

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: P827999

Luminaire Tested: **OHBL-18HE-MFL-UNV-L935-CD-UPL24**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P827999
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-L935-CD-UPL24
Description:
Light Source: -
Ballast/Driver: -

Summary

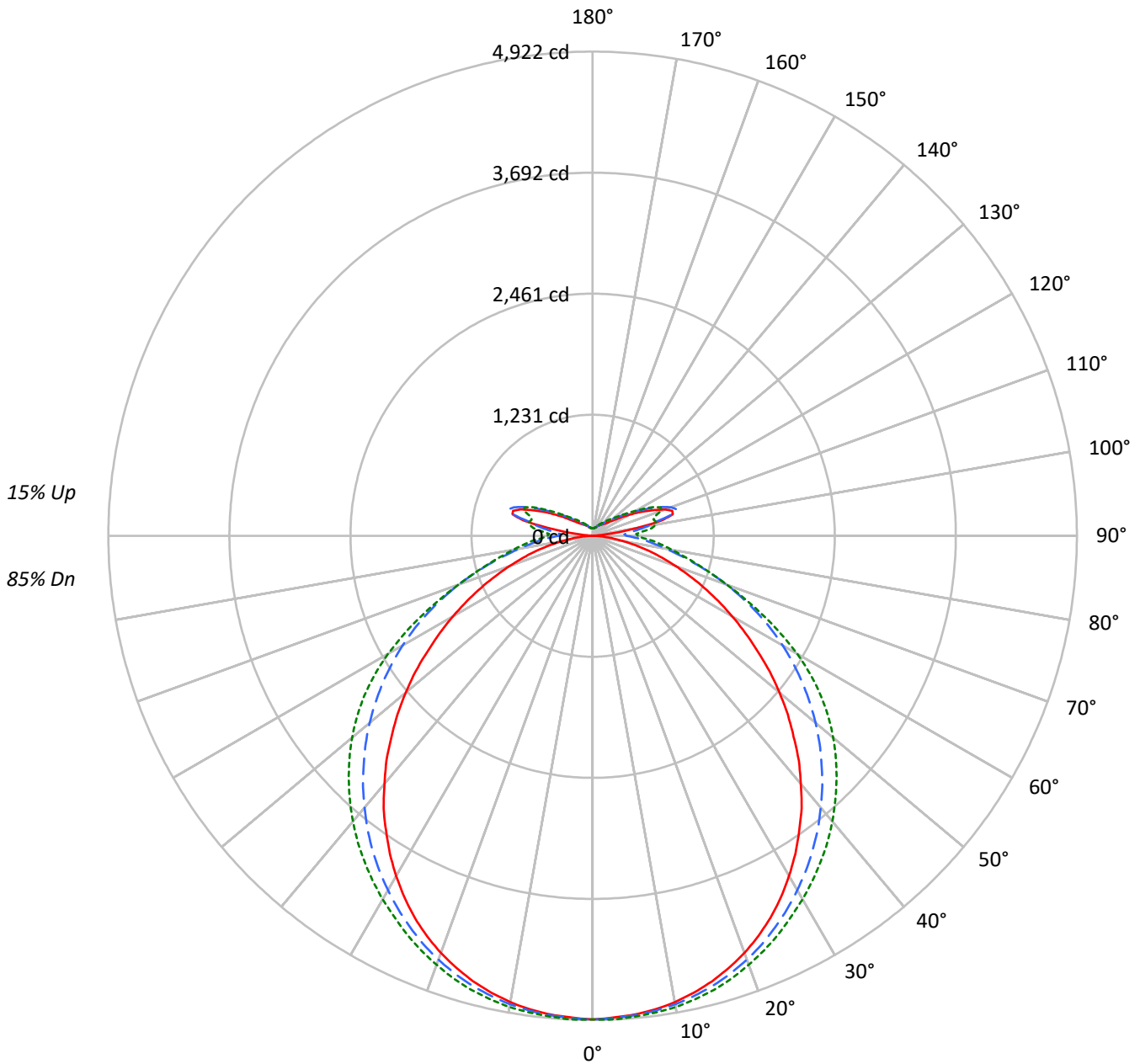
Lumens per Lamp: N/A
Luminaire Lumens: 16733.6 lumens
Efficiency: N/A
Efficacy: 139.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 120.4
Input Voltage (V): NR
Input Current (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									
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°	8399	8399	8399
5°	8304	8315	8380
10°	8206	8238	8371
15°	8074	8147	8349
20°	7913	8036	8301
25°	7710	7898	8254
30°	7445	7749	8207
35°	7134	7591	8176
40°	6768	7408	8151
45°	6345	7210	8110
50°	5886	7009	8057
55°	5334	6763	7933
60°	4769	6475	7620
65°	4157	6107	7056
70°	3498	5639	6454
75°	2828	5098	6138
80°	2016	4696	6430
85°	1123	4837	8061



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	465.9	2.8
10°-20°	1336.7	8.0
20°-30°	2021.6	12.1
30°-40°	2426.9	14.5
40°-50°	2506.6	15.0
50°-60°	2255.1	13.5
60°-70°	1698.8	10.2
70°-80°	1025.8	6.1
80°-90°	506.8	3.0
90°-100°	404.4	2.4
100°-110°	791.3	4.7
110°-120°	646.2	3.9
120°-130°	316.0	1.9
130°-140°	159.2	1.0
140°-150°	90.3	0.5
150°-160°	50.5	0.3
160°-170°	24.2	0.1
170°-180°	7.4	0.0
0°-30°	3824.2	22.9
0°-40°	6251.1	37.4
0°-60°	11012.8	65.8
0°-90°	14244.2	85.1
90°-120°	1841.8	11.0
90°-150°	2407.4	14.4
90°-180°	2489.0	14.9
0°-180°	16733.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4917	4917	4917	4917	4917	
5°	4886	4899	4893	4912	4906	464
15°	4689	4712	4733	4773	4778	1322
25°	4282	4329	4390	4459	4470	1970
35°	3661	3746	3900	4018	4042	2289
45°	2890	3035	3289	3468	3506	2231
55°	2047	2259	2602	2798	2832	1835
65°	1249	1504	1841	1933	1911	1241
75°	588	845	1066	1094	1083	628
85°	123	324	534	608	619	142
90°	4	155	345	437	458	11
95°	50	178	372	481	517	142
105°	844	876	836	674	640	802
115°	586	610	664	690	690	591
125°	291	310	352	373	374	273
135°	175	181	201	221	227	138
145°	133	135	139	149	154	84
155°	109	112	112	112	113	49
165°	83	84	85	85	85	24
175°	75	76	76	77	77	7
180°	75	75	75	75	75	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4917.3	4917.3	4917.3	4917.3	4917.3
2.5°	4902.8	4914.9	4907.7	4923.3	4922.1
5°	4886.0	4899.3	4893.2	4912.5	4906.5
7.5°	4857.2	4871.6	4870.3	4892.0	4889.7
10°	4815.0	4830.7	4835.5	4864.3	4864.3
12.5°	4757.2	4777.7	4789.8	4824.7	4825.8
15°	4688.7	4711.5	4733.2	4772.9	4777.7
17.5°	4605.6	4634.5	4664.6	4710.3	4716.3
20°	4511.8	4544.3	4585.2	4633.3	4640.5
22.5°	4403.4	4441.9	4494.9	4551.4	4559.9
25°	4281.9	4328.8	4390.2	4458.8	4469.6
27.5°	4143.5	4197.7	4280.7	4357.7	4367.3
30°	3993.1	4056.8	4160.3	4251.8	4267.4
32.5°	3834.2	3907.6	4035.2	4137.5	4159.2
35°	3660.9	3746.3	3900.4	4018.3	4042.4
37.5°	3490.0	3583.9	3758.4	3893.2	3922.1
40°	3290.3	3407.0	3606.8	3756.0	3790.9
42.5°	3102.5	3228.8	3455.1	3617.6	3651.2
45°	2889.5	3035.1	3289.0	3468.3	3505.7
47.5°	2689.8	2847.3	3129.0	3314.3	3352.8
50°	2479.1	2652.4	2958.1	3151.8	3191.6
52.5°	2268.5	2455.1	2781.2	2982.2	3019.5
55°	2047.1	2258.9	2601.8	2798.0	2831.8
57.5°	1841.2	2065.1	2417.8	2604.2	2624.8
60°	1637.9	1870.2	2230.0	2393.7	2400.9
62.5°	1439.3	1683.7	2037.4	2167.4	2157.8
65°	1249.2	1504.3	1841.2	1932.8	1911.1
67.5°	1066.2	1329.8	1640.3	1699.2	1670.4
70°	893.0	1160.2	1445.3	1475.4	1448.9
72.5°	740.1	998.8	1248.0	1273.3	1254.0
75°	588.5	844.8	1066.2	1093.9	1083.1
77.5°	446.5	695.6	899.0	935.1	937.5
80°	321.3	559.6	753.3	809.9	817.2
82.5°	211.8	434.4	631.8	704.0	714.8
85°	122.8	323.8	534.3	607.8	618.6
87.5°	52.9	233.5	429.7	495.8	509.1
90°	4.2	154.7	344.8	436.8	458.2
92.5°	17.8	142.2	322.3	419.6	443.7
95°	50.2	177.9	372.0	481.2	517.1
97.5°	231.4	314.7	459.4	569.8	608.1
100°	467.3	550.9	566.2	639.3	656.4
102.5°	718.1	762.0	665.4	656.7	658.4
105°	844.2	876.0	835.8	674.2	640.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	683.0	715.8	761.5	773.6	751.8
115°	586.3	610.2	664.3	690.3	690.2
117.5°	504.2	518.2	569.7	595.3	599.8
120°	419.2	438.0	488.8	508.7	508.5
122.5°	353.3	369.3	414.1	435.2	433.8
125°	291.3	309.9	351.8	372.7	373.8
127.5°	246.8	260.0	299.6	322.1	324.9
130°	215.9	223.8	258.6	279.9	284.3
132.5°	192.6	200.8	225.9	248.5	252.5
135°	175.1	180.8	201.1	220.8	227.3
137.5°	160.9	165.8	180.5	199.8	204.6
140°	149.7	154.2	164.3	180.4	186.1
142.5°	140.0	143.3	149.1	164.0	167.6
145°	132.8	135.0	138.7	149.2	153.6
147.5°	125.3	128.7	130.3	136.8	140.5
150°	119.5	122.4	123.7	125.8	130.2
152.5°	113.7	116.6	117.8	117.5	119.9
155°	108.7	111.6	112.0	111.7	112.8
157.5°	92.5	94.2	95.8	96.7	96.7
160°	89.2	90.0	91.7	92.5	92.5
162.5°	85.8	86.7	87.5	88.3	88.3
165°	83.3	84.2	85.0	85.0	85.0
167.5°	80.8	80.8	81.7	82.5	82.5
170°	78.3	79.2	79.2	80.0	80.0
172.5°	76.7	77.5	77.5	77.5	78.3
175°	75.0	75.8	75.8	76.7	76.7
177.5°	75.0	75.0	75.0	75.0	75.0
180°	75.0	75.0	75.0	75.0	75.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







107.5°	847.6	885.8	894.2	761.6	665.9
110°	782.6	820.2	847.7	817.2	741.6



(END OF REPORT)