

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: P828298

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P828298
REPORT IS A COMBINATION OF REPORTS P826157 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-MFL-UNV-L940-CD-UPL18
Description:
Light Source: -
Ballast/Driver: -

Summary

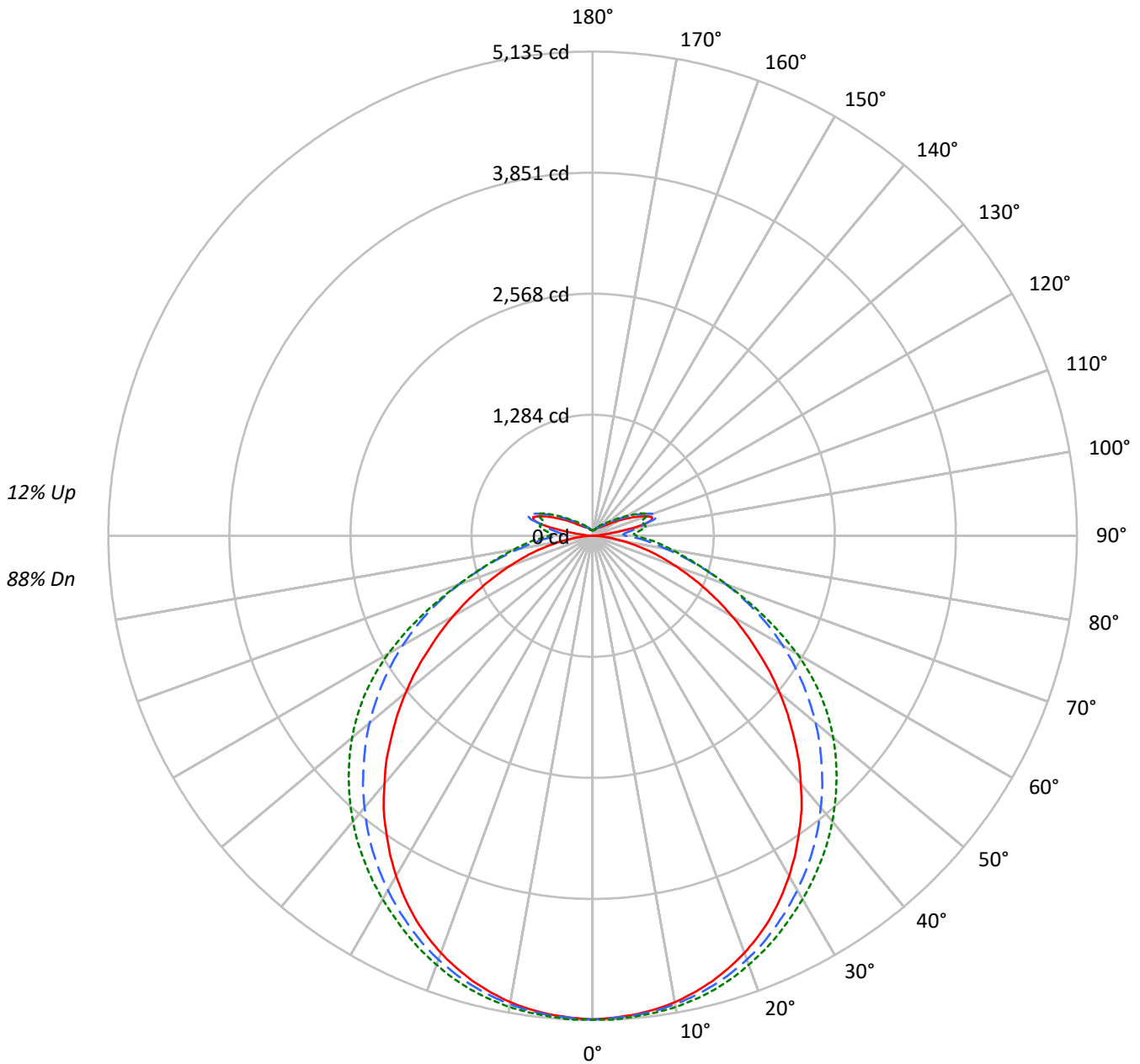
Lumens per Lamp: N/A
Luminaire Lumens: 16910.6 lumens
Efficiency: N/A
Efficacy: 146.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')
CIE Type: Semi-Direct

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				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	0
RCR																					
0	116	116	116	116	112	112	112	112	104	104	104	97	97	97	91	91	91	88			
1	105	101	96	92	101	97	93	89	91	87	84	85	82	80	79	77	75	72			
2	96	87	81	75	92	85	78	73	79	74	69	74	70	66	69	66	63	60			
3	87	77	69	62	84	74	67	61	69	63	58	65	60	56	61	57	53	50			
4	80	68	59	52	77	66	58	51	62	55	49	58	52	47	54	50	46	43			
5	73	61	52	45	70	59	50	44	55	48	43	52	46	41	49	44	40	37			
6	68	54	46	39	65	53	45	39	50	43	37	47	41	36	44	39	35	32			
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	28	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	33	28	23	32	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	2.9
10°-20°	1394.6	8.2
20°-30°	2109.2	12.5
30°-40°	2532.1	15.0
40°-50°	2615.2	15.5
50°-60°	2352.9	13.9
60°-70°	1772.4	10.5
70°-80°	1070.2	6.3
80°-90°	527.3	3.1
90°-100°	369.2	2.2
100°-110°	642.8	3.8
110°-120°	518.0	3.1
120°-130°	255.1	1.5
130°-140°	128.5	0.8
140°-150°	72.5	0.4
150°-160°	40.1	0.2
160°-170°	18.7	0.1
170°-180°	5.7	0.0
0°-30°	3989.9	23.6
0°-40°	6522.0	38.6
0°-60°	11490.1	67.9
0°-90°	14860.0	87.9
90°-120°	1530.0	9.0
90°-150°	1986.1	11.7
90°-180°	2051.0	12.1
0°-180°	16910.6	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°	4	154	348	441	462	11
95°	39	160	351	449	481	109
105°	653	690	682	564	542	620
115°	456	480	536	559	564	460
125°	227	242	285	307	309	214
135°	138	143	162	183	188	109
145°	106	107	111	122	126	67
155°	87	90	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°	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°	3.5	153.5	348.5	440.9	461.6
92.5°	15.0	137.9	321.5	415.2	435.9
95°	39.3	160.4	350.7	449.1	481.2
97.5°	177.1	260.5	414.1	510.1	535.3
100°	357.1	432.2	487.3	554.9	570.1
102.5°	554.4	603.7	551.7	559.9	563.5
105°	653.0	689.6	682.4	564.3	542.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	533.5	560.8	611.9	630.6	613.9
115°	456.1	480.1	535.8	559.4	563.6
117.5°	391.2	407.7	459.6	485.5	490.2
120°	328.7	344.8	393.4	415.9	419.2
122.5°	276.5	290.6	336.4	357.6	359.6
125°	227.4	241.6	285.4	307.1	309.1
127.5°	193.1	203.5	243.9	265.6	267.7
130°	168.8	176.1	208.9	231.2	235.8
132.5°	152.2	157.4	182.7	203.6	210.4
135°	137.5	142.6	162.0	182.6	188.5
137.5°	126.2	131.3	144.8	164.2	170.0
140°	117.9	121.7	130.6	147.4	153.3
142.5°	111.3	113.9	119.0	133.7	138.3
145°	106.4	106.9	110.8	121.7	125.5
147.5°	100.3	102.1	103.8	110.6	114.4
150°	95.1	98.2	98.6	100.8	105.4
152.5°	91.6	93.8	94.2	93.9	96.4
155°	87.3	90.3	89.9	89.6	90.8
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°	659.1	695.6	721.7	626.8	557.4
110°	604.4	642.7	684.4	667.4	613.7



(END OF REPORT)