

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: P829737

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829737
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-200-1)
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
Description: 12000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND AISLE LENS
Light Source: -
Ballast/Driver: -

Summary

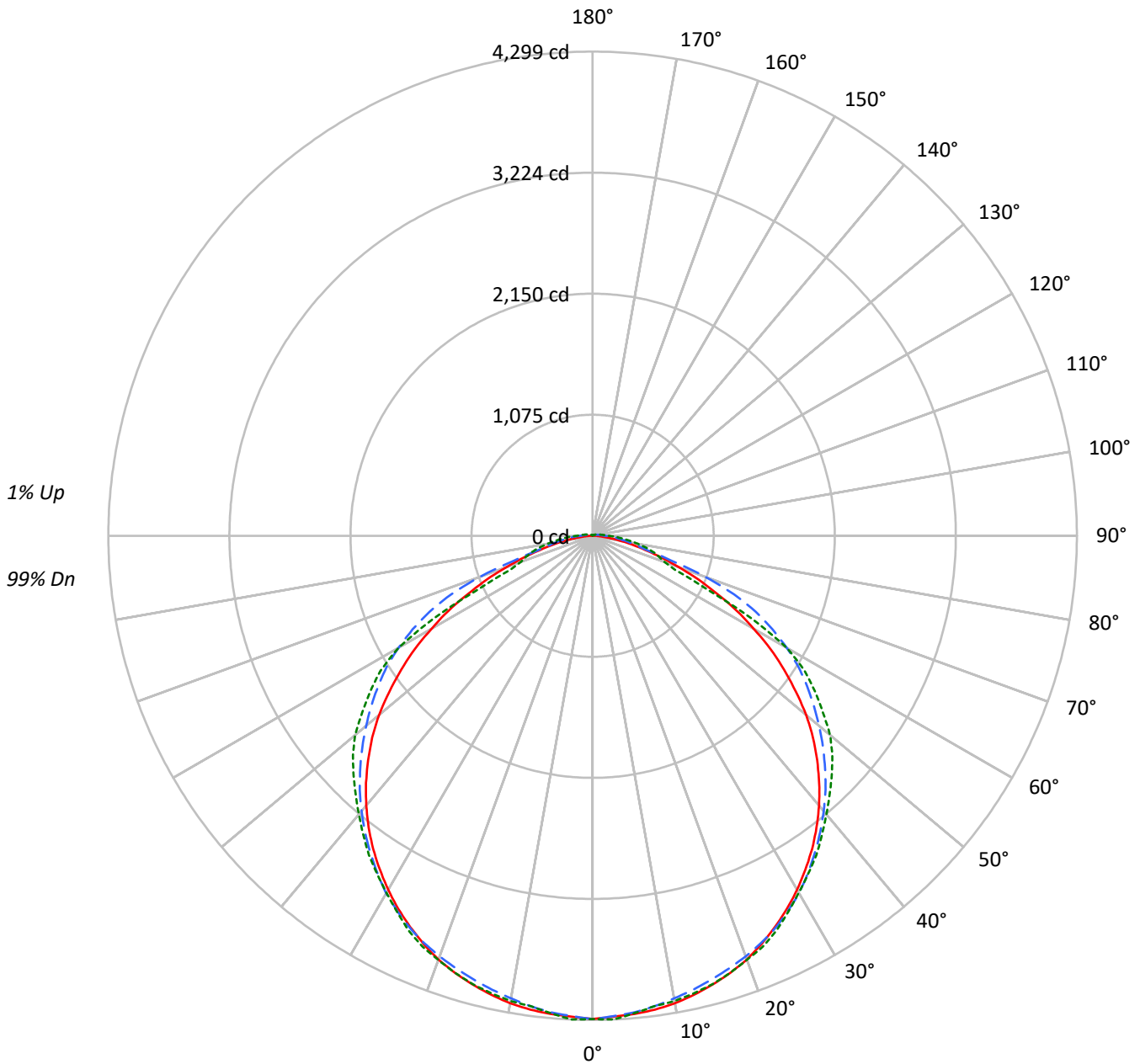
Lumens per Lamp: N/A
Luminaire Lumens: 12127.0 lumens
Efficiency: N/A
Efficacy: 173.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.88' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 70
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				20				20
RC	80				70				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	119	119	119	119	116	116	116	116	110	110	110	106	106	106	101	101	101	99			
1	109	104	100	96	106	102	98	95	97	94	91	93	91	88	90	87	86	83			
2	99	91	84	79	96	89	83	78	85	80	76	82	78	74	79	75	72	70			
3	91	80	72	66	88	79	71	65	75	69	64	72	67	63	70	65	61	59			
4	83	71	62	56	81	70	62	55	67	60	54	65	59	54	62	57	53	51			
5	76	64	55	48	74	62	54	48	60	53	47	58	52	46	56	50	46	44			
6	70	57	48	42	68	56	48	42	54	47	41	52	46	41	51	45	40	38			
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36	34			
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	42	36	32	30			
9	57	43	35	30	55	43	35	29	41	34	29	40	34	29	39	33	29	27			
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	36	30	26	24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13958	13958	13958
5°	13867	13673	13669
10°	13817	13387	13404
15°	13729	13154	13202
20°	13641	12978	12973
25°	13477	12799	12744
30°	13297	12563	12385
35°	13084	12236	12130
40°	12805	11897	11821
45°	12420	11514	11599
50°	11897	11084	11346
55°	11066	10648	10744
60°	9979	10056	9737
65°	8561	9074	6018
70°	6895	6916	4222
75°	5169	3969	4093
80°	3599	3133	3643
85°	2048	2615	3017



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	404.6	3.3
10°-20°	1160.1	9.6
20°-30°	1771.8	14.6
30°-40°	2149.8	17.7
40°-50°	2253.2	18.6
50°-60°	2041.8	16.8
60°-70°	1368.9	11.3
70°-80°	614.7	5.1
80°-90°	223.1	1.8
90°-100°	67.2	0.6
100°-110°	31.7	0.3
110°-120°	15.9	0.1
120°-130°	8.8	0.1
130°-140°	6.0	0.0
140°-150°	4.0	0.0
150°-160°	3.0	0.0
160°-170°	1.9	0.0
170°-180°	0.6	0.0
0°-30°	3336.5	27.5
0°-40°	5486.3	45.2
0°-60°	9781.2	80.7
0°-90°	11987.9	98.9
90°-120°	114.7	0.9
90°-150°	133.6	1.1
90°-180°	139.0	1.1
0°-180°	12127.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4290	4290	4290	4290	4290	
5°	4263	4278	4248	4261	4255	405
15°	4124	4108	4079	4115	4120	1164
25°	3832	3815	3841	3877	3866	1766
35°	3396	3404	3439	3475	3462	2123
45°	2818	2864	2918	2992	3001	2171
55°	2074	2174	2322	2415	2410	1851
65°	1217	1408	1598	1349	1101	1213
75°	479	695	511	523	557	523
85°	82	158	203	245	257	101
90°	1	53	105	132	138	5
95°	1	33	72	88	90	1
105°	2	14	35	43	45	3
115°	5	7	18	23	24	5
125°	4	5	11	13	14	4
135°	6	6	7	10	10	4
145°	6	6	6	7	7	4
155°	6	7	7	7	6	3
165°	7	7	7	7	7	2
175°	7	7	6	6	6	1
180°	6	6	6	6	6	



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CATALOG NUMBER: OHBL-12SE-A-UNV-L840-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4290.5	4290.5	4290.5	4290.5	4290.5
2.5°	4273.2	4291.2	4268.8	4293.0	4299.2
5°	4262.6	4277.5	4247.7	4260.8	4255.2
7.5°	4243.4	4248.4	4213.0	4223.5	4212.4
10°	4214.9	4212.4	4170.8	4191.3	4193.8
12.5°	4172.7	4165.2	4128.0	4159.0	4159.6
15°	4124.3	4108.2	4079.0	4115.0	4119.9
17.5°	4068.4	4047.4	4028.1	4074.7	4067.2
20°	4003.3	3978.5	3974.8	4025.6	4007.0
22.5°	3922.7	3903.4	3912.1	3960.5	3948.7
25°	3831.5	3814.7	3841.4	3876.7	3865.6
27.5°	3735.3	3725.4	3755.8	3783.1	3761.4
30°	3629.8	3624.3	3664.6	3686.9	3659.6
32.5°	3515.1	3516.9	3555.4	3585.8	3560.4
35°	3396.0	3404.0	3438.8	3475.4	3461.7
37.5°	3265.1	3283.0	3317.8	3359.4	3345.1
40°	3126.7	3152.8	3191.2	3241.5	3228.5
42.5°	2977.2	3010.1	3059.7	3115.5	3114.3
45°	2818.4	2864.3	2917.6	2992.1	3001.4
47.5°	2653.4	2704.9	2772.5	2871.7	2886.0
50°	2474.1	2538.6	2623.0	2742.1	2750.8
52.5°	2274.3	2362.4	2474.1	2588.2	2577.7
55°	2073.9	2173.8	2322.1	2415.1	2409.6
57.5°	1874.2	1986.5	2166.4	2232.7	2232.1
60°	1650.8	1792.9	1989.6	2039.8	1990.2
62.5°	1444.2	1596.9	1801.0	1764.4	1594.4
65°	1217.2	1407.6	1598.1	1348.7	1101.2
67.5°	1015.6	1214.1	1357.4	923.7	791.0
70°	812.7	1031.7	1058.4	685.5	676.2
72.5°	632.8	866.0	730.2	586.9	616.7
75°	478.9	694.8	511.2	523.0	557.1
77.5°	349.3	533.5	397.7	458.5	486.4
80°	240.1	377.8	324.5	385.3	404.5
82.5°	150.8	249.4	259.9	310.2	330.0
85°	82.5	158.2	202.9	245.0	256.8
87.5°	34.1	95.5	155.1	189.2	199.1
90°	0.6	52.7	104.8	131.5	137.7
92.5°	0.6	40.3	85.6	106.1	110.4
95°	0.6	32.9	72.0	87.5	90.0
97.5°	1.2	26.1	60.2	72.6	75.1
100°	1.9	21.7	50.3	60.8	62.7
102.5°	2.5	17.4	42.2	50.9	52.7
105°	2.5	14.3	35.4	42.8	44.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	4.3	8.7	21.1	26.7	27.9
115°	5.0	7.4	18.0	23.0	24.2
117.5°	5.0	6.2	15.5	19.2	20.5
120°	5.0	5.6	13.6	16.8	17.4
122.5°	5.0	5.0	11.8	14.9	15.5
125°	4.3	5.0	11.2	13.0	13.6
127.5°	5.0	5.0	9.9	11.8	12.4
130°	5.0	5.6	8.7	11.2	11.2
132.5°	5.6	6.2	8.1	10.5	10.5
135°	5.6	6.2	6.8	9.9	10.5
137.5°	6.2	6.2	6.2	9.3	9.9
140°	6.2	6.2	5.6	8.1	8.7
142.5°	5.6	6.2	5.6	7.4	8.1
145°	5.6	6.2	6.2	6.8	7.4
147.5°	6.2	6.2	6.2	6.2	6.8
150°	6.2	6.2	6.2	6.2	6.2
152.5°	6.2	6.2	6.2	6.2	6.2
155°	6.2	6.8	6.8	6.8	6.2
157.5°	6.2	6.8	6.8	6.8	6.8
160°	6.2	6.8	6.8	6.8	6.8
162.5°	6.8	6.8	6.8	6.8	6.8
165°	6.8	6.8	6.8	6.8	6.8
167.5°	6.8	7.4	6.8	6.8	6.8
170°	6.8	6.8	6.8	6.2	6.2
172.5°	6.8	6.8	6.8	6.2	6.2
175°	6.8	6.8	6.2	5.6	5.6
177.5°	7.4	6.8	6.2	5.6	5.0
180°	6.2	6.2	6.2	6.2	6.2



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	3.1	11.8	30.4	36.6	37.8
110°	3.7	9.9	25.4	31.0	32.3



(END OF REPORT)