595	7902	8860
75°	11286	7059	8101
80°	7926	5791	6848
85°	3181	4453	5453



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	578.3	3.2
10°-20°	1655.9	9.1
20°-30°	2519.5	13.9
30°-40°	3063.4	16.9
40°-50°	3221.0	17.7
50°-60°	2941.2	16.2
60°-70°	1885.4	10.4
70°-80°	890.6	4.9
80°-90°	249.7	1.4
90°-100°	168.8	0.9
100°-110°	377.8	2.1
110°-120°	314.1	1.7
120°-130°	148.1	0.8
130°-140°	74.1	0.4
140°-150°	43.1	0.2
150°-160°	25.2	0.1
160°-170°	13.1	0.1
170°-180°	4.0	0.0
0°-30°	4753.7	26.2
0°-40°	7817.1	43.0
0°-60°	13979.3	76.9
0°-90°	17005.1	93.6
90°-120°	860.7	4.7
90°-150°	1126.1	6.2
90°-180°	1168.0	6.4
0°-180°	18173.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6087	6087	6087	6087	6087	
5°	6031	6054	6085	6118	6131	574
15°	5848	5892	5847	5855	5860	1651
25°	5442	5450	5470	5478	5474	2511
35°	4864	4835	4891	4951	4937	3040
45°	4103	4095	4165	4263	4255	3171
55°	3215	3190	3298	3408	3417	2867
65°	2166	2166	2292	1315	1319	2148
75°	1070	1091	708	746	749	1128
85°	140	177	221	239	226	207
90°	3	76	119	143	145	8
95°	25	81	145	196	212	73
105°	455	456	396	286	263	431
115°	318	320	324	319	307	317
125°	153	159	163	161	162	143
135°	89	91	95	96	96	71
145°	65	67	68	69	70	41
155°	52	53	54	55	55	24
165°	45	45	46	46	46	13
175°	41	41	41	41	41	4
180°	40	40	40	40	40	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6087.2	6087.2	6087.2	6087.2	6087.2
2.5°	6044.6	6064.9	6087.2	6116.1	6132.0
5°	6030.6	6054.1	6085.1	6118.3	6131.1
7.5°	6000.7	6033.8	6063.8	6087.2	6094.7
10°	5963.3	6002.9	6019.9	6017.9	6012.5
12.5°	5913.1	5954.8	5949.5	5924.8	5929.2
15°	5848.0	5891.7	5846.9	5855.4	5859.7
17.5°	5771.1	5813.8	5761.5	5778.5	5779.6
20°	5681.4	5713.4	5672.8	5686.7	5686.7
22.5°	5573.5	5595.9	5578.8	5588.4	5590.6
25°	5442.1	5450.5	5469.8	5478.4	5474.1
27.5°	5316.1	5305.4	5342.8	5363.1	5352.3
30°	5176.2	5159.0	5202.8	5236.0	5223.2
32.5°	5015.9	5005.2	5055.5	5094.9	5087.5
35°	4864.3	4835.4	4891.0	4950.8	4936.9
37.5°	4684.7	4667.7	4730.6	4793.8	4786.3
40°	4509.6	4480.8	4552.3	4627.1	4619.6
42.5°	4321.7	4287.4	4365.4	4455.2	4446.6
45°	4102.6	4095.2	4164.6	4262.9	4255.4
47.5°	3908.3	3870.9	3968.1	4063.2	4071.8
50°	3673.2	3659.4	3748.1	3863.5	3871.9
52.5°	3443.7	3434.0	3526.9	3643.4	3658.3
55°	3215.0	3190.4	3298.3	3408.4	3417.0
57.5°	2970.5	2944.8	3054.9	3174.5	3192.6
60°	2708.8	2684.1	2804.8	2916.0	2318.9
62.5°	2447.1	2430.0	2556.1	1810.5	1459.1
65°	2166.1	2166.1	2292.1	1314.9	1319.1
67.5°	1903.5	1886.3	1709.1	1181.3	1181.3
70°	1621.4	1627.9	984.7	1035.1	1036.1
72.5°	1338.3	1361.9	850.3	890.7	892.9
75°	1070.2	1090.6	708.2	745.5	748.8
77.5°	786.2	604.5	569.3	598.2	599.2
80°	552.2	381.3	435.9	463.5	460.4
82.5°	322.5	267.0	319.3	339.7	338.6
85°	139.9	177.3	221.1	239.3	226.4
87.5°	44.8	110.1	137.7	148.5	147.4
90°	2.6	75.5	119.1	143.3	144.8
92.5°	7.8	66.9	118.5	153.8	159.2
95°	24.9	81.4	145.4	196.0	211.6
97.5°	119.5	150.2	194.5	245.2	256.0
100°	242.1	276.3	247.9	277.7	283.2
102.5°	387.0	391.4	295.0	282.8	279.6
105°	454.8	456.0	396.1	285.7	263.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	369.9	374.6	375.2	358.1	335.8
115°	318.3	320.5	324.5	318.7	307.1
117.5°	262.6	266.0	268.7	266.0	264.3
120°	220.0	225.2	226.9	223.4	223.4
122.5°	185.2	189.5	192.1	189.5	190.4
125°	153.0	159.1	162.6	160.8	161.7
127.5°	127.8	133.0	139.1	138.2	138.2
130°	111.3	114.8	119.1	120.0	120.0
132.5°	99.1	101.7	105.2	106.1	106.9
135°	88.7	91.3	94.8	95.6	95.6
137.5°	81.7	83.5	86.1	86.9	87.8
140°	74.8	77.4	79.1	80.0	80.0
142.5°	69.6	71.3	73.0	73.9	74.8
145°	65.2	66.9	67.8	68.7	69.6
147.5°	60.9	62.6	64.3	64.3	65.2
150°	58.3	59.1	60.0	60.9	60.9
152.5°	54.8	55.6	56.5	57.4	57.4
155°	52.2	53.0	53.9	54.8	54.8
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°	457.4	464.5	433.2	334.0	271.8
110°	420.3	429.6	413.6	373.8	321.9



(END OF REPORT)