

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: P828299

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

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P828299
REPORT IS A COMBINATION OF REPORTS P826229 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-MFL-UNV-L940-CD-UPL24
Description:
Light Source: -
Ballast/Driver: -

Summary

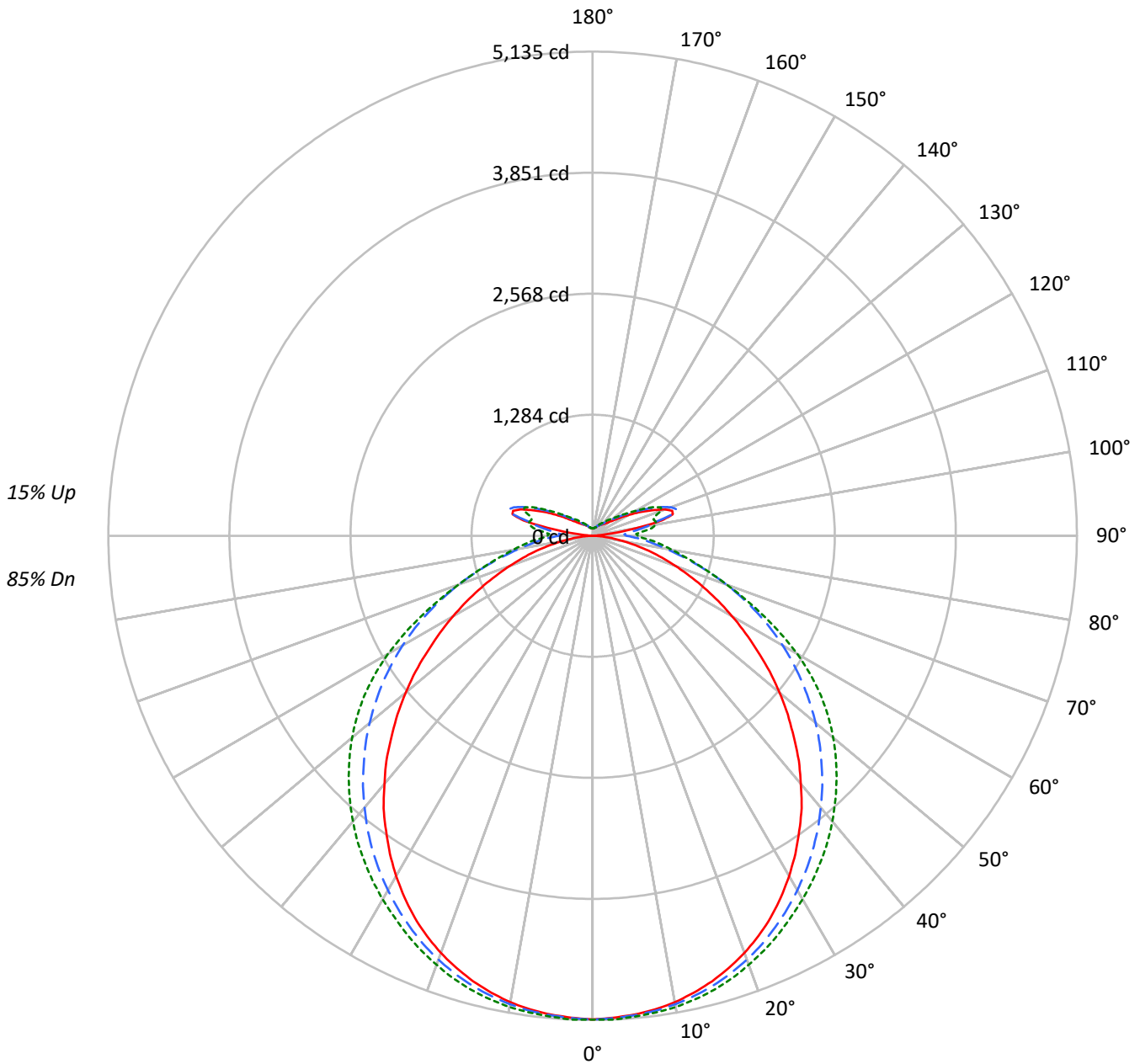
Lumens per Lamp: N/A
Luminaire Lumens: 17458.6 lumens
Efficiency: N/A
Efficacy: 145.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 120.4
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	116	116	116	116	111	111	111	111	103	103	103	95	95	95	88	88	88	85																			
1	105	100	96	92	101	96	92	89	89	86	83	83	80	78	77	75	73	70																			
2	95	87	80	74	91	84	78	72	78	73	68	72	68	65	67	64	61	58																			
3	87	76	68	62	83	74	66	60	68	62	57	64	59	54	59	55	52	49																			
4	79	67	59	52	76	65	57	51	61	54	49	57	51	46	53	48	44	42																			
5	73	60	51	45	70	58	50	44	54	47	42	51	45	40	48	43	38	36																			
6	67	54	45	39	64	52	44	38	49	42	37	46	40	35	43	38	34	31																			
7	62	49	40	34	60	47	39	34	45	38	32	42	36	31	39	34	30	28																			
8	58	45	36	31	56	43	35	30	41	34	29	38	32	28	36	31	27	25																			
9	54	41	33	27	52	40	32	27	37	31	26	35	29	25	33	28	24	22																			
10	51	38	30	25	49	37	29	24	35	28	24	33	27	23	31	26	22	20																			

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	2.8
10°-20°	1394.6	8.0
20°-30°	2109.2	12.1
30°-40°	2532.1	14.5
40°-50°	2615.2	15.0
50°-60°	2352.9	13.5
60°-70°	1772.4	10.2
70°-80°	1070.2	6.1
80°-90°	528.8	3.0
90°-100°	421.9	2.4
100°-110°	825.6	4.7
110°-120°	674.1	3.9
120°-130°	329.7	1.9
130°-140°	166.1	1.0
140°-150°	94.2	0.5
150°-160°	52.6	0.3
160°-170°	25.2	0.1
170°-180°	7.7	0.0
0°-30°	3989.9	22.9
0°-40°	6522.0	37.4
0°-60°	11490.1	65.8
0°-90°	14861.4	85.1
90°-120°	1921.6	11.0
90°-150°	2511.6	14.4
90°-180°	2597.0	14.9
0°-180°	17458.6	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	161	360	456	478	11
95°	52	186	388	502	540	148
105°	881	914	872	703	668	836
115°	612	637	693	720	720	617
125°	304	323	367	389	390	285
135°	183	189	210	230	237	144
145°	139	141	145	156	160	88
155°	113	116	117	116	118	51
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°	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°	4.3	161.4	359.8	455.7	478.1
92.5°	18.5	148.3	336.3	437.8	462.9
95°	52.3	185.6	388.1	502.1	539.5
97.5°	241.4	328.3	479.3	594.4	634.4
100°	487.5	574.8	590.8	667.0	684.9
102.5°	749.2	795.0	694.3	685.1	686.9
105°	880.8	914.0	872.0	703.4	668.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	712.6	746.9	794.5	807.1	784.3
115°	611.7	636.6	693.1	720.2	720.1
117.5°	526.0	540.7	594.4	621.1	625.8
120°	437.3	457.0	509.9	530.7	530.5
122.5°	368.6	385.3	432.0	454.1	452.6
125°	304.0	323.3	367.1	388.8	389.9
127.5°	257.4	271.3	312.6	336.0	339.0
130°	225.3	233.5	269.8	292.0	296.7
132.5°	200.9	209.5	235.7	259.3	263.4
135°	182.7	188.7	209.8	230.4	237.2
137.5°	167.9	173.0	188.3	208.5	213.4
140°	156.2	160.8	171.5	188.2	194.1
142.5°	146.1	149.5	155.5	171.1	174.8
145°	138.6	140.8	144.7	155.6	160.2
147.5°	130.8	134.2	136.0	142.8	146.6
150°	124.7	127.7	129.0	131.2	135.8
152.5°	118.6	121.6	122.9	122.6	125.1
155°	113.4	116.4	116.9	116.5	117.7
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°	884.3	924.2	933.0	794.6	694.8
110°	816.5	855.7	884.4	852.6	773.7



(END OF REPORT)