

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: P829681

Luminaire Tested: **OHBL-100SE-MCL-UNV-L940-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829681
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-100SE-MCL-UNV-L940-CD
Description: 100000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 4000K LEDS AND MEDIUM CLEAR LENS
Light Source: -
Ballast/Driver: -

Summary

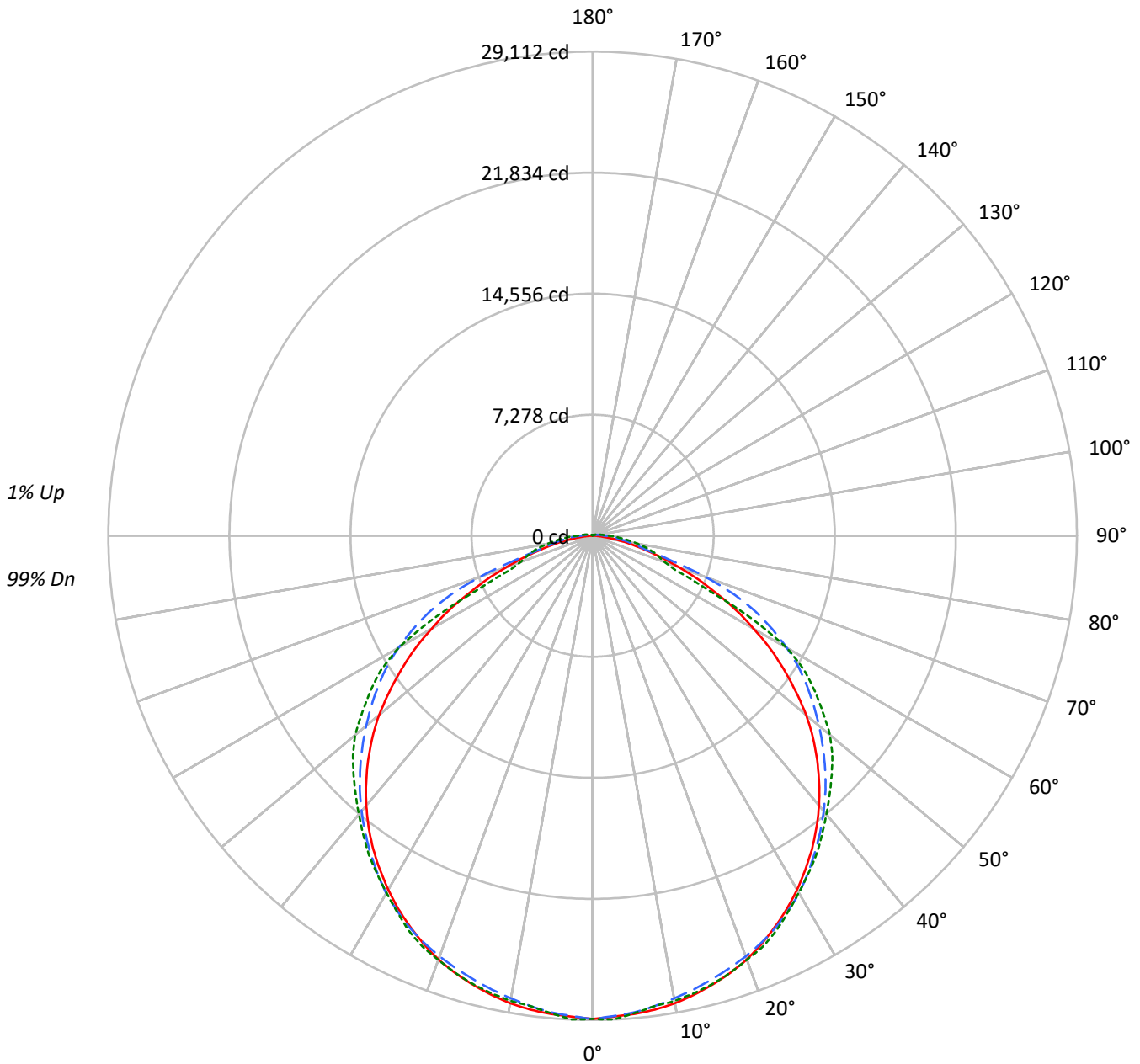
Lumens per Lamp: N/A
Luminaire Lumens: 82116.0 lumens
Efficiency: N/A
Efficacy: 139.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 590.1
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	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°	45946	45946	45946
5°	45646	45279	45374
10°	45478	44593	44870
15°	45190	44080	44570
20°	44901	43757	44175
25°	44360	43431	43784
30°	43770	42919	42956
35°	43066	42105	42499
40°	42150	41264	41877
45°	40880	40291	41602
50°	39160	39184	41272
55°	36427	38095	39732
60°	32848	36500	36732
65°	28178	33542	23279
70°	22696	26184	16878
75°	17016	15544	17130
80°	11844	12924	16354
85°	6741	11842	15330



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2739.4	3.3
10°-20°	7855.3	9.6
20°-30°	11997.5	14.6
30°-40°	14557.1	17.7
40°-50°	15257.3	18.6
50°-60°	13825.4	16.8
60°-70°	9269.4	11.3
70°-80°	4162.4	5.1
80°-90°	1510.5	1.8
90°-100°	454.7	0.6
100°-110°	214.5	0.3
110°-120°	107.5	0.1
120°-130°	59.3	0.1
130°-140°	40.8	0.0
140°-150°	27.4	0.0
150°-160°	20.4	0.0
160°-170°	13.1	0.0
170°-180°	4.2	0.0
0°-30°	22592.2	27.5
0°-40°	37149.4	45.2
0°-60°	66232.0	80.7
0°-90°	81174.2	98.9
90°-120°	776.7	0.9
90°-150°	904.2	1.1
90°-180°	942.0	1.1
0°-180°	82116.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	29053	29053	29053	29053	29053	
5°	28864	28964	28763	28851	28813	###
15°	27927	27818	27620	27864	27898	7885
25°	25944	25831	26011	26251	26175	11959
35°	22995	23050	23285	23533	23440	14373
45°	19084	19395	19756	20260	20324	14701
55°	14043	14720	15724	16354	16316	12535
65°	8242	9532	10821	9132	7456	8212
75°	3243	4705	3462	3541	3772	3544
85°	559	1071	1374	1659	1739	682
90°	4	357	710	891	933	33
95°	4	223	487	592	609	6
105°	17	97	239	290	302	19
115°	34	50	122	155	164	31
125°	29	34	76	88	92	29
135°	38	42	46	67	71	30
145°	38	42	42	46	50	25
155°	42	46	46	46	42	19
165°	46	46	46	46	46	13
175°	46	46	42	38	38	4
180°	42	42	42	42	42	



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CATALOG NUMBER: OHBL-100SE-MCL-UNV-L940-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	29052.7	29052.7	29052.7	29052.7	29052.7
2.5°	28935.1	29056.9	28905.7	29069.5	29111.5
5°	28863.7	28964.5	28762.9	28851.1	28813.3
7.5°	28733.4	28767.1	28527.6	28599.0	28523.4
10°	28540.2	28523.4	28242.0	28380.6	28397.4
12.5°	28254.6	28204.1	27952.1	28162.1	28166.3
15°	27926.9	27817.7	27620.2	27863.9	27897.5
17.5°	27548.8	27406.0	27275.8	27590.8	27540.4
20°	27107.7	26939.7	26914.5	27259.0	27132.9
22.5°	26561.6	26431.4	26490.2	26817.9	26738.1
25°	25944.1	25830.7	26011.3	26250.8	26175.2
27.5°	25293.0	25225.8	25431.6	25616.5	25469.4
30°	24578.9	24541.1	24814.1	24965.3	24780.5
32.5°	23801.7	23814.3	24074.8	24280.6	24108.4
35°	22995.2	23049.8	23285.0	23532.9	23440.4
37.5°	22108.8	22230.6	22465.9	22747.3	22650.7
40°	21172.0	21348.4	21608.9	21949.2	21860.9
42.5°	20159.6	20382.3	20718.3	21096.4	21088.0
45°	19084.2	19395.1	19756.3	20260.4	20323.5
47.5°	17966.8	18315.5	18773.4	19445.5	19542.1
50°	16752.8	17189.7	17761.0	18567.5	18626.3
52.5°	15400.1	15996.6	16752.8	17525.7	17454.3
55°	14043.3	14719.6	15723.6	16353.7	16315.9
57.5°	12690.6	13451.0	14669.2	15118.7	15114.5
60°	11178.3	12140.3	13472.0	13812.2	13476.2
62.5°	9779.5	10812.9	12194.9	11947.1	10796.0
65°	8242.0	9531.6	10821.3	9132.5	7456.4
67.5°	6876.7	8221.0	9191.3	6255.0	5356.0
70°	5503.0	6985.9	7166.6	4641.9	4578.9
72.5°	4284.8	5864.3	4944.3	3974.0	4175.6
75°	3243.0	4704.9	3461.5	3541.3	3772.3
77.5°	2365.0	3612.7	2692.7	3104.4	3293.4
80°	1625.7	2558.3	2197.0	2608.7	2738.9
82.5°	1020.8	1688.7	1760.1	2100.4	2234.8
85°	558.7	1071.2	1373.7	1659.3	1739.1
87.5°	231.0	646.9	1050.2	1281.2	1348.5
90°	4.2	357.1	709.9	890.6	932.6
92.5°	4.2	273.1	579.7	718.3	747.7
95°	4.2	222.6	487.3	592.3	609.1
97.5°	8.4	176.4	407.5	491.5	508.3
100°	12.6	147.0	340.3	411.7	424.3
102.5°	16.8	117.6	285.7	344.5	357.1
105°	16.8	96.6	239.4	289.9	302.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	29.4	58.8	142.8	180.6	189.0
115°	33.6	50.4	121.8	155.4	163.8
117.5°	33.6	42.0	105.0	130.2	138.6
120°	33.6	37.8	92.4	113.4	117.6
122.5°	33.6	33.6	79.8	100.8	105.0
125°	29.4	33.6	75.6	88.2	92.4
127.5°	33.6	33.6	67.2	79.8	84.0
130°	33.6	37.8	58.8	75.6	75.6
132.5°	37.8	42.0	54.6	71.4	71.4
135°	37.8	42.0	46.2	67.2	71.4
137.5°	42.0	42.0	42.0	63.0	67.2
140°	42.0	42.0	37.8	54.6	58.8
142.5°	37.8	42.0	37.8	50.4	54.6
145°	37.8	42.0	42.0	46.2	50.4
147.5°	42.0	42.0	42.0	42.0	46.2
150°	42.0	42.0	42.0	42.0	42.0
152.5°	42.0	42.0	42.0	42.0	42.0
155°	42.0	46.2	46.2	46.2	42.0
157.5°	42.0	46.2	46.2	46.2	46.2
160°	42.0	46.2	46.2	46.2	46.2
162.5°	46.2	46.2	46.2	46.2	46.2
165°	46.2	46.2	46.2	46.2	46.2
167.5°	46.2	50.4	46.2	46.2	46.2
170°	46.2	46.2	46.2	42.0	42.0
172.5°	46.2	46.2	46.2	42.0	42.0
175°	46.2	46.2	42.0	37.8	37.8
177.5°	50.4	46.2	42.0	37.8	33.6
180°	42.0	42.0	42.0	42.0	42.0



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	21.0	79.8	205.8	247.8	256.2
110°	25.2	67.2	172.2	210.0	218.4



(END OF REPORT)