

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: P829465

Luminaire Tested: **OHB-36SE-MCL-UNV-L940-CD**

Issue Date: 5/3/2024



**Test Information**

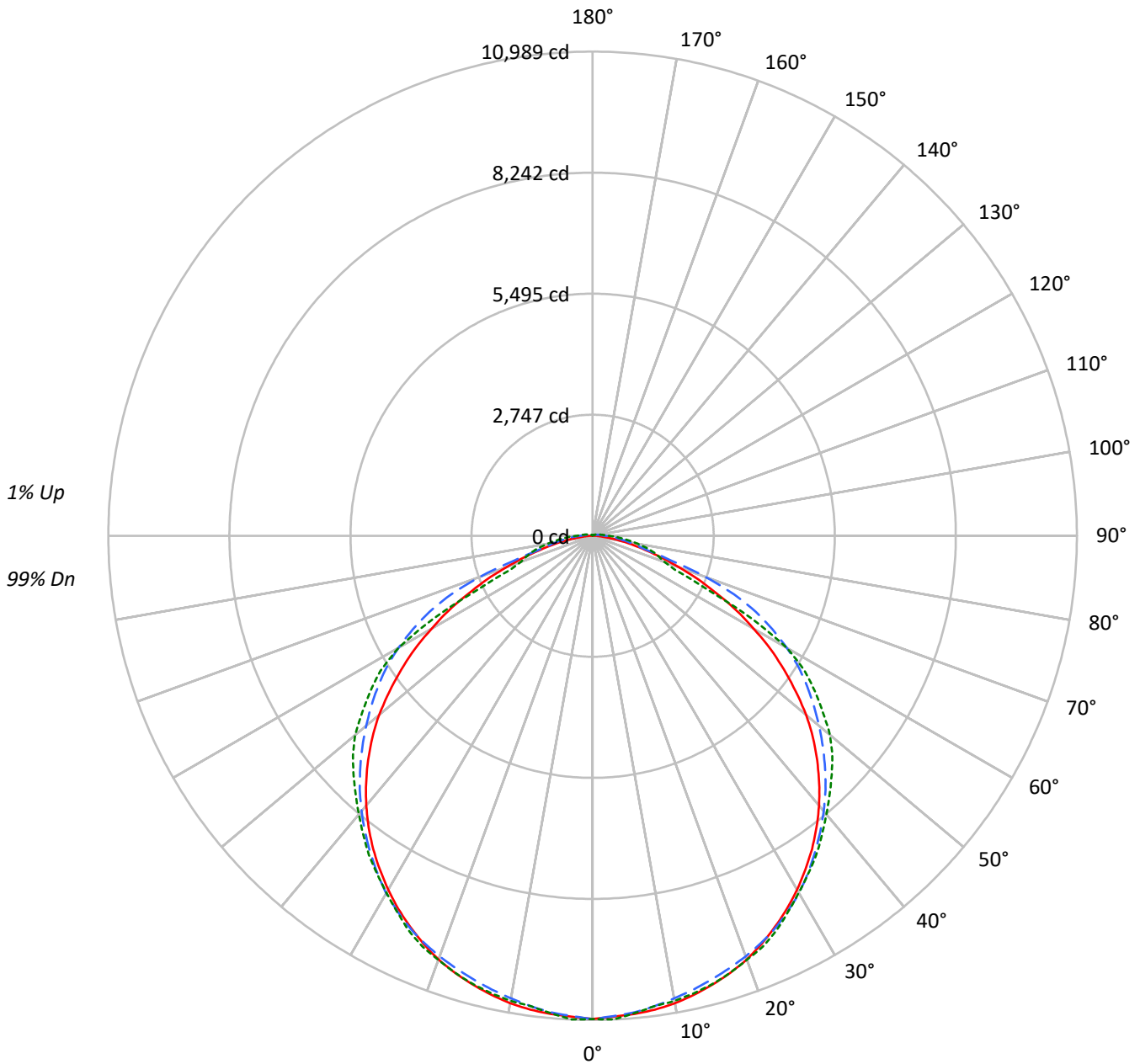
Test Method: LM-79-08  
Report Number: P829465  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-200-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHB-36SE-MCL-UNV-L940-CD  
Description: 36000 LUMEN OHB SE LED LUMINAIRE WITH 90CRI, 4000K LEDS AND MEDIUM CLEAR LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30997.0 lumens  
Efficiency: N/A  
Efficacy: 137.2 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 1.93' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 226  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	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°	33921	33921	33921
5°	33576	33342	33499
10°	33330	32753	33126
15°	32995	32292	32905
20°	32657	31970	32613
25°	32131	31644	32325
30°	31566	31178	31713
35°	30910	30489	31376
40°	30092	29776	30917
45°	29010	28959	30714
50°	27594	28036	30470
55°	25452	27111	29333
60°	22711	25807	27119
65°	19217	23518	17186
70°	15188	18156	12460
75°	11068	10608	12647
80°	7341	8602	12074
85°	3770	7525	11318



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1034.1	3.3
10°-20°	2965.2	9.6
20°-30°	4528.8	14.6
30°-40°	5495.0	17.7
40°-50°	5759.3	18.6
50°-60°	5218.8	16.8
60°-70°	3499.0	11.3
70°-80°	1571.2	5.1
80°-90°	570.2	1.8
90°-100°	171.6	0.6
100°-110°	81.0	0.3
110°-120°	40.6	0.1
120°-130°	22.4	0.1
130°-140°	15.4	0.0
140°-150°	10.4	0.0
150°-160°	7.7	0.0
160°-170°	4.9	0.0
170°-180°	1.6	0.0
0°-30°	8528.1	27.5
0°-40°	14023.1	45.2
0°-60°	25001.1	80.7
0°-90°	30641.5	98.9
90°-120°	293.2	0.9
90°-150°	341.4	1.1
90°-180°	356.0	1.1
0°-180°	30997.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	10967	10967	10967	10967	10967	
5°	10895	10934	10857	10891	10876	###
15°	10542	10501	10426	10518	10531	2976
25°	9793	9750	9819	9909	9881	4514
35°	8680	8701	8790	8883	8848	5425
45°	7204	7321	7458	7648	7672	5549
55°	5301	5556	5935	6173	6159	4732
65°	3111	3598	4085	3447	2815	3100
75°	1224	1776	1307	1337	1424	1338
85°	211	404	518	626	656	257
90°	2	135	268	336	352	13
95°	2	84	184	224	230	2
105°	6	36	90	109	114	7
115°	13	19	46	59	62	12
125°	11	13	28	33	35	11
135°	14	16	17	25	27	11
145°	14	16	16	17	19	9
155°	16	17	17	17	16	7
165°	17	17	17	17	17	5
175°	17	17	16	14	14	2
180°	16	16	16	16	16	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	10966.8	10966.8	10966.8	10966.8	10966.8
2.5°	10922.4	10968.4	10911.3	10973.1	10989.0
5°	10895.4	10933.5	10857.4	10890.7	10876.4
7.5°	10846.3	10858.9	10768.6	10795.5	10767.0
10°	10773.3	10767.0	10660.7	10713.1	10719.4
12.5°	10665.5	10646.5	10551.3	10630.6	10632.2
15°	10541.8	10500.6	10426.0	10518.0	10530.7
17.5°	10399.1	10345.2	10296.0	10414.9	10395.9
20°	10232.6	10169.2	10159.6	10289.7	10242.1
22.5°	10026.4	9977.3	9999.5	10123.2	10093.0
25°	9793.3	9750.5	9818.7	9909.1	9880.6
27.5°	9547.6	9522.2	9599.9	9669.7	9614.2
30°	9278.0	9263.7	9366.8	9423.9	9354.1
32.5°	8984.6	8989.4	9087.7	9165.4	9100.4
35°	8680.2	8700.8	8789.6	8883.1	8848.3
37.5°	8345.6	8391.6	8480.4	8586.6	8550.1
40°	7992.0	8058.6	8156.9	8285.3	8252.0
42.5°	7609.8	7693.9	7820.7	7963.4	7960.3
45°	7203.9	7321.2	7457.6	7647.9	7671.7
47.5°	6782.1	6913.7	7086.5	7340.2	7376.7
50°	6323.8	6488.7	6704.4	7008.8	7031.0
52.5°	5813.2	6038.4	6323.8	6615.6	6588.6
55°	5301.0	5556.3	5935.3	6173.2	6158.9
57.5°	4790.4	5077.4	5537.3	5707.0	5705.4
60°	4219.6	4582.7	5085.4	5213.8	5087.0
62.5°	3691.5	4081.6	4603.3	4509.8	4075.3
65°	3111.2	3598.0	4084.8	3447.3	2814.6
67.5°	2595.8	3103.2	3469.5	2361.1	2021.8
70°	2077.3	2637.0	2705.2	1752.2	1728.4
72.5°	1617.4	2213.7	1866.4	1500.1	1576.2
75°	1224.2	1776.0	1306.6	1336.8	1424.0
77.5°	892.8	1363.7	1016.4	1171.8	1243.2
80°	613.7	965.7	829.3	984.7	1033.9
82.5°	385.3	637.5	664.4	792.9	843.6
85°	210.9	404.4	518.5	626.4	656.5
87.5°	87.2	244.2	396.4	483.6	509.0
90°	1.6	134.8	268.0	336.2	352.0
92.5°	1.6	103.1	218.8	271.2	282.3
95°	1.6	84.0	183.9	223.6	229.9
97.5°	3.2	66.6	153.8	185.5	191.9
100°	4.8	55.5	128.4	155.4	160.2
102.5°	6.3	44.4	107.8	130.0	134.8
105°	6.3	36.5	90.4	109.4	114.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	11.1	22.2	53.9	68.2	71.4
115°	12.7	19.0	46.0	58.7	61.8
117.5°	12.7	15.9	39.6	49.2	52.3
120°	12.7	14.3	34.9	42.8	44.4
122.5°	12.7	12.7	30.1	38.1	39.6
125°	11.1	12.7	28.5	33.3	34.9
127.5°	12.7	12.7	25.4	30.1	31.7
130°	12.7	14.3	22.2	28.5	28.5
132.5°	14.3	15.9	20.6	27.0	27.0
135°	14.3	15.9	17.4	25.4	27.0
137.5°	15.9	15.9	15.9	23.8	25.4
140°	15.9	15.9	14.3	20.6	22.2
142.5°	14.3	15.9	14.3	19.0	20.6
145°	14.3	15.9	15.9	17.4	19.0
147.5°	15.9	15.9	15.9	15.9	17.4
150°	15.9	15.9	15.9	15.9	15.9
152.5°	15.9	15.9	15.9	15.9	15.9
155°	15.9	17.4	17.4	17.4	15.9
157.5°	15.9	17.4	17.4	17.4	17.4
160°	15.9	17.4	17.4	17.4	17.4
162.5°	17.4	17.4	17.4	17.4	17.4
165°	17.4	17.4	17.4	17.4	17.4
167.5°	17.4	19.0	17.4	17.4	17.4
170°	17.4	17.4	17.4	15.9	15.9
172.5°	17.4	17.4	17.4	15.9	15.9
175°	17.4	17.4	15.9	14.3	14.3
177.5°	19.0	17.4	15.9	14.3	12.7
180°	15.9	15.9	15.9	15.9	15.9



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	7.9	30.1	77.7	93.6	96.7
110°	9.5	25.4	65.0	79.3	82.5



(END OF REPORT)