

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: P828297

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P828297
REPORT IS A COMBINATION OF REPORTS P826061 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-MFL-UNV-L940-CD-UPL12
Description:
Light Source: -
Ballast/Driver: -

Summary

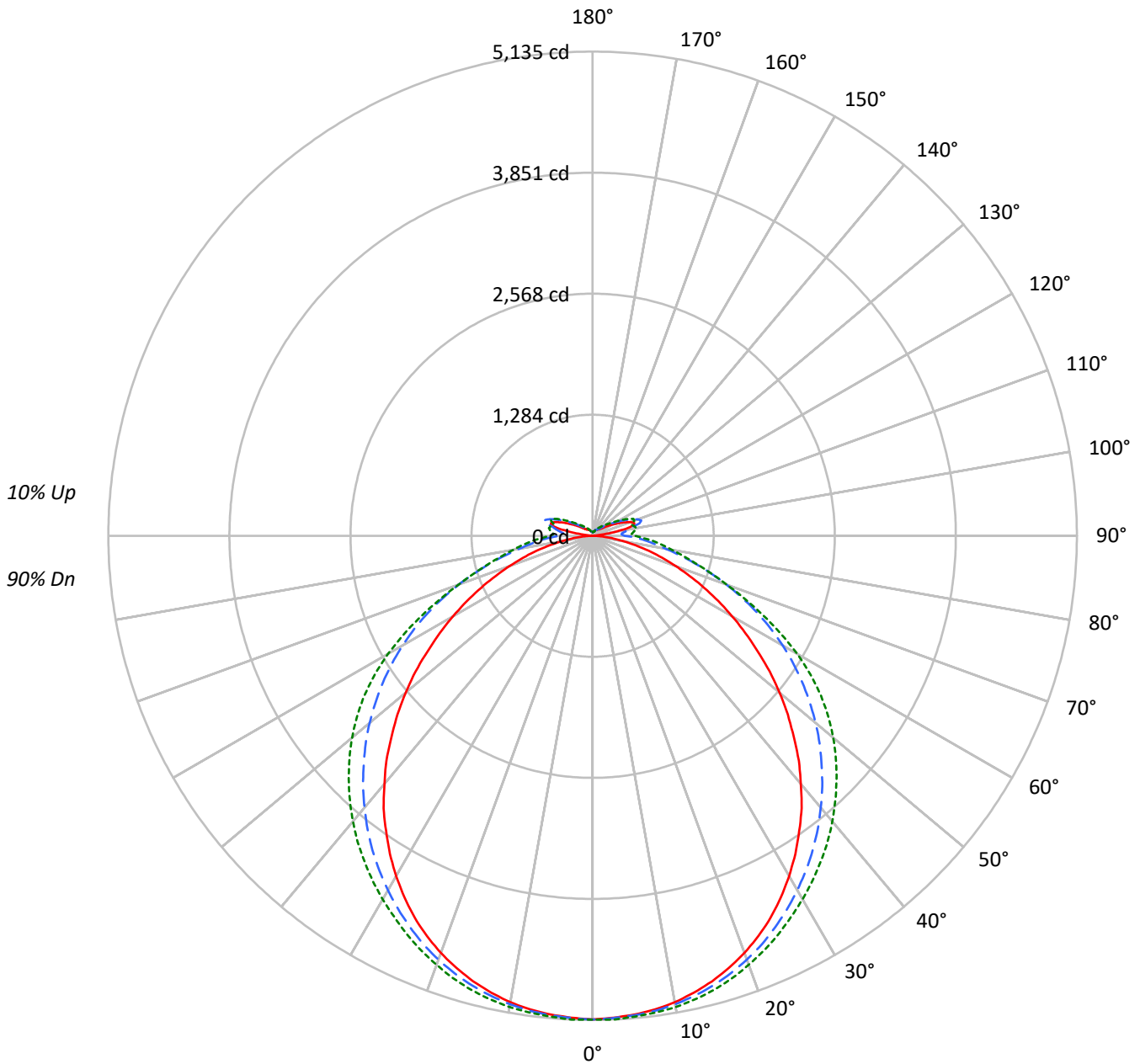
Lumens per Lamp: N/A
Luminaire Lumens: 16437.1 lumens
Efficiency: N/A
Efficacy: 147.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')
CIE Type: Direct

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

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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	99	99	99	93	93	93	90																			
1	106	101	97	93	102	98	94	90	92	89	86	86	84	81	81	79	77	74																			
2	96	88	81	75	93	85	79	73	80	75	70	75	71	67	71	68	64	62																			
3	88	77	69	62	84	75	67	61	70	64	59	66	61	57	63	58	54	52																			
4	80	68	59	53	77	66	58	52	63	56	50	59	53	48	56	51	47	44																			
5	74	61	52	45	71	59	51	45	56	49	43	53	47	42	50	45	41	38																			
6	68	55	46	39	66	53	45	39	51	43	38	48	42	37	46	40	36	33																			
7	63	50	41	35	61	48	40	34	46	39	33	44	37	33	42	36	32	30																			
8	59	45	37	31	57	44	36	31	42	35	30	40	34	29	38	33	28	26																			
9	55	41	33	28	53	40	33	27	39	32	27	37	31	26	35	30	26	24																			
10	51	38	30	25	50	37	30	25	36	29	24	34	28	24	33	27	23	21																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8763	8763	8763
5°	8664	8676	8743
10°	8562	8595	8734
15°	8424	8500	8711
20°	8255	8384	8661
25°	8044	8240	8611
30°	7768	8085	8563
35°	7443	7920	8531
40°	7061	7729	8504
45°	6620	7522	8462
50°	6141	7313	8406
55°	5565	7057	8277
60°	4976	6755	7950
65°	4337	6371	7362
70°	3650	5884	6734
75°	2951	5319	6403
80°	2104	4900	6709
85°	1171	5047	8410



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	486.1	3.0
10°-20°	1394.6	8.5
20°-30°	2109.2	12.8
30°-40°	2532.1	15.4
40°-50°	2615.2	15.9
50°-60°	2352.9	14.3
60°-70°	1772.4	10.8
70°-80°	1070.2	6.5
80°-90°	526.2	3.2
90°-100°	323.7	2.0
100°-110°	485.7	3.0
110°-120°	382.9	2.3
120°-130°	189.9	1.2
130°-140°	96.1	0.6
140°-150°	53.8	0.3
150°-160°	29.1	0.2
160°-170°	13.1	0.1
170°-180°	4.0	0.0
0°-30°	3989.9	24.3
0°-40°	6522.0	39.7
0°-60°	11490.1	69.9
0°-90°	14858.8	90.4
90°-120°	1192.4	7.3
90°-150°	1532.2	9.3
90°-180°	1578.0	9.6
0°-180°	16437.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5130	5130	5130	5130	5130	
5°	5098	5112	5105	5125	5119	484
15°	4892	4916	4938	4980	4985	1379
25°	4468	4516	4580	4652	4663	2055
35°	3820	3909	4069	4192	4218	2388
45°	3015	3167	3432	3619	3658	2327
55°	2136	2357	2715	2919	2954	1915
65°	1303	1570	1921	2016	1994	1295
75°	614	881	1112	1141	1130	655
85°	128	338	558	634	645	148
90°	3	148	340	429	448	10
95°	28	140	313	405	432	77
105°	458	496	517	450	435	434
115°	323	342	399	426	425	323
125°	163	173	214	235	240	152
135°	98	103	121	141	146	78
145°	78	78	80	91	96	49
155°	65	67	66	66	67	28
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°	5130.4	5130.4	5130.4	5130.4	5130.4
2.5°	5115.3	5127.9	5120.3	5136.7	5135.4
5°	5097.7	5111.6	5105.3	5125.4	5119.1
7.5°	5067.6	5082.7	5081.4	5104.0	5101.6
10°	5023.7	5040.0	5045.0	5075.1	5075.1
12.5°	4963.4	4984.7	4997.3	5033.7	5035.0
15°	4891.8	4915.7	4938.3	4979.7	4984.7
17.5°	4805.2	4835.3	4866.7	4914.4	4920.7
20°	4707.3	4741.2	4783.9	4834.1	4841.6
22.5°	4594.2	4634.4	4689.7	4748.6	4757.5
25°	4467.5	4516.4	4580.4	4652.0	4663.3
27.5°	4323.1	4379.6	4466.2	4546.5	4556.6
30°	4166.1	4232.6	4340.6	4436.1	4452.3
32.5°	4000.3	4076.9	4210.0	4316.8	4339.4
35°	3819.6	3908.7	4069.4	4192.5	4217.6
37.5°	3641.2	3739.2	3921.3	4061.9	4092.0
40°	3432.8	3554.6	3763.0	3918.8	3955.2
42.5°	3236.9	3368.7	3604.8	3774.3	3809.5
45°	3014.7	3166.6	3431.5	3618.6	3657.6
47.5°	2806.3	2970.7	3264.6	3458.0	3498.1
50°	2586.5	2767.4	3086.3	3288.4	3329.9
52.5°	2366.8	2561.5	2901.7	3111.4	3150.3
55°	2135.8	2356.8	2714.6	2919.2	2954.5
57.5°	1921.0	2154.6	2522.5	2717.1	2738.5
60°	1708.9	1951.2	2326.6	2497.4	2505.0
62.5°	1501.7	1756.6	2125.7	2261.3	2251.3
65°	1303.3	1569.5	1921.0	2016.5	1993.9
67.5°	1112.5	1387.5	1711.4	1772.9	1742.8
70°	931.7	1210.4	1508.0	1539.4	1511.7
72.5°	772.2	1042.1	1302.1	1328.4	1308.3
75°	614.0	881.4	1112.5	1141.3	1130.0
77.5°	465.8	725.7	938.0	975.6	978.1
80°	335.3	583.8	786.0	845.0	852.6
82.5°	221.0	453.2	659.2	734.5	745.8
85°	128.1	337.8	557.5	634.1	645.4
87.5°	55.2	243.6	448.3	517.3	531.1
90°	2.6	147.5	339.8	428.7	448.5
92.5°	11.6	129.2	306.7	396.0	414.2
95°	28.0	139.5	313.3	404.7	431.7
97.5°	124.9	203.1	351.5	435.3	455.3
100°	247.5	323.5	394.3	456.6	471.0
102.5°	389.3	434.2	431.7	452.1	456.5
105°	458.3	495.8	517.2	449.5	435.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	373.5	399.9	458.9	477.6	467.8
115°	323.1	341.9	399.2	425.5	425.3
117.5°	273.9	291.2	344.0	369.0	371.1
120°	231.3	246.6	293.4	315.1	320.1
122.5°	196.5	207.1	251.2	272.4	277.0
125°	163.1	172.9	214.1	234.9	239.5
127.5°	136.6	144.3	183.0	204.8	208.6
130°	120.1	124.9	156.8	179.0	182.8
132.5°	107.9	113.0	136.6	157.5	163.5
135°	97.5	102.6	121.1	140.8	145.9
137.5°	90.5	94.8	107.5	125.9	131.7
140°	84.9	88.7	96.7	112.6	117.6
142.5°	80.9	82.6	86.9	101.6	106.2
145°	77.7	78.2	80.3	91.3	95.9
147.5°	73.4	75.1	76.9	81.9	86.6
150°	70.8	72.9	72.5	74.7	78.4
152.5°	67.3	69.5	69.0	68.7	71.2
155°	64.7	66.9	66.4	66.1	67.3
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°	460.9	499.1	540.0	485.1	435.7
110°	422.6	460.1	508.8	508.3	470.3



(END OF REPORT)