

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: P829688

Luminaire Tested: **OHBL-100SE-MFL-UNV-L835-CD**

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P829688
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-L835-CD
Description: 100000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 3500K LEDS AND MEDIUM FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

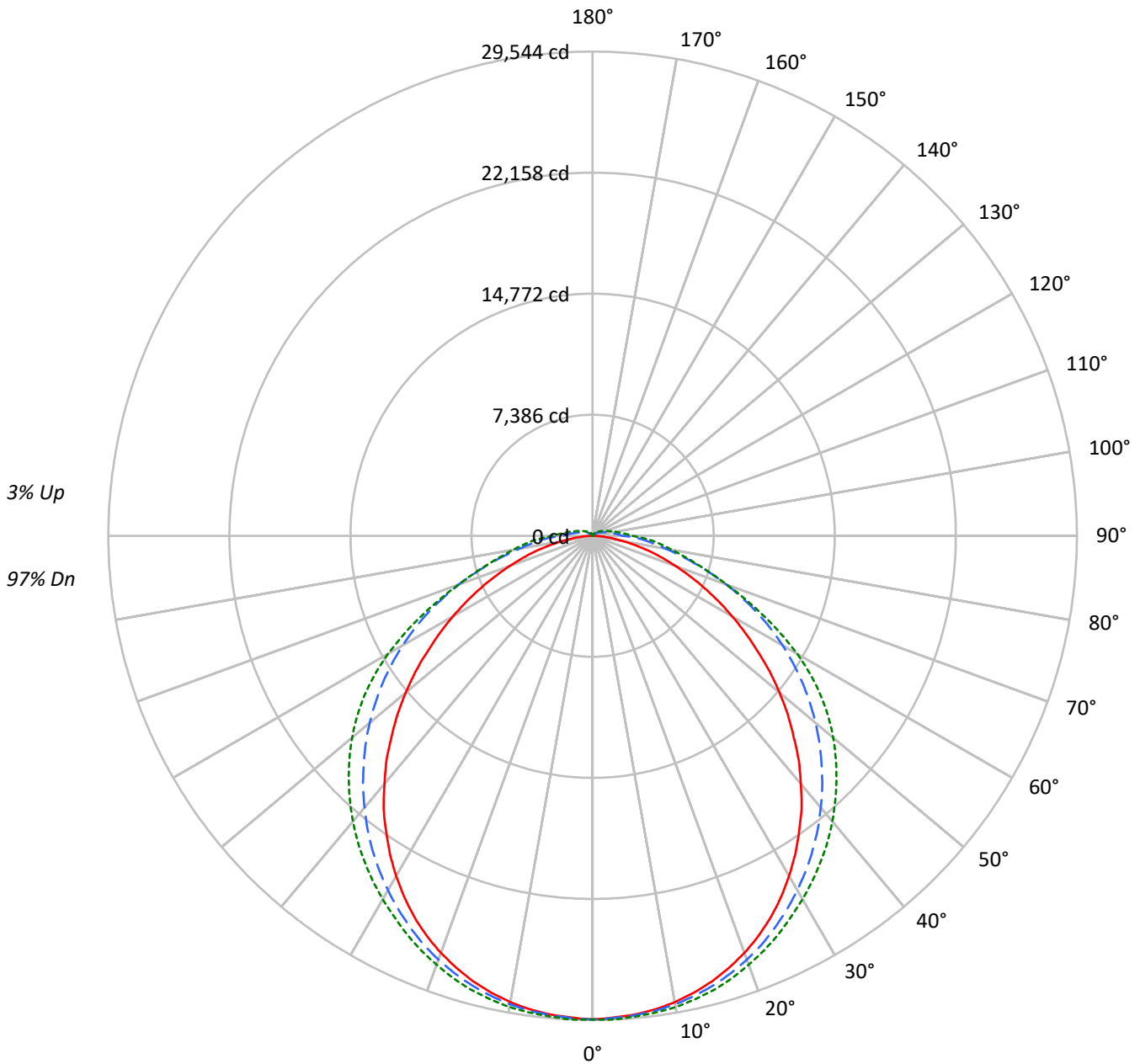
Lumens per Lamp: N/A
Luminaire Lumens: 88334.0 lumens
Efficiency: N/A
Efficacy: 149.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

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

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				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	99	97
1	107	102	98	94	104	100	96	92	95	91	88	90	88	85	86	84	82	82	82	82	80
2	98	89	82	76	95	87	80	75	83	77	73	79	74	71	75	72	68	68	68	68	66
3	89	78	70	63	86	76	69	62	73	66	61	70	64	59	67	62	58	58	58	58	56
4	81	69	60	53	79	68	59	53	65	57	52	62	56	51	59	54	50	50	50	50	47
5	75	62	53	46	72	60	52	46	58	50	45	56	49	44	53	48	43	43	43	43	41
6	69	56	47	40	67	54	46	40	52	45	39	50	44	39	48	43	38	38	38	38	36
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	44	38	34	34	34	34	32
8	60	46	37	31	58	45	37	31	43	36	31	42	35	31	41	35	30	30	30	30	28
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	37	32	27	27	27	27	25
10	52	39	31	26	51	38	31	26	37	30	25	36	29	25	35	29	25	25	25	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	46678	46678	46678
5°	46379	46235	46377
10°	46054	45828	46134
15°	45539	45340	45815
20°	44857	44744	45349
25°	43944	43999	44876
30°	42682	43191	44401
35°	41153	42333	43991
40°	39317	41340	43588
45°	37152	40262	43072
50°	34783	39172	42447
55°	31872	37837	41390
60°	28890	36265	39280
65°	25635	34256	35813
70°	22106	31697	32058
75°	18534	28739	29521
80°	14052	26601	29287
85°	8890	27649	32728



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2796.7	3.2
10°-20°	8023.4	9.1
20°-30°	12134.0	13.7
30°-40°	14567.0	16.5
40°-50°	15045.3	17.0
50°-60°	13536.1	15.3
60°-70°	10196.5	11.5
70°-80°	6157.0	7.0
80°-90°	3011.3	3.4
90°-100°	1267.5	1.4
100°-110°	723.5	0.8
110°-120°	424.7	0.5
120°-130°	240.2	0.3
130°-140°	126.5	0.1
140°-150°	61.5	0.1
150°-160°	22.9	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	22954.1	26.0
0°-40°	37521.1	42.5
0°-60°	66102.4	74.8
0°-90°	85467.2	96.8
90°-120°	2415.8	2.7
90°-150°	2843.9	3.2
90°-180°	2867.0	3.2
0°-180°	88334.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	29515	29515	29515	29515	29515	
5°	29327	29407	29371	29486	29450	###
15°	28143	28280	28410	28648	28677	7934
25°	25701	25983	26351	26763	26828	11822
35°	21974	22487	23411	24119	24264	13737
45°	17344	18218	19742	20818	21042	13390
55°	12287	13558	15617	16795	16997	11016
65°	7498	9029	11052	11601	11471	7449
75°	3532	5071	6400	6566	6501	3768
85°	737	1943	3207	3648	3713	851
90°	0	758	1835	2312	2405	47
95°	36	513	1372	1748	1813	30
105°	51	296	795	1040	1084	51
115°	58	166	491	657	686	59
125°	58	80	296	426	448	52
135°	51	65	152	260	289	40
145°	72	65	72	130	152	43
155°	72	80	72	65	72	22
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	29515.2	29515.2	29515.2	29515.2	29515.2
2.5°	29428.5	29500.8	29457.4	29551.3	29544.1
5°	29327.4	29406.8	29370.7	29486.3	29450.2
7.5°	29154.0	29240.7	29233.5	29363.5	29349.1
10°	28901.2	28995.1	29024.0	29197.4	29197.4
12.5°	28554.5	28677.3	28749.5	28959.0	28966.2
15°	28142.7	28280.0	28410.0	28648.4	28677.3
17.5°	27644.3	27817.7	27998.3	28272.8	28308.9
20°	27080.9	27275.9	27521.5	27810.5	27853.8
22.5°	26430.8	26661.9	26979.8	27319.3	27369.8
25°	25701.2	25982.9	26351.3	26763.0	26828.1
27.5°	24870.5	25195.6	25694.0	26156.3	26214.1
30°	23967.6	24350.4	24971.6	25520.6	25614.5
32.5°	23014.1	23454.7	24220.4	24834.4	24964.4
35°	21973.9	22486.7	23411.3	24119.2	24263.7
37.5°	20948.1	21511.6	22559.0	23368.0	23541.4
40°	19749.0	20449.7	21648.8	22544.5	22754.0
42.5°	18622.2	19380.6	20738.7	21713.8	21916.1
45°	17343.6	18217.7	19741.8	20818.1	21042.0
47.5°	16144.5	17090.8	18781.1	19893.5	20124.7
50°	14880.4	15920.6	17755.4	18918.3	19156.7
52.5°	13616.3	14735.9	16693.5	17899.8	18123.7
55°	12287.2	13558.5	15617.2	16794.6	16996.9
57.5°	11051.9	12395.5	14512.0	15631.6	15754.4
60°	9831.2	11225.3	13385.1	14367.5	14410.9
62.5°	8639.3	10105.7	12229.4	13009.5	12951.7
65°	7498.0	9029.4	11051.9	11600.9	11470.9
67.5°	6400.0	7982.0	9845.6	10199.6	10026.2
70°	5359.8	6963.4	8675.4	8856.0	8697.1
72.5°	4442.4	5995.5	7490.8	7642.5	7526.9
75°	3532.3	5070.9	6400.0	6566.2	6501.1
77.5°	2679.9	4175.2	5396.0	5612.7	5627.1
80°	1928.7	3358.9	4521.9	4861.4	4904.8
82.5°	1271.3	2607.7	3792.3	4225.7	4290.8
85°	736.8	1943.1	3207.2	3647.9	3712.9
87.5°	317.8	1401.4	2578.8	2976.1	3055.5
90°	0.0	758.5	1834.8	2311.5	2405.4
92.5°	21.7	628.4	1574.7	2008.1	2087.6
95°	36.1	512.9	1372.5	1748.1	1813.1
97.5°	43.3	433.4	1191.9	1524.2	1589.2
100°	43.3	375.6	1033.0	1336.3	1394.1
102.5°	43.3	332.3	902.9	1170.2	1220.8
105°	50.6	296.2	794.6	1040.2	1083.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	57.8	195.0	549.0	736.8	765.7
115°	57.8	166.1	491.2	657.3	686.2
117.5°	65.0	144.5	433.4	592.3	614.0
120°	65.0	122.8	382.8	527.3	556.2
122.5°	65.0	101.1	339.5	476.8	498.4
125°	57.8	79.5	296.2	426.2	447.9
127.5°	50.6	65.0	252.8	382.8	404.5
130°	50.6	57.8	216.7	339.5	361.2
132.5°	50.6	65.0	180.6	296.2	325.1
135°	50.6	65.0	151.7	260.0	288.9
137.5°	50.6	65.0	122.8	223.9	252.8
140°	57.8	65.0	101.1	187.8	216.7
142.5°	65.0	65.0	79.5	158.9	180.6
145°	72.2	65.0	72.2	130.0	151.7
147.5°	72.2	72.2	72.2	101.1	122.8
150°	72.2	79.5	72.2	79.5	101.1
152.5°	72.2	79.5	72.2	65.0	79.5
155°	72.2	79.5	72.2	65.0	72.2
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°	50.6	260.0	700.7	924.6	960.7
110°	50.6	231.2	621.2	823.5	859.6



(END OF REPORT)