

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: P829690

Luminaire Tested: **OHBL-100SE-MFL-UNV-L850-CD**

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P829690
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-100SE-MFL-UNV-L850-CD
Description: 100000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND MEDIUM FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

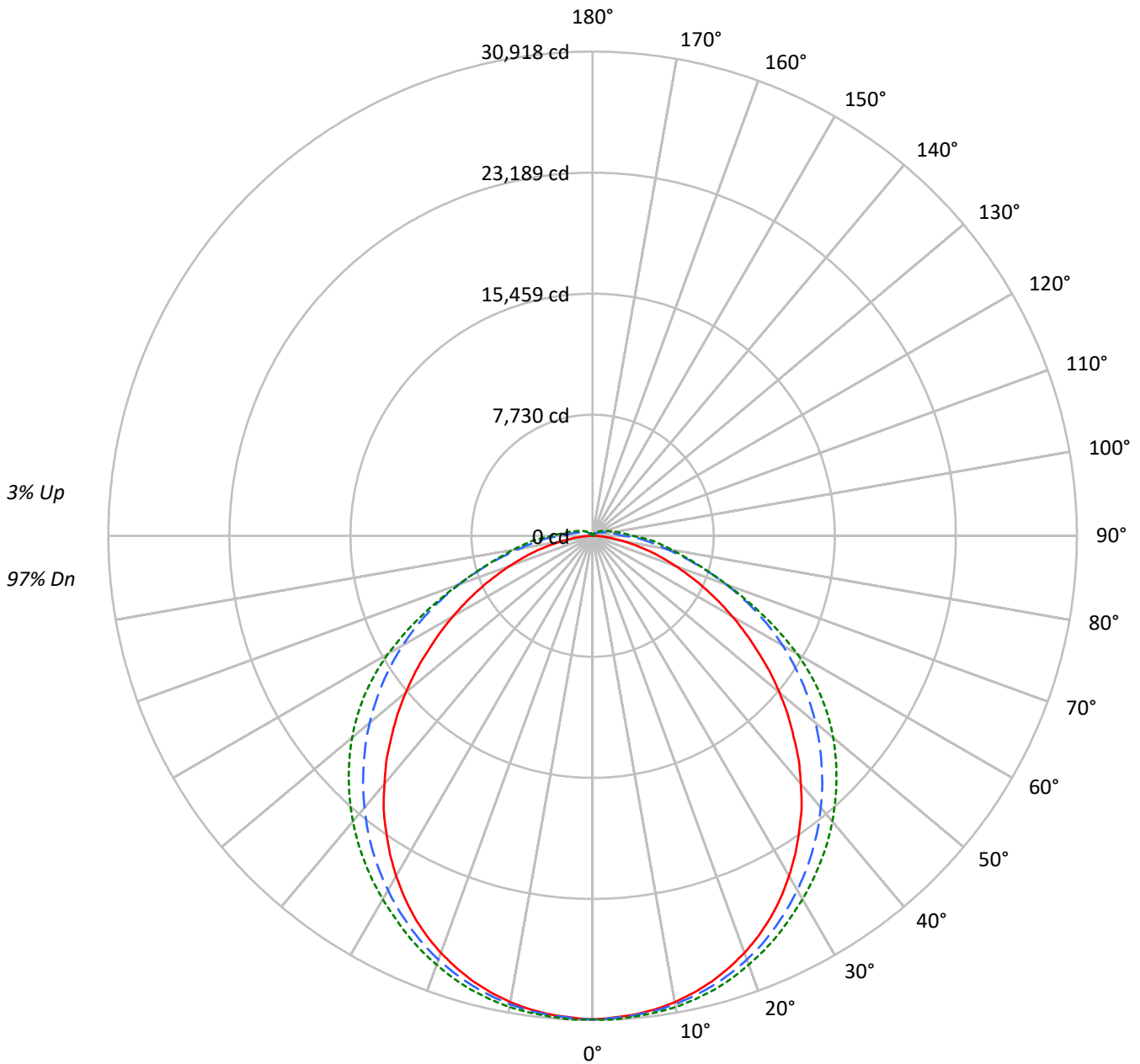
Lumens per Lamp: N/A
Luminaire Lumens: 92442.0 lumens
Efficiency: N/A
Efficacy: 156.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

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

TEST NUMBER: P829690

CATALOG NUMBER: OHBL-100SE-MFL-UNV-L850-CD

Luminous Intensity Polar Plot





TEST NUMBER: P829690

CATALOG NUMBER: OHBL-100SE-MFL-UNV-L850-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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	97																	
1	107	102	98	94	104	100	96	92	95	91	88	90	88	85	86	84	82	82	82	80																	
2	98	89	82	76	95	87	80	75	83	77	73	79	74	71	75	72	68	68	68	66																	
3	89	78	70	63	86	76	69	62	73	66	61	70	64	59	67	62	58	58	58	56																	
4	81	69	60	53	79	68	59	53	65	57	52	62	56	51	59	54	50	50	50	47																	
5	75	62	53	46	72	60	52	46	58	50	45	56	49	44	53	48	43	43	43	41																	
6	69	56	47	40	67	54	46	40	52	45	39	50	44	39	48	43	38	38	38	36																	
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	44	38	34	34	34	32																	
8	60	46	37	31	58	45	37	31	43	36	31	42	35	31	41	35	30	30	30	28																	
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	37	32	27	27	27	25																	
10	52	39	31	26	51	38	31	26	37	30	25	36	29	25	35	29	25	25	25	23																	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	48848	48848	48848
5°	48536	48386	48534
10°	48195	47959	48279
15°	47657	47449	47946
20°	46943	46825	47457
25°	45988	46045	46963
30°	44666	45200	46466
35°	43067	44302	46037
40°	41145	43263	45615
45°	38880	42134	45076
50°	36401	40994	44421
55°	33354	39597	43315
60°	30233	37952	41107
65°	26827	35849	37478
70°	23134	33171	33548
75°	19396	30076	30894
80°	14706	27838	30649
85°	9304	28935	34249



TEST NUMBER: P829690

CATALOG NUMBER: OHBL-100SE-MFL-UNV-L850-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2926.8	3.2
10°-20°	8396.5	9.1
20°-30°	12698.3	13.7
30°-40°	15244.4	16.5
40°-50°	15745.0	17.0
50°-60°	14165.6	15.3
60°-70°	10670.7	11.5
70°-80°	6443.3	7.0
80°-90°	3151.3	3.4
90°-100°	1326.5	1.4
100°-110°	757.2	0.8
110°-120°	444.5	0.5
120°-130°	251.4	0.3
130°-140°	132.3	0.1
140°-150°	64.4	0.1
150°-160°	23.9	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	24021.6	26.0
0°-40°	39266.0	42.5
0°-60°	69176.5	74.8
0°-90°	89441.9	96.8
90°-120°	2528.1	2.7
90°-150°	2976.2	3.2
90°-180°	3000.0	3.2
0°-180°	92442.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	30888	30888	30888	30888	30888	
5°	30691	30774	30737	30858	30820	###
15°	29452	29595	29731	29981	30011	8303
25°	26896	27191	27577	28008	28076	12372
35°	22996	23532	24500	25241	25392	14376
45°	18150	19065	20660	21786	22021	14012
55°	12859	14189	16344	17576	17787	11529
65°	7847	9449	11566	12140	12004	7796
75°	3697	5307	6698	6872	6804	3944
85°	771	2034	3356	3818	3886	891
90°	0	794	1920	2419	2517	49
95°	38	537	1436	1829	1897	32
105°	53	310	832	1089	1134	53
115°	60	174	514	688	718	62
125°	60	83	310	446	469	54
135°	53	68	159	272	302	42
145°	76	68	76	136	159	45
155°	76	83	76	68	76	23
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P829690

CATALOG NUMBER: OHBL-100SE-MFL-UNV-L850-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	30887.8	30887.8	30887.8	<i>30887.8</i>	30887.8
2.5°	<i>30797.1</i>	<i>30872.7</i>	<i>30827.3</i>	<i>30925.6</i>	<i>30918.1</i>
5°	30691.3	30774.4	30736.6	<i>30857.6</i>	30819.8
7.5°	30509.8	30600.6	30593.0	<i>30729.1</i>	30713.9
10°	30245.3	30343.5	30373.8	<i>30555.2</i>	30555.2
12.5°	29882.4	30010.9	30086.5	<i>30305.7</i>	30313.3
15°	29451.5	29595.2	29731.2	<i>29980.7</i>	30010.9
17.5°	28929.9	29111.3	29300.3	<i>29587.6</i>	29625.4
20°	28340.3	28544.4	28801.4	<i>29103.8</i>	29149.1
22.5°	27659.9	27901.8	28234.5	<i>28589.7</i>	28642.7
25°	26896.4	27191.3	27576.8	<i>28007.7</i>	28075.7
27.5°	26027.1	26367.3	26888.9	<i>27372.7</i>	27433.2
30°	25082.2	25482.8	26132.9	<i>26707.5</i>	26805.7
32.5°	24084.3	24545.5	25346.8	<i>25989.3</i>	26125.4
35°	22995.8	23532.5	24500.1	<i>25240.9</i>	25392.1
37.5°	21922.3	22512.0	23608.1	<i>24454.7</i>	24636.2
40°	20667.5	21400.7	22655.6	<i>23593.0</i>	23812.2
42.5°	19488.2	20281.9	21703.1	<i>22723.6</i>	22935.3
45°	18150.2	19064.9	20659.9	<i>21786.3</i>	22020.6
47.5°	16895.3	17885.6	19654.5	<i>20818.7</i>	21060.6
50°	15572.4	16661.0	18581.1	<i>19798.1</i>	20047.6
52.5°	14249.5	15421.2	17469.8	<i>18732.3</i>	18966.6
55°	12858.6	14189.0	16343.5	<i>17575.7</i>	17787.3
57.5°	11565.9	12972.0	15186.9	<i>16358.6</i>	16487.1
60°	10288.4	11747.3	14007.6	<i>15035.7</i>	15081.1
62.5°	9041.1	10575.6	12798.1	<i>13614.5</i>	13554.1
65°	7846.7	9449.3	11565.9	<i>12140.4</i>	12004.4
67.5°	6697.7	8353.2	10303.5	<i>10673.9</i>	10492.5
70°	5609.1	7287.3	9078.9	<i>9267.9</i>	9101.5
72.5°	4649.0	6274.3	7839.1	<i>7997.9</i>	7876.9
75°	3696.6	5306.7	6697.7	<i>6871.5</i>	6803.5
77.5°	2804.5	4369.3	5646.9	<i>5873.7</i>	5888.8
80°	2018.4	3515.1	4732.2	<i>5087.5</i>	5132.9
82.5°	1330.5	2729.0	3968.7	<i>4422.3</i>	4490.3
85°	771.1	2033.5	3356.4	<i>3817.5</i>	3885.5
87.5°	332.6	1466.5	2698.7	<i>3114.5</i>	3197.6
90°	0.0	793.7	1920.1	<i>2419.0</i>	2517.3
92.5°	22.7	657.7	1648.0	<i>2101.5</i>	2184.7
95°	37.8	536.7	1436.3	<i>1829.4</i>	1897.4
97.5°	45.4	453.6	1247.3	<i>1595.0</i>	1663.1
100°	45.4	393.1	1081.0	<i>1398.5</i>	1459.0
102.5°	45.4	347.7	944.9	<i>1224.6</i>	1277.5
105°	52.9	309.9	831.5	<i>1088.6</i>	1133.9



TEST NUMBER: P829690

CATALOG NUMBER: OHBL-100SE-MFL-UNV-L850-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	60.5	204.1	574.5	771.1	801.3
115°	60.5	173.9	514.0	687.9	718.1
117.5°	68.0	151.2	453.6	619.9	642.6
120°	68.0	128.5	400.6	551.8	582.1
122.5°	68.0	105.8	355.3	498.9	521.6
125°	60.5	83.2	309.9	446.0	468.7
127.5°	52.9	68.0	264.6	400.6	423.3
130°	52.9	60.5	226.8	355.3	378.0
132.5°	52.9	68.0	189.0	309.9	340.2
135°	52.9	68.0	158.7	272.1	302.4
137.5°	52.9	68.0	128.5	234.3	264.6
140°	60.5	68.0	105.8	196.5	226.8
142.5°	68.0	68.0	83.2	166.3	189.0
145°	75.6	68.0	75.6	136.1	158.7
147.5°	75.6	75.6	75.6	105.8	128.5
150°	75.6	83.2	75.6	83.2	105.8
152.5°	75.6	83.2	75.6	68.0	83.2
155°	75.6	83.2	75.6	68.0	75.6
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°	52.9	272.1	733.3	967.6	1005.4
110°	52.9	241.9	650.1	861.8	899.6



(END OF REPORT)