

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: P828338

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P828338
REPORT IS A COMBINATION OF REPORTS P826302 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-N-UNV-L940-CD-UPL36
Description:
Light Source: -
Ballast/Driver: -

Summary

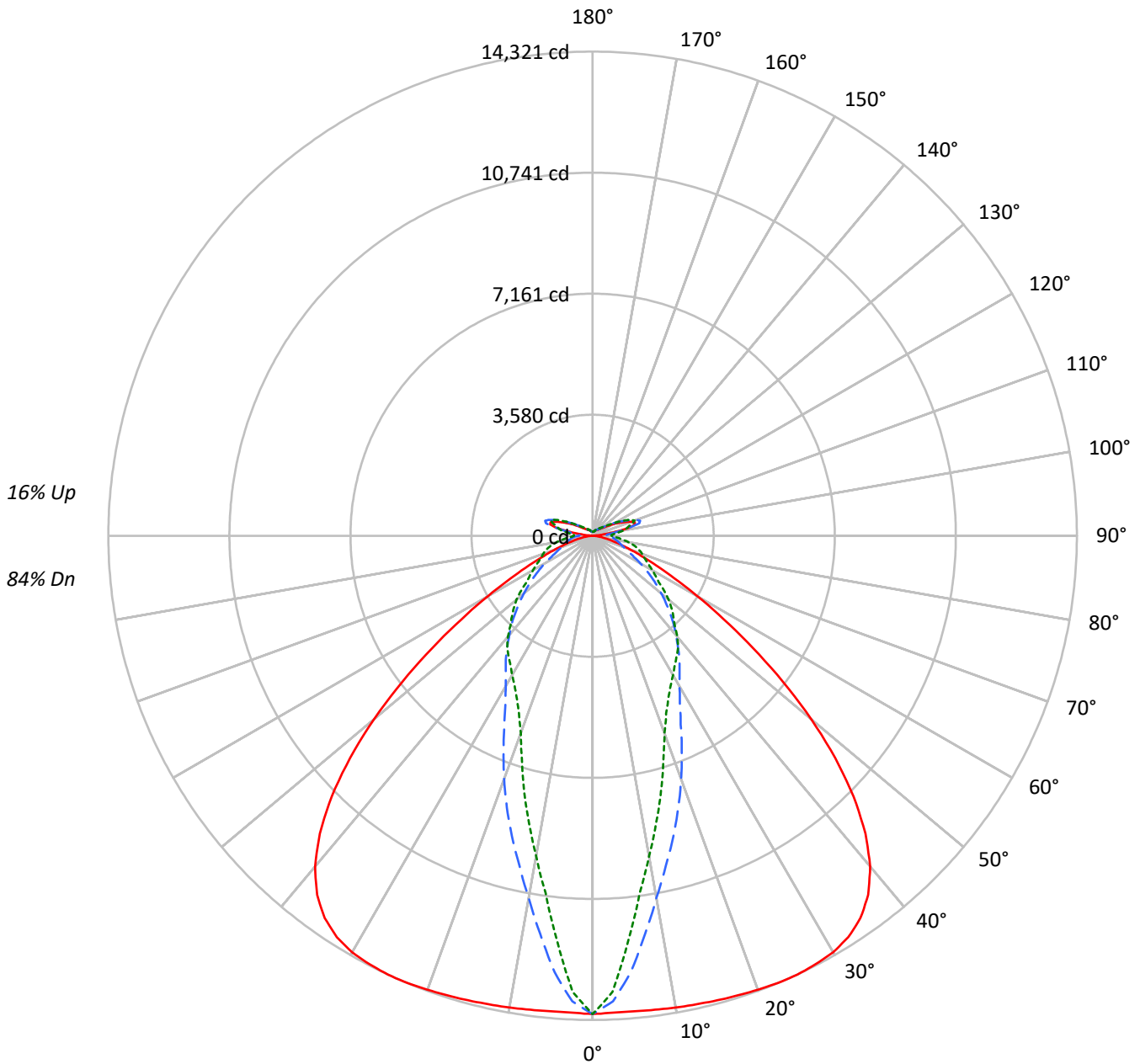
Lumens per Lamp: N/A
Luminaire Lumens: 23994.1 lumens
Efficiency: N/A
Efficacy: 148.3 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 161.8
Input Voltage (V): NR
Input Current (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	115	115	115	115	111	111	111	111	102	102	102	95	95	95	87	87	87	84																			
1	106	101	98	94	102	98	94	91	91	88	85	84	82	80	78	76	75	72																			
2	97	90	84	79	93	87	81	76	81	76	72	75	72	68	70	67	65	62																			
3	90	80	73	67	86	77	71	65	72	67	62	68	63	59	63	59	56	54																			
4	83	72	64	58	79	70	62	57	65	59	54	61	56	52	57	53	50	47																			
5	77	65	57	51	74	63	56	50	59	53	48	56	50	46	52	48	44	42																			
6	71	59	51	45	68	57	50	44	54	48	43	51	46	41	48	43	40	38																			
7	66	54	46	41	64	53	45	40	50	43	39	47	41	37	44	40	36	34																			
8	62	50	42	37	60	48	41	36	46	40	35	44	38	34	41	36	33	31																			
9	58	46	39	33	56	45	38	33	43	36	32	40	35	31	38	34	30	28																			
10	55	43	35	31	53	42	35	30	40	34	29	38	32	29	36	31	28	26																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	22373	22373	22373
5°	22234	20384	19036
10°	22390	17178	15338
15°	22729	14698	12652
20°	23263	12434	10286
25°	23955	10297	9061
30°	24659	8875	8466
35°	25034	8093	8117
40°	24457	7315	7755
45°	22344	6615	7236
50°	18700	5849	6855
55°	14072	5128	6168
60°	9744	4403	5986
65°	6453	3798	5966
70°	4313	3571	6414
75°	2898	3694	7107
80°	1889	4111	7780
85°	985	5188	9276



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1190.9	5.0
10°-20°	2801.5	11.7
20°-30°	3511.6	14.6
30°-40°	3726.3	15.5
40°-50°	3369.1	14.0
50°-60°	2442.8	10.2
60°-70°	1533.0	6.4
70°-80°	1014.5	4.2
80°-90°	591.1	2.5
90°-100°	522.3	2.2
100°-110°	1278.8	5.3
110°-120°	1017.3	4.2
120°-130°	482.8	2.0
130°-140°	241.7	1.0
140°-150°	140.3	0.6
150°-160°	80.1	0.3
160°-170°	38.3	0.2
170°-180°	11.7	0.0
0°-30°	7504.0	31.3
0°-40°	11230.3	46.8
0°-60°	17042.2	71.0
0°-90°	20180.9	84.1
90°-120°	2818.4	11.7
90°-150°	3683.2	15.4
90°-180°	3813.0	15.9
0°-180°	23994.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14147	14147	14147	14147	14147	
5°	14119	13757	12949	12348	12037	###
15°	14226	11596	9210	8190	7819	4035
25°	14321	8966	6167	5473	5300	6616
35°	13808	5961	4476	4336	4334	8584
45°	10916	3776	3244	3322	3378	8315
55°	5779	2340	2117	2296	2378	5221
65°	2067	1357	1225	1570	1745	2151
75°	638	731	823	1278	1354	711
85°	112	303	602	837	769	134
90°	7	169	404	554	559	12
95°	59	197	450	600	633	205
105°	1295	1341	1429	1193	1114	1231
115°	910	925	1041	1085	1080	920
125°	457	478	544	556	546	429
135°	274	283	308	329	330	217
145°	206	211	218	232	231	131
155°	169	176	180	183	180	77
165°	131	133	134	135	136	38
175°	120	120	121	121	122	12
180°	118	118	118	118	118	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	14147.1	14147.1	14147.1	14147.1	14147.1
2.5°	14117.5	14036.7	13785.0	13631.4	13502.2
5°	14118.8	13756.6	12948.8	12348.3	12037.2
7.5°	14139.1	13333.9	11878.4	11001.8	10659.8
10°	14170.0	12810.1	10879.3	9944.9	9625.7
12.5°	14192.9	12220.4	10000.1	9040.0	8690.0
15°	14226.5	11595.6	9209.7	8190.4	7818.8
17.5°	14257.5	11007.2	8428.7	7363.8	6950.3
20°	14288.4	10373.0	7647.8	6550.5	6209.8
22.5°	14318.1	9703.9	6885.7	5919.0	5686.1
25°	14320.8	8966.0	6166.7	5473.3	5299.6
27.5°	14285.8	8201.2	5583.7	5100.3	4992.6
30°	14225.2	7459.3	5131.3	4831.1	4754.3
32.5°	14074.4	6702.6	4781.2	4571.2	4526.8
35°	13807.8	5960.7	4475.6	4335.6	4334.2
37.5°	13387.7	5302.3	4144.4	4120.1	4149.8
40°	12767.0	4726.0	3830.6	3895.3	3895.3
42.5°	11939.0	4225.2	3546.6	3612.5	3595.0
45°	10915.6	3775.5	3243.5	3321.7	3378.2
47.5°	9729.4	3379.6	2933.9	3084.7	3162.8
50°	8439.5	3002.5	2651.2	2843.7	2932.5
52.5°	7087.7	2653.8	2375.1	2596.0	2667.3
55°	5778.9	2340.1	2116.6	2295.7	2377.8
57.5°	4594.1	2041.2	1863.5	2033.1	2202.8
60°	3574.8	1784.0	1625.2	1867.5	2037.2
62.5°	2730.6	1555.2	1401.6	1712.7	1882.3
65°	2066.8	1357.2	1225.3	1570.0	1745.0
67.5°	1557.9	1186.2	1087.9	1466.3	1637.3
70°	1170.1	1020.6	977.5	1401.6	1555.2
72.5°	864.4	868.5	890.0	1345.1	1462.2
75°	638.3	731.1	822.7	1277.7	1354.5
77.5°	456.5	605.9	762.1	1197.0	1223.9
80°	316.4	494.1	698.8	1090.6	1067.8
82.5°	197.9	395.9	642.3	973.5	910.2
85°	111.7	302.9	601.8	837.4	768.8
87.5°	49.8	226.2	526.4	653.0	609.9
90°	7.0	169.2	403.5	554.0	559.0
92.5°	24.4	157.2	388.7	533.1	551.8
95°	59.3	196.7	450.5	600.0	632.8
97.5°	331.9	427.6	591.6	750.3	787.4
100°	706.2	786.4	820.8	916.7	947.6
102.5°	1103.2	1173.1	1120.1	1049.6	1034.3
105°	1295.0	1340.8	1428.6	1192.6	1113.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1065.5	1100.5	1213.4	1254.3	1233.2
115°	910.3	925.1	1041.1	1084.9	1080.3
117.5°	782.2	793.6	896.2	926.4	918.1
120°	660.4	676.6	766.1	782.2	775.2
122.5°	550.0	573.0	646.3	660.5	647.9
125°	457.0	478.0	543.7	556.0	546.0
127.5°	393.0	400.9	457.5	472.0	470.7
130°	340.0	349.6	391.5	412.1	410.4
132.5°	302.1	311.8	344.7	366.1	368.7
135°	274.3	283.1	307.5	329.0	329.9
137.5°	251.7	260.9	276.9	298.8	299.7
140°	232.6	240.5	253.8	273.4	273.4
142.5°	218.2	224.8	234.6	250.7	250.7
145°	205.7	211.4	218.4	231.8	231.4
147.5°	195.3	201.5	207.1	214.8	214.2
150°	185.7	192.3	195.8	201.6	201.1
152.5°	177.0	183.6	187.1	190.7	190.2
155°	169.2	175.8	179.8	182.8	180.1
157.5°	146.1	148.7	151.3	152.2	152.2
160°	140.8	142.6	145.2	145.2	146.1
162.5°	135.6	137.4	139.1	140.0	140.8
165°	131.3	133.0	133.9	134.8	135.6
167.5°	127.8	128.7	129.5	130.4	130.4
170°	124.3	125.2	126.1	126.1	126.9
172.5°	121.7	122.6	123.5	123.5	123.5
175°	120.0	120.0	120.9	120.9	121.7
177.5°	118.2	119.1	119.1	119.1	120.0
180°	118.2	118.2	118.2	118.2	118.2



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	1307.1	1354.2	1472.3	1381.6	1239.7
110°	1208.4	1257.5	1374.9	1375.1	1315.8



(END OF REPORT)