

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: P827055

Luminaire Tested: **OHBL-12SE-A-UNV-L840-CD-UPL12**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P827055
REPORT IS A COMBINATION OF REPORTS P826053 AND G3-2310-221-12
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-12SE-A-UNV-L840-CD-UPL12
Description: 12000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND AISLE LENS AND 1200 LUMEN UPLIGHT MODULE
Light Source: -
Ballast/Driver: -

Summary

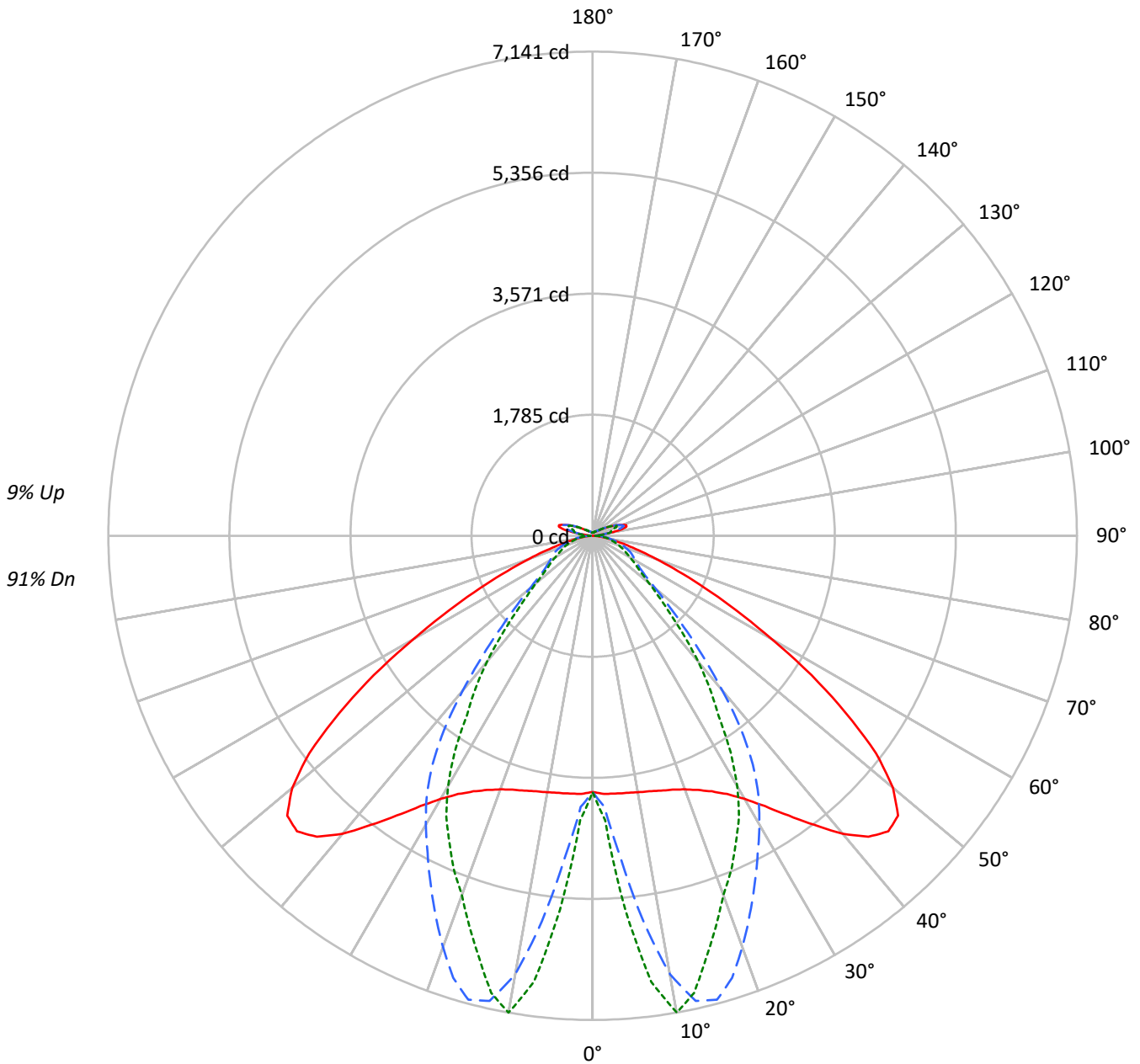
Lumens per Lamp: N/A
Luminaire Lumens: 13372.3 lumens
Efficiency: N/A
Efficacy: 170.6 lumens/watt
Spacing Criteria (0/90/45): 2.18 / 1.37 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 0.88' x H: 0.17')
CIE Type: Direct

Input Watts (W): 78.4
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	117	117	117	117	113	113	113	113	106	106	106	99	99	99	94	94	94	91																			
1	108	104	101	98	105	101	98	95	95	93	90	90	88	86	85	83	82	79																			
2	100	93	87	83	97	91	85	81	86	81	78	81	78	75	77	74	72	69																			
3	93	84	77	71	89	81	75	70	77	72	68	73	69	65	70	66	63	61																			
4	86	75	68	62	83	73	66	61	70	64	59	67	62	58	64	59	56	54																			
5	80	68	60	55	77	67	59	54	64	57	53	61	55	51	58	54	50	48																			
6	74	62	54	49	72	61	53	48	58	52	47	56	50	46	53	49	45	43																			
7	69	57	49	44	67	56	48	43	53	47	42	51	46	41	49	44	40	39																			
8	65	52	45	39	63	51	44	39	49	43	38	47	42	37	46	41	37	35																			
9	60	48	41	36	59	47	40	35	46	39	35	44	38	34	42	37	34	32																			
10	57	45	38	33	55	44	37	32	42	36	32	41	35	31	39	34	31	29																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12295	12295	12295
5°	12261	15378	18023
10°	12275	21085	23410
15°	12470	22842	21486
20°	12883	21075	19202
25°	13709	18843	17564
30°	15154	16861	15618
35°	17650	14660	12446
40°	21008	11083	9905
45°	23825	7489	7050
50°	23844	5090	5214
55°	20329	3962	4260
60°	14911	3658	3833
65°	9989	3609	3630
70°	6198	3406	3516
75°	3575	3056	3363
80°	1975	2561	3471
85°	850	2022	3217



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	493.4	3.7
10°-20°	1741.3	13.0
20°-30°	2565.9	19.2
30°-40°	2696.4	20.2
40°-50°	2063.2	15.4
50°-60°	1245.9	9.3
60°-70°	760.3	5.7
70°-80°	415.0	3.1
80°-90°	148.8	1.1
90°-100°	119.0	0.9
100°-110°	413.9	3.1
110°-120°	355.5	2.7
120°-130°	170.4	1.3
130°-140°	85.2	0.6
140°-150°	49.6	0.4
150°-160°	28.9	0.2
160°-170°	15.0	0.1
170°-180°	4.6	0.0
0°-30°	4800.6	35.9
0°-40°	7497.0	56.1
0°-60°	10806.1	80.8
0°-90°	12130.2	90.7
90°-120°	888.4	6.6
90°-150°	1193.7	8.9
90°-180°	1242.0	9.3
0°-180°	13372.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3779	3779	3779	3779	3779	
5°	3817	4095	4777	5334	5540	365
15°	3891	6061	7084	6610	6455	1106
25°	4158	7034	5655	5120	4994	1943
35°	5037	5633	4120	3431	3230	3195
45°	6165	3214	1898	1670	1600	4658
55°	4559	1090	864	801	798	4029
65°	1828	690	636	544	516	1873
75°	487	429	394	325	312	560
85°	72	133	157	143	130	89
90°	3	18	24	31	35	6
95°	25	58	86	116	134	82
105°	517	511	436	309	284	489
115°	360	360	361	358	352	360
125°	176	183	187	185	186	164
135°	102	105	109	110	110	81
145°	75	77	78	79	80	48
155°	60	61	62	63	63	28
165°	52	52	53	53	53	15
175°	47	47	47	47	47	5
180°	46	46	46	46	46	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3779.1	3779.1	3779.1	3779.1	3779.1
2.5°	3810.1	3848.9	4002.3	4161.4	4200.1
5°	3817.0	4095.1	4777.2	5334.2	5540.0
7.5°	3825.1	4493.9	5737.4	6419.3	6637.6
10°	3840.5	4998.2	6569.4	7058.9	7141.4
12.5°	3859.6	5532.5	7027.2	7009.3	6905.3
15°	3891.4	6061.0	7083.5	6610.0	6454.6
17.5°	3924.8	6508.1	6837.6	6175.4	6040.1
20°	3979.1	6840.0	6454.9	5789.1	5635.3
22.5°	4057.3	7022.5	6053.7	5439.7	5339.4
25°	4158.3	7034.3	5655.2	5119.9	4993.5
27.5°	4293.6	6871.1	5273.2	4806.7	4673.2
30°	4477.7	6558.7	4918.3	4428.9	4263.3
32.5°	4727.8	6109.0	4552.4	3972.9	3787.2
35°	5037.0	5633.2	4119.9	3431.0	3230.4
37.5°	5374.4	5104.9	3595.0	2951.2	2834.3
40°	5737.4	4560.5	2972.9	2502.1	2418.5
42.5°	6020.6	3968.7	2395.0	2079.3	1990.3
45°	6165.0	3214.3	1897.8	1670.0	1599.8
47.5°	6108.8	2495.1	1504.5	1326.9	1305.8
50°	5780.6	1842.4	1204.4	1093.1	1084.3
52.5°	5267.6	1373.2	994.9	926.0	910.9
55°	4559.2	1090.0	863.9	800.7	798.3
57.5°	3827.9	926.0	784.2	735.2	718.2
60°	3047.8	825.7	723.7	668.5	634.0
62.5°	2389.0	755.5	679.3	604.3	572.1
65°	1827.8	690.0	635.6	543.9	516.1
67.5°	1362.6	627.6	582.1	480.3	464.1
70°	992.7	563.6	521.2	427.2	414.4
72.5°	707.5	499.8	460.2	377.3	363.2
75°	486.6	429.1	393.6	324.8	311.6
77.5°	328.3	357.0	328.0	277.3	271.8
80°	219.3	283.1	265.3	235.0	231.6
82.5°	133.0	205.5	209.4	191.1	181.8
85°	72.4	133.0	156.9	142.9	129.6
87.5°	28.4	73.7	108.1	97.1	91.4
90°	3.0	18.0	24.0	31.0	35.0
92.5°	9.0	23.0	38.0	54.0	59.0
95°	25.0	58.0	86.0	116.0	134.0
97.5°	135.0	147.0	166.0	196.0	206.0
100°	276.0	297.0	247.0	258.0	263.0
102.5°	439.0	433.0	316.0	286.0	281.0
105°	517.0	511.0	436.0	309.0	284.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	418.0	421.0	418.0	402.0	385.0
115°	360.0	360.0	361.0	358.0	352.0
117.5°	302.0	306.0	309.0	306.0	304.0
120°	253.0	259.0	261.0	257.0	257.0
122.5°	213.0	218.0	221.0	218.0	219.0
125°	176.0	183.0	187.0	185.0	186.0
127.5°	147.0	153.0	160.0	159.0	159.0
130°	128.0	132.0	137.0	138.0	138.0
132.5°	114.0	117.0	121.0	122.0	123.0
135°	102.0	105.0	109.0	110.0	110.0
137.5°	94.0	96.0	99.0	100.0	101.0
140°	86.0	89.0	91.0	92.0	92.0
142.5°	80.0	82.0	84.0	85.0	86.0
145°	75.0	77.0	78.0	79.0	80.0
147.5°	70.0	72.0	74.0	74.0	75.0
150°	67.0	68.0	69.0	70.0	70.0
152.5°	63.0	64.0	65.0	66.0	66.0
155°	60.0	61.0	62.0	63.0	63.0
157.5°	57.0	59.0	59.0	60.0	60.0
160°	55.0	56.0	57.0	57.0	57.0
162.5°	53.0	54.0	54.0	55.0	55.0
165°	52.0	52.0	53.0	53.0	53.0
167.5°	50.0	50.0	51.0	51.0	51.0
170°	49.0	49.0	49.0	50.0	50.0
172.5°	48.0	48.0	48.0	48.0	48.0
175°	47.0	47.0	47.0	47.0	47.0
177.5°	46.0	47.0	47.0	47.0	47.0
180°	46.0	46.0	46.0	46.0	46.0



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	520.0	522.0	481.0	373.0	309.0
110°	476.0	483.0	461.0	420.0	369.0



(END OF REPORT)