

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: P829749

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829749
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-MCL-UNV-L840-CD
Description: 12000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND MEDIUM CLEAR LENS
Light Source: -
Ballast/Driver: -

Summary

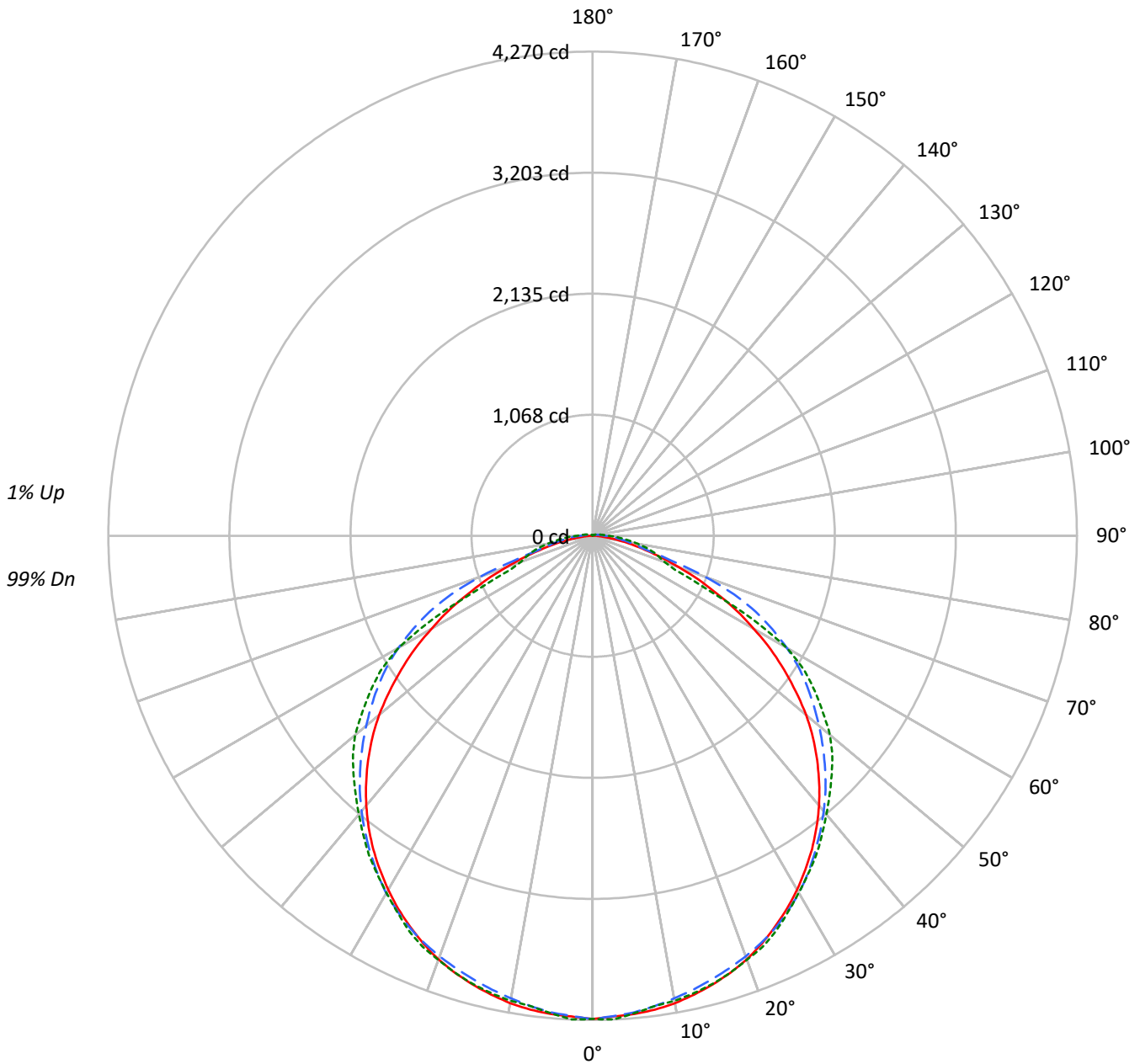
Lumens per Lamp: N/A
Luminaire Lumens: 12044.1 lumens
Efficiency: N/A
Efficacy: 172.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.88' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 70
Input Voltage (V): NR
Input Current (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: P829749

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

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	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°	13863	13863	13863
5°	13772	13580	13575
10°	13722	13295	13312
15°	13635	13064	13112
20°	13548	12889	12884
25°	13384	12712	12657
30°	13206	12477	12301
35°	12994	12152	12047
40°	12717	11815	11740
45°	12335	11435	11520
50°	11815	11008	11268
55°	10991	10575	10670
60°	9911	9987	9670
65°	8502	9012	5977
70°	6848	6868	4193
75°	5135	3942	4065
80°	3573	3110	3617
85°	2033	2597	2997



TEST NUMBER: P829749

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	401.8	3.3
10°-20°	1152.1	9.6
20°-30°	1759.7	14.6
30°-40°	2135.1	17.7
40°-50°	2237.8	18.6
50°-60°	2027.8	16.8
60°-70°	1359.5	11.3
70°-80°	610.5	5.1
80°-90°	221.5	1.8
90°-100°	66.7	0.6
100°-110°	31.5	0.3
110°-120°	15.8	0.1
120°-130°	8.7	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°	3313.6	27.5
0°-40°	5448.7	45.2
0°-60°	9714.3	80.7
0°-90°	11905.9	98.9
90°-120°	113.9	0.9
90°-150°	132.6	1.1
90°-180°	138.0	1.1
0°-180°	12044.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4261	4261	4261	4261	4261	
5°	4234	4248	4219	4232	4226	403
15°	4096	4080	4051	4087	4092	1156
25°	3805	3789	3815	3850	3839	1754
35°	3373	3381	3415	3452	3438	2108
45°	2799	2845	2898	2972	2981	2156
55°	2060	2159	2306	2399	2393	1839
65°	1209	1398	1587	1340	1094	1204
75°	476	690	508	519	553	520
85°	82	157	202	243	255	100
90°	1	52	104	131	137	5
95°	1	33	72	87	89	1
105°	2	14	35	42	44	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	



TEST NUMBER: P829749

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4261.2	4261.2	4261.2	4261.2	4261.2
2.5°	4243.9	4261.8	4239.6	4263.6	4269.8
5°	4233.5	4248.2	4218.7	4231.6	4226.1
7.5°	4214.4	4219.3	4184.2	4194.6	4183.5
10°	4186.0	4183.5	4142.3	4162.6	4165.1
12.5°	4144.1	4136.7	4099.8	4130.6	4131.2
15°	4096.1	4080.0	4051.1	4086.8	4091.7
17.5°	4040.6	4019.7	4000.6	4046.8	4039.4
20°	3975.9	3951.3	3947.6	3998.1	3979.6
22.5°	3895.8	3876.7	3885.3	3933.4	3921.7
25°	3805.2	3788.6	3815.1	3850.2	3839.1
27.5°	3709.7	3699.9	3730.1	3757.2	3735.6
30°	3605.0	3599.5	3639.5	3661.7	3634.6
32.5°	3491.0	3492.9	3531.1	3561.3	3536.0
35°	3372.7	3380.7	3415.2	3451.6	3438.0
37.5°	3242.7	3260.6	3295.1	3336.4	3322.2
40°	3105.3	3131.2	3169.4	3219.3	3206.4
42.5°	2956.8	2989.5	3038.8	3094.2	3093.0
45°	2799.1	2844.7	2897.7	2971.6	2980.9
47.5°	2635.2	2686.3	2753.5	2852.1	2866.3
50°	2457.1	2521.2	2605.0	2723.3	2731.9
52.5°	2258.7	2346.2	2457.1	2570.5	2560.0
55°	2059.7	2158.9	2306.2	2398.6	2393.1
57.5°	1861.3	1972.9	2151.5	2217.5	2216.8
60°	1639.5	1780.6	1975.9	2025.8	1976.6
62.5°	1434.4	1585.9	1788.6	1752.3	1583.5
65°	1208.9	1398.0	1587.2	1339.5	1093.6
67.5°	1008.6	1205.8	1348.1	917.4	785.6
70°	807.1	1024.6	1051.1	680.8	671.6
72.5°	628.5	860.1	725.2	582.9	612.4
75°	475.7	690.1	507.7	519.4	553.3
77.5°	346.9	529.9	394.9	455.3	483.0
80°	238.4	375.2	322.2	382.6	401.7
82.5°	149.7	247.7	258.2	308.1	327.8
85°	81.9	157.1	201.5	243.4	255.1
87.5°	33.9	94.9	154.0	187.9	197.8
90°	0.6	52.4	104.1	130.6	136.8
92.5°	0.6	40.0	85.0	105.4	109.7
95°	0.6	32.7	71.5	86.9	89.3
97.5°	1.2	25.9	59.8	72.1	74.6
100°	1.8	21.6	49.9	60.4	62.2
102.5°	2.5	17.3	41.9	50.5	52.4
105°	2.5	14.2	35.1	42.5	44.4



TEST NUMBER: P829749

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

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	4.3	8.6	20.9	26.5	27.7
115°	4.9	7.4	17.9	22.8	24.0
117.5°	4.9	6.2	15.4	19.1	20.3
120°	4.9	5.5	13.6	16.6	17.3
122.5°	4.9	4.9	11.7	14.8	15.4
125°	4.3	4.9	11.1	12.9	13.6
127.5°	4.9	4.9	9.9	11.7	12.3
130°	4.9	5.5	8.6	11.1	11.1
132.5°	5.5	6.2	8.0	10.5	10.5
135°	5.5	6.2	6.8	9.9	10.5
137.5°	6.2	6.2	6.2	9.2	9.9
140°	6.2	6.2	5.5	8.0	8.6
142.5°	5.5	6.2	5.5	7.4	8.0
145°	5.5	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	5.5	5.5
177.5°	7.4	6.8	6.2	5.5	4.9
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	11.7	30.2	36.4	37.6
110°	3.7	9.9	25.3	30.8	32.0



(END OF REPORT)