

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: P827155

Luminaire Tested: **OHBL-24SE-N-UNV-L840-CD-UPL24**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P827155
REPORT IS A COMBINATION OF REPORTS P826248 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-24SE-N-UNV-L840-CD-UPL24
Description: 24000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND NARROW LENS AND 2400 LUMEN UPLIGHT MODULE
Light Source: -
Ballast/Driver: -

Summary

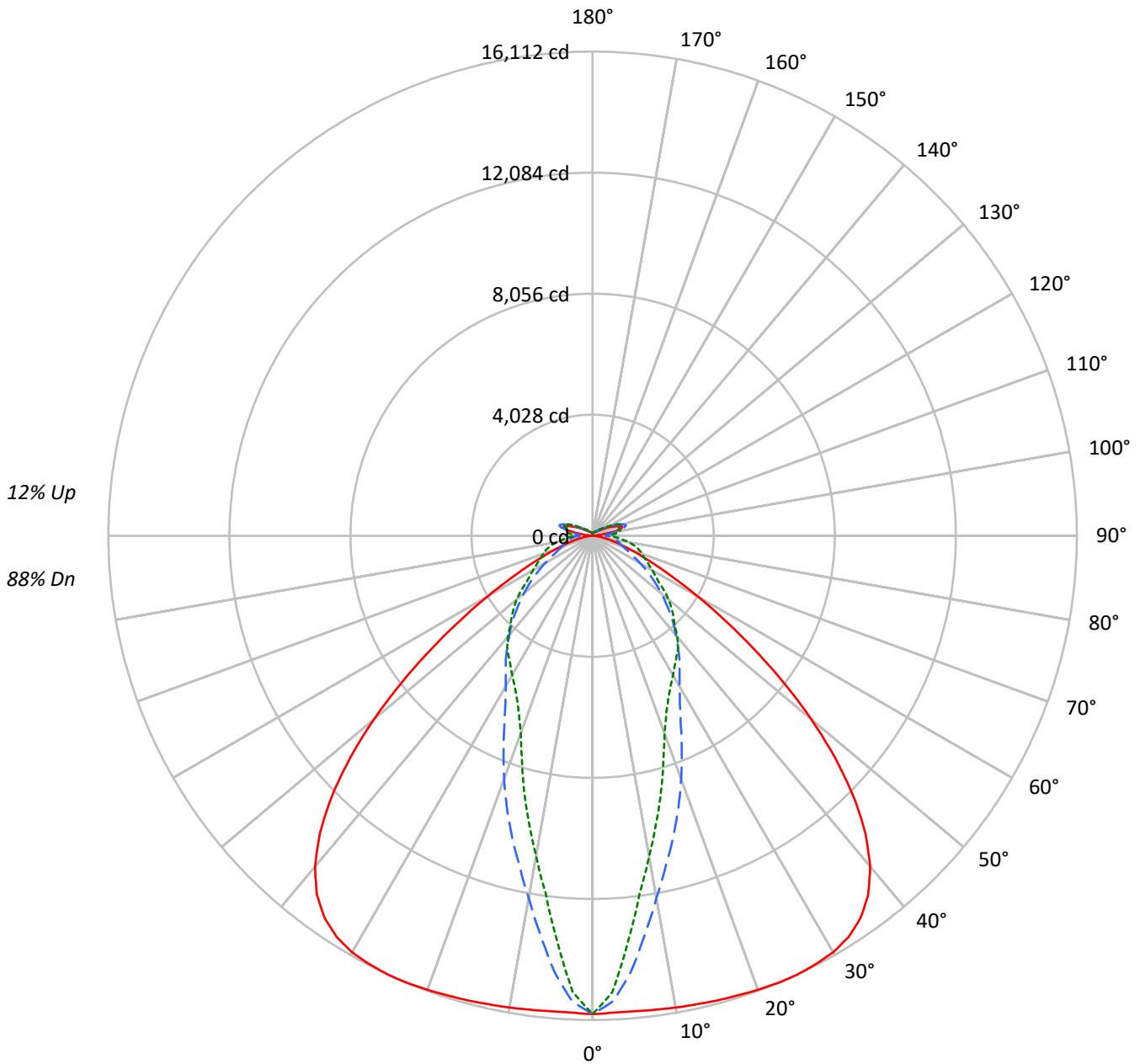
Lumens per Lamp: N/A
Luminaire Lumens: 25912.3 lumens
Efficiency: N/A
Efficacy: 166.7 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 155.4
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	112	112	112	112	104	104	104	97	97	97	91	91	91	88																			
1	107	102	98	95	103	99	95	92	92	90	87	86	84	82	81	79	78	75																			
2	98	91	84	79	94	88	82	77	82	78	74	77	74	70	73	70	67	64																			
3	90	81	74	68	87	78	72	66	74	68	64	69	65	61	65	62	58	56																			
4	83	73	65	59	80	71	63	58	67	60	56	63	58	54	59	55	52	49																			
5	77	66	58	52	75	64	56	51	61	54	49	57	52	48	54	50	46	44																			
6	72	60	52	46	69	58	51	45	55	49	44	53	47	43	50	45	41	39																			
7	67	55	47	41	65	53	46	41	51	44	40	48	43	38	46	41	37	35																			
8	63	50	43	37	61	49	42	37	47	41	36	45	39	35	43	38	34	32																			
9	59	47	39	34	57	46	38	34	44	37	33	42	36	32	40	35	31	29																			
10	56	43	36	31	54	42	35	31	41	34	30	39	33	29	37	32	29	27																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	27186	27186	27186
5°	26999	24758	23131
10°	27171	20854	18638
15°	27565	17835	15374
20°	28194	15080	12499
25°	29012	12483	11011
30°	29842	10754	10288
35°	30272	9800	9863
40°	29547	8853	9423
45°	26968	8000	8793
50°	22544	7068	8330
55°	16942	6190	7495
60°	11711	5309	7274
65°	7738	4572	7249
70°	5157	4291	7794
75°	3451	4425	8636
80°	2234	4901	9453
85°	1149	6131	11272



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1339.9	5.2
10°-20°	3152.0	12.2
20°-30°	3951.0	15.2
30°-40°	4192.5	16.2
40°-50°	3790.6	14.6
50°-60°	2748.5	10.6
60°-70°	1724.8	6.7
70°-80°	1141.4	4.4
80°-90°	663.8	2.6
90°-100°	550.4	2.1
100°-110°	1024.8	4.0
110°-120°	826.2	3.2
120°-130°	397.0	1.5
130°-140°	196.0	0.8
140°-150°	112.6	0.4
150°-160°	63.2	0.2
160°-170°	29.0	0.1
170°-180°	8.8	0.0
0°-30°	8442.9	32.6
0°-40°	12635.3	48.8
0°-60°	19174.4	74.0
0°-90°	22704.4	87.6
90°-120°	2401.4	9.3
90°-150°	3106.9	12.0
90°-180°	3208.0	12.4
0°-180°	25912.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15917	15917	15917	15917	15917	
5°	15885	15478	14569	13893	13543	###
15°	16006	13046	10362	9215	8797	4539
25°	16112	10088	6938	6158	5963	7444
35°	15535	6706	5036	4878	4876	9658
45°	12281	4248	3649	3737	3801	9356
55°	6502	2633	2381	2583	2675	5875
65°	2325	1527	1379	1766	1963	2420
75°	718	823	926	1438	1524	800
85°	126	341	677	942	865	151
90°	5	176	439	615	626	12
95°	59	211	517	698	749	170
105°	1015	1059	1096	934	894	964
115°	709	746	869	909	908	714
125°	356	380	449	471	467	333
135°	215	222	249	272	274	170
145°	163	169	175	188	187	103
155°	134	141	144	147	144	60
165°	100	101	102	102	102	29
175°	90	91	91	92	92	9
180°	90	90	90	90	90	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	15917.1	15917.1	15917.1	15917.1	15917.1
2.5°	15883.8	15792.9	15509.6	15336.9	15191.4
5°	15885.3	15477.8	14568.8	13893.2	13543.2
7.5°	15908.0	15002.1	13364.5	12378.3	11993.5
10°	15942.8	14412.8	12240.4	11189.1	10830.0
12.5°	15968.6	13749.3	11251.2	10171.1	9777.2
15°	16006.5	13046.3	10361.9	9215.2	8797.0
17.5°	16041.3	12384.3	9483.3	8285.0	7819.9
20°	16076.1	11670.8	8604.6	7370.0	6986.7
22.5°	16109.5	10917.9	7747.2	6659.5	6397.4
25°	16112.5	10087.7	6938.3	6158.1	5962.7
27.5°	16073.1	9227.3	6282.3	5738.5	5617.3
30°	16004.9	8392.6	5773.3	5435.5	5349.1
32.5°	15835.3	7541.2	5379.4	5143.1	5093.1
35°	15535.3	6706.5	5035.5	4878.0	4876.5
37.5°	15062.7	5965.7	4662.9	4635.6	4668.9
40°	14364.3	5317.3	4309.9	4382.6	4382.6
42.5°	13432.6	4753.8	3990.3	4064.5	4044.8
45°	12281.3	4247.8	3649.4	3737.3	3800.9
47.5°	10946.7	3802.4	3301.0	3470.6	3558.5
50°	9495.4	3378.2	2982.8	3199.5	3299.5
52.5°	7974.4	2985.9	2672.3	2920.7	3001.0
55°	6502.0	2632.9	2381.4	2582.9	2675.3
57.5°	5168.8	2296.6	2096.6	2287.5	2478.4
60°	4022.1	2007.2	1828.5	2101.2	2292.0
62.5°	3072.2	1749.7	1577.0	1927.0	2117.8
65°	2325.4	1527.0	1378.6	1766.4	1963.3
67.5°	1752.7	1334.6	1224.0	1649.7	1842.1
70°	1316.5	1148.3	1099.8	1577.0	1749.7
72.5°	972.6	977.1	1001.4	1513.4	1645.2
75°	718.1	822.6	925.6	1437.6	1524.0
77.5°	513.6	681.7	857.4	1346.7	1377.0
80°	356.0	556.0	786.2	1227.1	1201.3
82.5°	222.7	445.4	722.6	1095.3	1024.1
85°	125.7	340.9	677.2	942.3	865.0
87.5°	56.1	254.5	592.3	734.7	686.3
90°	5.0	176.4	439.4	614.9	626.5
92.5°	20.0	163.2	434.1	608.0	636.1
95°	59.1	211.0	517.4	697.6	748.8
97.5°	276.6	378.9	637.2	815.3	866.5
100°	561.1	664.8	771.4	901.4	925.6
102.5°	863.6	920.7	892.2	919.1	923.2
105°	1015.1	1058.7	1095.5	934.3	894.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	823.1	871.5	993.4	1020.4	995.9
115°	708.7	746.0	868.7	909.1	907.6
117.5°	610.2	633.9	745.5	782.3	784.8
120°	508.2	537.4	637.3	664.1	658.1
122.5°	429.2	453.3	535.0	558.8	551.3
125°	356.2	380.2	449.3	471.1	466.6
127.5°	302.7	318.7	378.7	400.9	398.4
130°	265.7	276.7	323.1	345.3	346.3
132.5°	236.1	246.2	280.4	305.7	304.7
135°	215.1	222.2	248.9	272.1	274.1
137.5°	198.1	205.7	223.8	246.5	246.5
140°	183.1	190.2	204.3	224.4	225.4
142.5°	171.7	177.2	187.2	204.4	204.4
145°	163.2	168.7	174.7	187.8	187.3
147.5°	154.2	161.2	164.7	174.3	172.8
150°	147.2	153.7	156.7	162.3	161.8
152.5°	140.2	146.7	149.7	153.8	152.2
155°	134.2	140.7	144.2	146.8	143.7
157.5°	111.0	113.0	115.0	116.0	116.0
160°	107.0	108.0	110.0	111.0	111.0
162.5°	103.0	104.0	105.0	106.0	106.0
165°	100.0	101.0	102.0	102.0	102.0
167.5°	97.0	97.0	98.0	99.0	99.0
170°	94.0	95.0	95.0	96.0	96.0
172.5°	92.0	93.0	93.0	93.0	94.0
175°	90.0	91.0	91.0	92.0	92.0
177.5°	90.0	90.0	90.0	90.0	90.0
180°	90.0	90.0	90.0	90.0	90.0



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	1019.1	1073.1	1163.3	1027.4	916.0
110°	942.6	994.1	1103.6	1082.6	995.2



(END OF REPORT)