

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: P828172

Luminaire Tested: **OHB-18SE-MFL-UNV-L940-CD-UPL18**

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P828172
REPORT IS A COMBINATION OF REPORTS P826139 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: OHB-18SE-MFL-UNV-L940-CD-UPL18
Description:
Light Source: -
Ballast/Driver: -

Summary

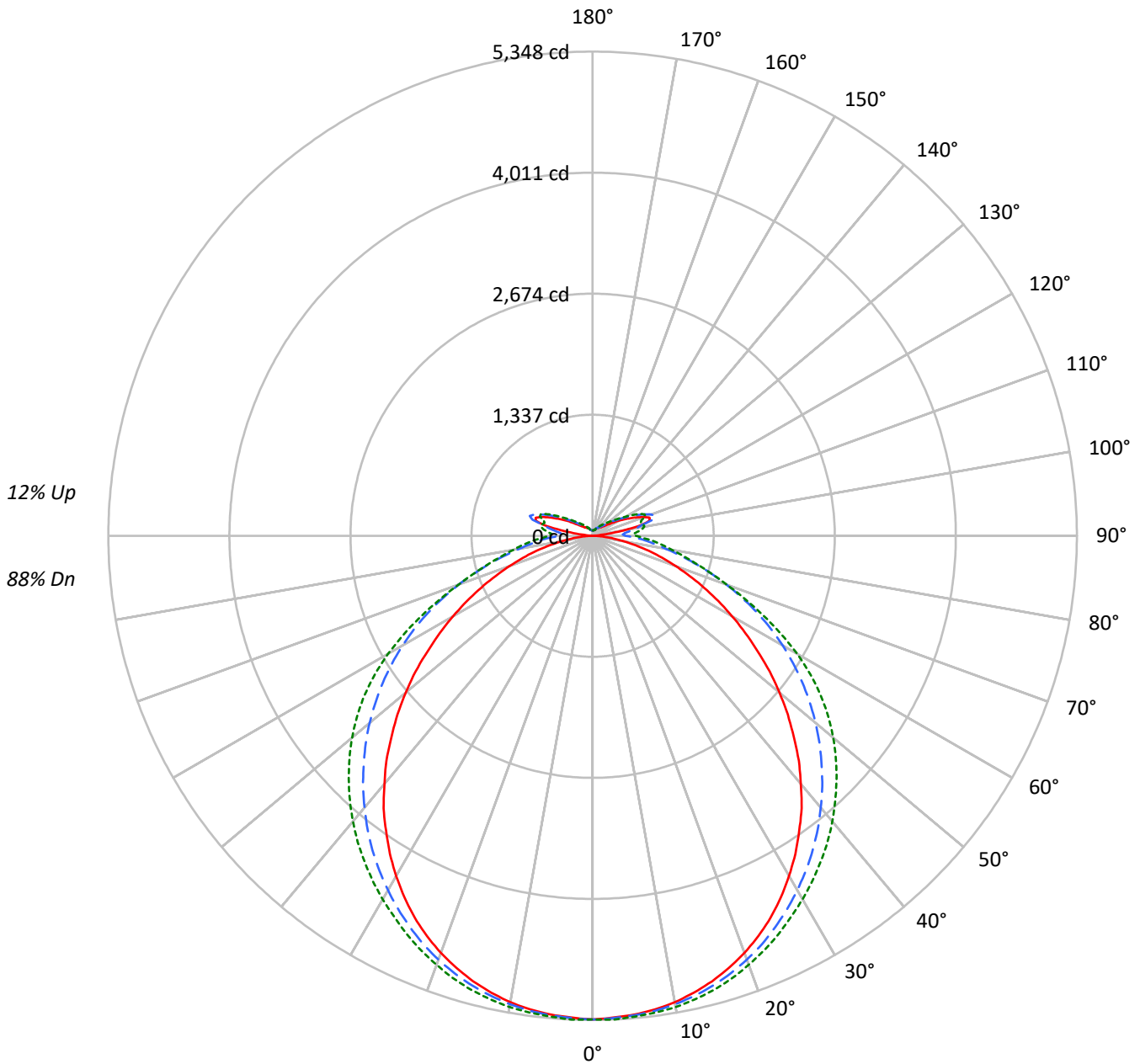
Lumens per Lamp: N/A
Luminaire Lumens: 17547.0 lumens
Efficiency: N/A
Efficacy: 146.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1.93' x L: 1.67' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 119.9
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					20										
RC	80					70					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	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	106	101	96	92	102	97	93	90	91	88	85	85	82	80	79	77	75	73													
2	96	87	81	75	92	85	78	73	79	74	70	74	70	66	69	66	63	60													
3	87	77	69	62	84	74	67	61	70	63	58	65	60	56	61	57	53	51													
4	80	68	59	52	77	66	58	51	62	55	49	58	52	48	55	50	46	43													
5	73	61	52	45	70	59	50	44	55	48	43	52	46	41	49	44	40	37													
6	68	55	46	39	65	53	45	39	50	43	37	47	41	36	45	39	35	33													
7	63	49	41	35	60	48	40	34	45	38	33	43	37	32	41	35	31	29													
8	58	45	37	31	56	44	36	30	41	34	29	39	33	29	37	32	28	26													
9	54	41	33	28	52	40	32	27	38	31	26	36	30	26	34	29	25	23													
10	51	38	30	25	49	37	30	25	35	29	24	34	28	23	32	27	23	21													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17849	17849	17849
5°	17648	17626	17743
10°	17439	17418	17660
15°	17159	17180	17548
20°	16815	16901	17379
25°	16385	16565	17209
30°	15822	16205	17038
35°	15160	15824	16892
40°	14383	15389	16750
45°	13484	14919	16567
50°	12508	14438	16343
55°	11335	13859	15955
60°	10135	13182	15165
65°	8834	12332	13853
70°	7434	11264	12432
75°	6010	10025	11492
80°	4286	9015	11471
85°	2386	8883	12976



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	506.3	2.9
10°-20°	1452.4	8.3
20°-30°	2196.6	12.5
30°-40°	2637.0	15.0
40°-50°	2723.6	15.5
50°-60°	2450.4	14.0
60°-70°	1845.9	10.5
70°-80°	1114.6	6.4
80°-90°	549.0	3.1
90°-100°	378.3	2.2
100°-110°	648.0	3.7
110°-120°	521.1	3.0
120°-130°	256.8	1.5
130°-140°	129.4	0.7
140°-150°	73.0	0.4
150°-160°	40.2	0.2
160°-170°	18.7	0.1
170°-180°	5.7	0.0
0°-30°	4155.3	23.7
0°-40°	6792.3	38.7
0°-60°	11966.3	68.2
0°-90°	15475.8	88.2
90°-120°	1547.4	8.8
90°-150°	2006.6	11.4
90°-180°	2071.0	11.8
0°-180°	17547.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5343	5343	5343	5343	5343	
5°	5309	5323	5317	5338	5331	504
15°	5095	5120	5143	5186	5191	1436
25°	4653	4704	4770	4845	4857	2140
35°	3978	4071	4238	4366	4392	2487
45°	3140	3298	3574	3769	3809	2424
55°	2224	2454	2827	3040	3077	1994
65°	1357	1635	2001	2100	2077	1349
75°	640	918	1158	1189	1177	682
85°	133	352	581	660	672	154
90°	4	159	362	458	479	11
95°	40	164	361	462	494	109
105°	653	692	688	572	550	620
115°	456	481	539	564	568	461
125°	228	242	288	310	312	214
135°	138	143	163	184	191	109
145°	107	107	111	123	127	67
155°	88	91	90	90	91	39
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°	5343.1	5343.1	5343.1	5343.1	5343.1
2.5°	5327.3	5340.4	5332.6	5349.6	5348.3
5°	5309.0	5323.4	5316.9	5337.8	5331.3
7.5°	5277.7	5293.4	5292.0	5315.6	5313.0
10°	5231.9	5248.9	5254.1	5285.5	5285.5
12.5°	5169.1	5191.4	5204.4	5242.3	5243.6
15°	5094.6	5119.5	5142.9	5186.1	5191.4
17.5°	5004.3	5035.7	5068.4	5118.2	5124.7
20°	4902.4	4937.7	4982.1	5034.4	5042.3
22.5°	4784.6	4826.5	4884.0	4945.5	4954.7
25°	4652.6	4703.6	4770.3	4844.8	4856.6
27.5°	4502.2	4561.1	4651.3	4735.0	4745.4
30°	4338.8	4408.1	4520.5	4619.9	4636.9
32.5°	4166.2	4245.9	4384.5	4495.7	4519.2
35°	3977.9	4070.7	4238.1	4366.3	4392.3
37.5°	3792.2	3894.2	4083.8	4230.2	4261.6
40°	3575.1	3701.9	3919.0	4081.2	4119.1
42.5°	3371.1	3508.4	3754.3	3930.8	3967.4
45°	3139.7	3297.9	3573.8	3768.6	3809.2
47.5°	2922.6	3093.9	3399.9	3601.2	3643.1
50°	2693.7	2882.0	3214.2	3424.7	3467.9
52.5°	2464.9	2667.6	3021.9	3240.3	3280.8
55°	2224.3	2454.4	2827.2	3040.3	3076.9
57.5°	2000.7	2243.9	2627.0	2829.8	2852.0
60°	1779.7	2032.1	2423.1	2600.9	2608.8
62.5°	1564.0	1829.4	2213.9	2355.1	2344.6
65°	1357.4	1634.6	2000.7	2100.1	2076.6
67.5°	1158.5	1444.9	1782.4	1846.4	1815.1
70°	970.3	1260.6	1570.5	1603.2	1574.4
72.5°	804.2	1085.3	1356.1	1383.5	1362.6
75°	639.5	918.0	1158.5	1188.6	1176.9
77.5°	485.2	755.8	976.8	1016.0	1018.6
80°	349.2	608.1	818.6	880.1	887.9
82.5°	230.1	472.0	686.5	764.9	776.8
85°	133.4	351.8	580.6	660.3	672.2
87.5°	57.6	253.7	466.8	538.7	553.1
90°	3.5	159.0	361.7	457.6	478.9
92.5°	15.2	142.4	332.9	429.6	451.0
95°	39.6	164.2	360.6	461.7	494.3
97.5°	177.4	263.6	422.7	521.1	546.8
100°	357.3	434.9	494.8	564.4	580.2
102.5°	554.7	606.2	558.2	568.3	572.3
105°	653.4	691.8	688.1	571.7	550.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	533.8	562.2	615.8	635.9	619.4
115°	456.5	481.3	539.3	564.2	568.5
117.5°	391.7	408.7	462.7	489.8	494.5
120°	329.1	345.7	396.2	419.8	423.2
122.5°	276.9	291.4	338.8	361.1	363.3
125°	227.8	242.1	287.5	310.1	312.3
127.5°	193.5	203.9	245.7	268.4	270.6
130°	169.1	176.5	210.5	233.6	238.4
132.5°	152.6	157.8	184.0	205.8	212.8
135°	137.8	143.0	163.1	184.4	190.6
137.5°	126.5	131.7	145.7	165.7	171.8
140°	118.2	122.2	131.4	148.8	154.8
142.5°	111.7	114.3	119.5	134.9	139.6
145°	106.9	107.4	111.3	122.7	126.6
147.5°	100.9	102.6	104.3	111.4	115.3
150°	95.6	98.7	99.1	101.3	106.2
152.5°	92.2	94.3	94.8	94.3	96.9
155°	87.8	90.9	90.4	90.0	91.3
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°	659.5	697.4	726.8	633.4	564.3
110°	604.7	644.3	688.9	673.4	619.9



(END OF REPORT)