

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: P828849

Luminaire Tested: **OHB-12SE-NL-UNV-L840-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P828849
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P472951)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHB-12SE-NL-UNV-L840-CD
Description: 12000 LUMEN OHB SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

Summary

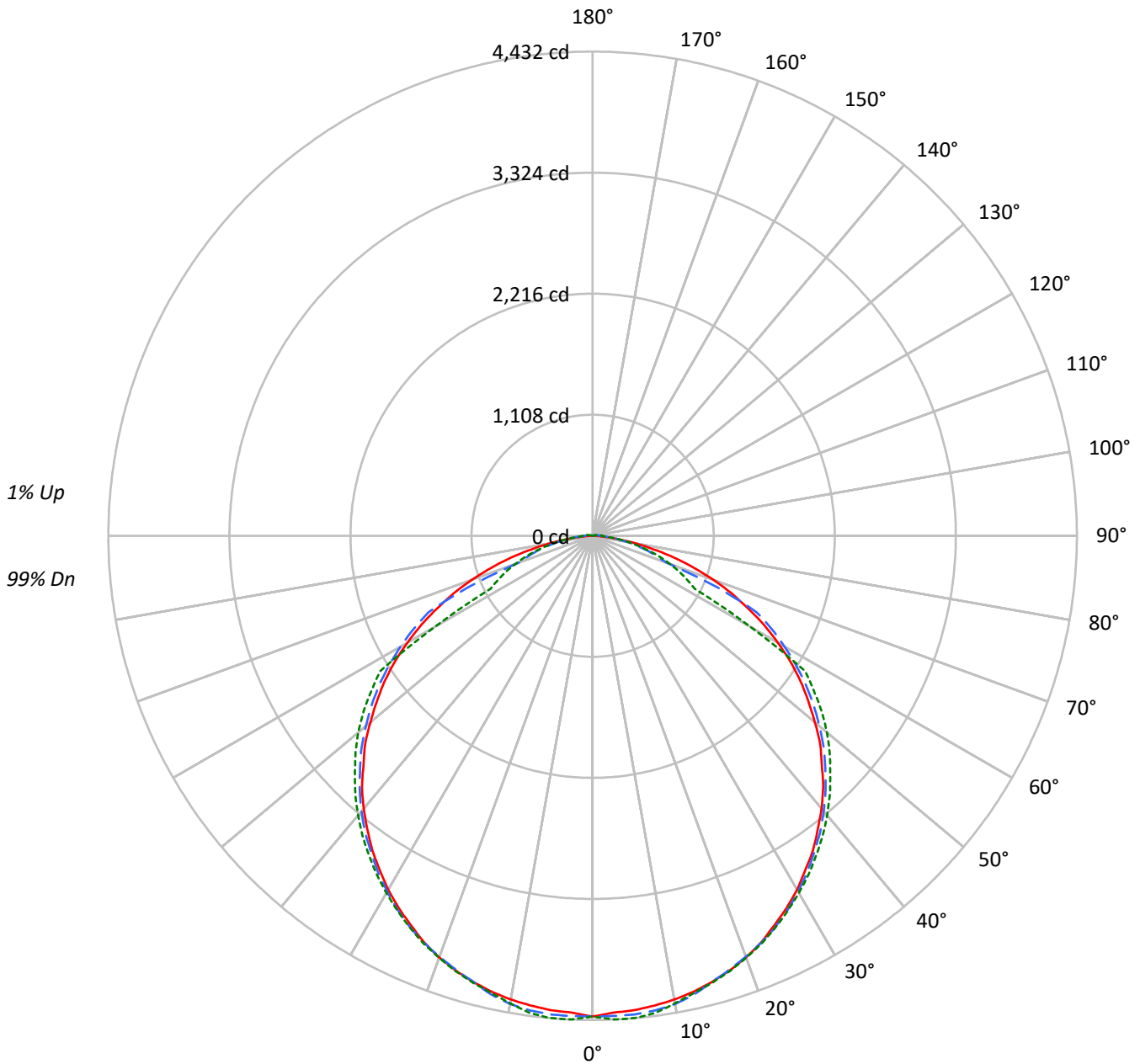
Lumens per Lamp: N/A
Luminaire Lumens: 12353.0 lumens
Efficiency: N/A
Efficacy: 162.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular (W 0.88' x L: 1.93' x H: 0')
CIE Type: Direct

Input Watts (W): 76
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

TEST NUMBER: P828849

CATALOG NUMBER: OHB-12SE-NL-UNV-L840-CD

Luminous Intensity Polar Plot





TEST NUMBER: P828849

CATALOG NUMBER: OHB-12SE-NL-UNV-L840-CD

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	111	111	111	106	106	106	102	102	102					99															
1	109	105	100	97	106	102	99	95	98	95	92	94	91	89	90	88	86					84															
2	99	92	85	79	97	90	84	78	86	81	76	83	78	75	80	76	73					71															
3	91	81	73	66	88	79	72	66	76	70	64	73	68	63	70	66	62					60															
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53					51															
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46					44															
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	45	41					39															
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36					34															
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32					30															
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29					27															
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26					25															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	27996	27996	27996
5°	27841	28093	28305
10°	27848	28113	28078
15°	27844	27839	27900
20°	27806	27764	27832
25°	27616	27756	27778
30°	27488	27630	27738
35°	27310	27460	27717
40°	27074	27331	27734
45°	26683	27086	27678
50°	26282	26817	27703
55°	25779	26447	27398
60°	24915	25799	21330
65°	23573	24943	14356
70°	21802	13242	13932
75°	19018	12582	13305
80°	14624	11542	12195
85°	7381	11666	11944



TEST NUMBER: P828849

CATALOG NUMBER: OHB-12SE-NL-UNV-L840-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	418.0	3.4
10°-20°	1196.8	9.7
20°-30°	1821.1	14.7
30°-40°	2214.2	17.9
40°-50°	2328.1	18.8
50°-60°	2125.9	17.2
60°-70°	1362.8	11.0
70°-80°	643.8	5.2
80°-90°	178.5	1.4
90°-100°	47.3	0.4
100°-110°	12.9	0.1
110°-120°	3.6	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3435.9	27.8
0°-40°	5650.2	45.7
0°-60°	10104.1	81.8
0°-90°	12289.2	99.5
90°-120°	63.8	0.5
90°-150°	63.8	0.5
90°-180°	64.0	0.5
0°-180°	12353.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4400	4400	4400	4400	4400	
5°	4359	4376	4398	4422	4432	415
15°	4227	4258	4226	4232	4235	1193
25°	3934	3940	3954	3960	3957	1815
35°	3516	3495	3535	3578	3568	2197
45°	2965	2960	3010	3081	3076	2292
55°	2324	2306	2384	2464	2470	2072
65°	1566	1566	1657	950	954	1552
75°	774	788	512	539	541	815
85°	101	128	160	173	164	149
90°	0	43	71	84	83	4
95°	2	22	51	69	69	1
105°	4	8	12	12	12	4
115°	4	5	8	5	1	3
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P828849

CATALOG NUMBER: OHB-12SE-NL-UNV-L840-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4399.8	4399.8	4399.8	4399.8	4399.8
2.5°	4368.9	4383.6	4399.8	4420.7	4432.2
5°	4358.9	4375.9	4398.3	4422.2	4431.5
7.5°	4337.3	4361.2	4382.8	4399.8	4405.2
10°	4310.2	4338.8	4351.2	4349.6	4345.8
12.5°	4273.9	4304.1	4300.3	4282.4	4285.6
15°	4226.9	4258.5	4226.1	4232.3	4235.4
17.5°	4171.3	4202.2	4164.3	4176.7	4177.5
20°	4106.5	4129.6	4100.3	4110.3	4110.3
22.5°	4028.5	4044.7	4032.3	4039.3	4040.8
25°	3933.5	3939.6	3953.5	3959.7	3956.6
27.5°	3842.5	3834.7	3861.7	3876.4	3868.6
30°	3741.3	3728.9	3760.6	3784.5	3775.3
32.5°	3625.4	3617.8	3654.1	3682.6	3677.2
35°	3515.8	3495.0	3535.1	3578.4	3568.3
37.5°	3386.1	3373.8	3419.3	3464.9	3459.5
40°	3259.5	3238.7	3290.4	3344.4	3339.0
42.5°	3123.7	3098.9	3155.3	3220.2	3214.0
45°	2965.3	2959.9	3010.1	3081.2	3075.8
47.5°	2824.9	2797.9	2868.1	2936.8	2943.0
50°	2655.0	2645.0	2709.1	2792.5	2798.6
52.5°	2489.1	2482.1	2549.2	2633.4	2644.2
55°	2323.8	2306.0	2384.0	2463.6	2469.8
57.5°	2147.1	2128.5	2208.0	2294.5	2307.6
60°	1957.8	1940.1	2027.3	2107.7	1676.1
62.5°	1768.7	1756.4	1847.5	1308.6	1054.7
65°	1565.7	1565.7	1656.7	950.4	953.5
67.5°	1375.8	1363.5	1235.3	853.8	853.8
70°	1171.9	1176.6	711.8	748.1	748.9
72.5°	967.4	984.4	614.6	643.8	645.4
75°	773.6	788.3	511.8	538.9	541.2
77.5°	568.2	437.0	411.5	432.4	433.1
80°	399.1	275.6	315.0	335.0	332.8
82.5°	233.1	193.0	230.8	245.5	244.7
85°	101.1	128.2	159.8	173.0	163.6
87.5°	32.4	79.5	99.6	107.3	106.5
90°	0.0	43.2	71.0	84.1	82.6
92.5°	0.0	33.9	61.8	77.2	78.0
95°	2.3	22.4	51.0	68.7	68.7
97.5°	1.6	16.2	36.3	54.0	55.6
100°	1.6	13.1	23.9	38.6	39.4
102.5°	3.8	10.8	14.6	24.7	25.5
105°	3.8	8.5	12.3	12.3	11.6



TEST NUMBER: P828849

CATALOG NUMBER: OHB-12SE-NL-UNV-L840-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	4.7	6.2	8.5	6.2	0.7
115°	3.8	5.4	7.7	5.4	0.7
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	3.8	7.7	10.8	6.9	2.3
110°	4.7	6.9	9.2	6.2	0.7



(END OF REPORT)