

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: P828332

Luminaire Tested: **OHBL-24HE-MCL-UNV-L940-CD-UPL36**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P828332
REPORT IS A COMBINATION OF REPORTS P826300 AND G3-2310-221-2
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-24HE-MCL-UNV-L940-CD-UPL36
Description:
Light Source: -
Ballast/Driver: -

Summary

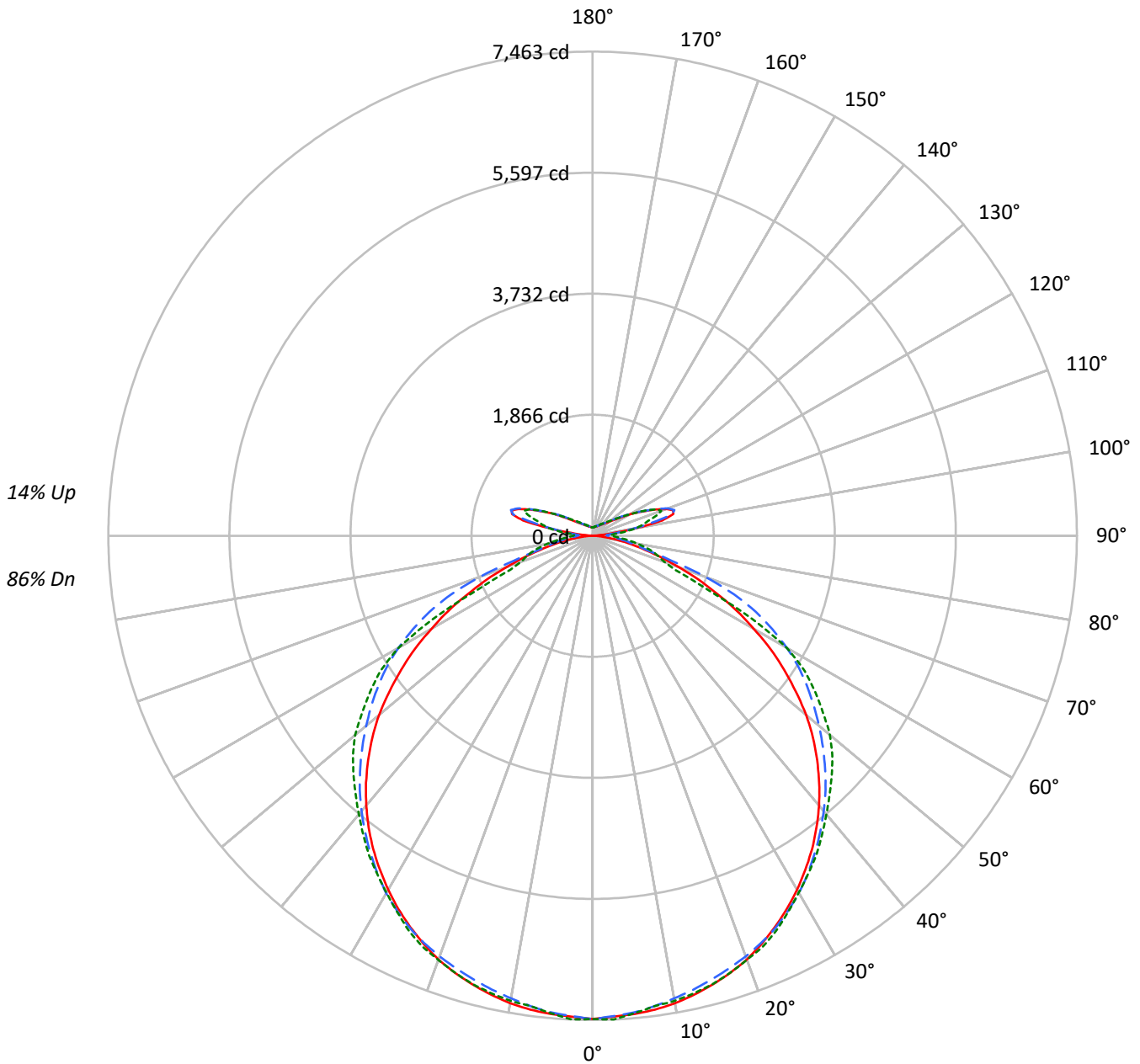
Lumens per Lamp: N/A
Luminaire Lumens: 24166.3 lumens
Efficiency: N/A
Efficacy: 149.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 161.8
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

TEST NUMBER: P828332

CATALOG NUMBER: OHBL-24HE-MCL-UNV-L940-CD-UPL36

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	96	96	96	89	89	89	86																			
1	106	101	97	94	102	98	94	91	91	88	85	85	83	80	79	77	76	73																			
2	97	89	82	77	93	86	80	75	80	75	71	75	71	67	70	67	64	61																			
3	88	78	70	64	84	75	68	62	70	65	60	66	61	57	62	58	54	52																			
4	81	69	61	54	77	67	59	53	63	56	51	59	53	49	55	50	47	44																			
5	74	62	53	47	71	60	52	46	56	49	44	53	47	42	50	45	41	38																			
6	68	55	47	41	66	54	46	40	51	44	38	48	42	37	45	40	36	33																			
7	63	50	42	36	61	49	41	35	46	39	34	43	37	33	41	36	32	29																			
8	59	46	37	32	57	44	37	31	42	35	30	40	34	29	37	32	28	26																			
9	55	42	34	28	53	41	33	28	39	32	27	37	31	26	35	29	25	24																			
10	51	39	31	26	49	38	30	25	36	29	25	34	28	24	32	27	23	21																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11779	11779	11779
5°	11653	11608	11682
10°	11561	11432	11601
15°	11438	11301	11573
20°	11315	11218	11522
25°	11126	11134	11474
30°	10923	11003	11313
35°	10688	10794	11254
40°	10398	10579	11157
45°	10015	10329	11161
50°	9517	10046	11162
55°	8767	9766	10850
60°	7811	9358	10152
65°	6597	8599	6535
70°	5200	6713	4841
75°	3775	3985	5074
80°	2489	3313	5116
85°	1262	3035	5380



TEST NUMBER: P828332

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	702.3	2.9
10°-20°	2013.8	8.3
20°-30°	3075.8	12.7
30°-40°	3732.0	15.4
40°-50°	3911.5	16.2
50°-60°	3544.4	14.7
60°-70°	2376.4	9.8
70°-80°	1067.1	4.4
80°-90°	393.9	1.6
90°-100°	355.7	1.5
100°-110°	1138.4	4.7
110°-120°	924.2	3.8
120°-130°	439.6	1.8
130°-140°	225.3	0.9
140°-150°	132.6	0.5
150°-160°	78.9	0.3
160°-170°	41.7	0.2
170°-180°	12.7	0.1
0°-30°	5791.9	24.0
0°-40°	9523.9	39.4
0°-60°	16979.7	70.3
0°-90°	20817.1	86.1
90°-120°	2418.4	10.0
90°-150°	3215.9	13.3
90°-180°	3349.0	13.9
0°-180°	24166.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7448	7448	7448	7448	7448	
5°	7400	7426	7374	7396	7387	704
15°	7160	7132	7081	7143	7152	2021
25°	6651	6622	6668	6730	6710	3066
35°	5895	5909	5970	6033	6009	3685
45°	4892	4972	5065	5194	5210	3769
55°	3600	3774	4031	4192	4183	3214
65°	2113	2444	2774	2341	1912	2105
75°	831	1206	887	908	967	909
85°	143	275	352	425	446	175
90°	8	134	237	291	303	13
95°	55	165	268	334	353	202
105°	1288	1306	1266	971	887	1226
115°	904	896	922	936	930	913
125°	448	465	486	482	474	422
135°	270	278	286	294	296	214
145°	199	205	209	213	215	127
155°	164	168	170	172	171	77
165°	143	145	146	147	148	41
175°	132	132	132	130	131	13
180°	129	129	129	129	129	



TEST NUMBER: P828332

CATALOG NUMBER: OHBL-24HE-MCL-UNV-L940-CD-UPL36

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7448.2	7448.2	7448.2	7448.2	7448.2
2.5°	7418.0	7449.2	7410.4	7452.4	7463.2
5°	7399.7	7425.6	7373.8	7396.5	7386.8
7.5°	7366.3	7375.0	7313.5	7331.9	7312.5
10°	7316.8	7312.5	7240.3	7275.9	7280.1
12.5°	7243.5	7230.6	7166.0	7219.9	7220.9
15°	7159.5	7131.5	7080.9	7143.4	7152.0
17.5°	7062.6	7026.0	6992.6	7073.4	7060.5
20°	6949.6	6906.4	6900.0	6988.3	6956.0
22.5°	6809.6	6776.2	6791.2	6875.2	6854.8
25°	6651.2	6622.1	6668.5	6729.8	6710.5
27.5°	6484.3	6467.1	6519.9	6567.3	6529.5
30°	6301.2	6291.6	6361.6	6400.3	6352.9
32.5°	6102.0	6105.2	6172.0	6224.8	6180.6
35°	5895.2	5909.2	5969.5	6033.1	6009.3
37.5°	5668.0	5699.2	5759.5	5831.6	5806.9
40°	5427.9	5473.1	5539.8	5627.0	5604.4
42.5°	5168.2	5225.4	5311.5	5408.5	5406.3
45°	4892.5	4972.3	5064.9	5194.1	5210.2
47.5°	4606.1	4695.5	4812.9	4985.2	5010.0
50°	4294.9	4406.9	4553.4	4760.1	4775.2
52.5°	3948.1	4101.0	4294.9	4493.0	4474.7
55°	3600.2	3773.6	4031.0	4192.5	4182.9
57.5°	3253.5	3448.4	3760.7	3875.9	3874.9
60°	2865.8	3112.4	3453.8	3541.0	3454.8
62.5°	2507.1	2772.0	3126.3	3062.9	2767.8
65°	2113.0	2443.6	2774.2	2341.2	1911.6
67.5°	1763.0	2107.6	2356.4	1603.6	1373.1
70°	1410.8	1791.0	1837.3	1190.0	1173.8
72.5°	1098.5	1503.4	1267.6	1018.8	1070.5
75°	831.4	1206.2	887.4	907.9	967.1
77.5°	606.4	926.1	690.3	795.9	844.3
80°	416.8	655.8	563.2	668.8	702.2
82.5°	261.7	432.9	451.2	538.4	573.0
85°	143.2	274.7	352.1	425.4	445.9
87.5°	59.2	165.9	269.3	328.5	345.7
90°	8.0	134.2	236.7	290.9	302.6
92.5°	22.8	122.2	215.5	267.6	280.4
95°	54.9	164.8	268.4	334.5	352.6
97.5°	327.3	394.7	407.9	488.5	513.8
100°	701.4	754.2	642.8	665.5	686.1
102.5°	1098.1	1138.7	949.6	813.5	790.6
105°	1288.5	1306.3	1266.4	970.7	887.0



TEST NUMBER: P828332

CATALOG NUMBER: OHBL-24HE-MCL-UNV-L940-CD-UPL36

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1059.6	1069.7	1081.7	1087.9	1062.2
115°	904.1	896.3	921.5	936.2	929.7
117.5°	774.6	768.1	791.2	794.2	786.8
120°	652.9	653.9	676.7	669.8	664.0
122.5°	542.4	554.6	572.5	569.2	559.1
125°	448.4	465.1	486.3	481.7	474.1
127.5°	386.8	392.0	412.8	411.7	412.8
130°	333.8	341.8	356.7	362.8	361.1
132.5°	298.3	306.4	318.3	325.3	327.9
135°	270.5	277.7	285.7	293.7	295.7
137.5°	249.0	254.2	259.4	269.2	271.1
140°	229.9	235.1	239.2	247.0	248.1
142.5°	213.1	219.4	222.7	228.6	229.6
145°	199.2	204.7	209.0	212.7	214.7
147.5°	189.9	193.4	197.7	198.6	200.5
150°	180.3	182.9	186.4	188.1	189.0
152.5°	171.6	174.2	177.7	178.6	179.5
155°	163.8	167.5	170.1	171.8	170.8
157.5°	156.8	160.5	163.1	164.0	164.0
160°	151.6	154.4	157.0	157.0	157.9
162.5°	147.5	149.2	150.9	151.8	152.7
165°	143.1	144.8	145.7	146.6	147.5
167.5°	139.6	141.6	141.4	142.2	142.2
170°	136.2	137.0	137.9	136.9	137.7
172.5°	133.5	134.4	135.3	134.2	134.2
175°	131.8	131.8	131.6	130.5	131.4
177.5°	131.2	130.9	129.9	128.8	128.6
180°	129.0	129.0	129.0	129.0	129.0



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	1301.7	1319.4	1320.4	1179.9	<i>1030.8</i>
110°	1202.8	1224.9	1231.8	1191.9	<i>1125.4</i>



(END OF REPORT)