

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: P830840

Luminaire Tested: **OHBL-90SE-MFL-UNV-L835-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830840
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-90SE-MFL-UNV-L835-CD
Description: 90000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 3500K LEDS AND MEDIUM FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

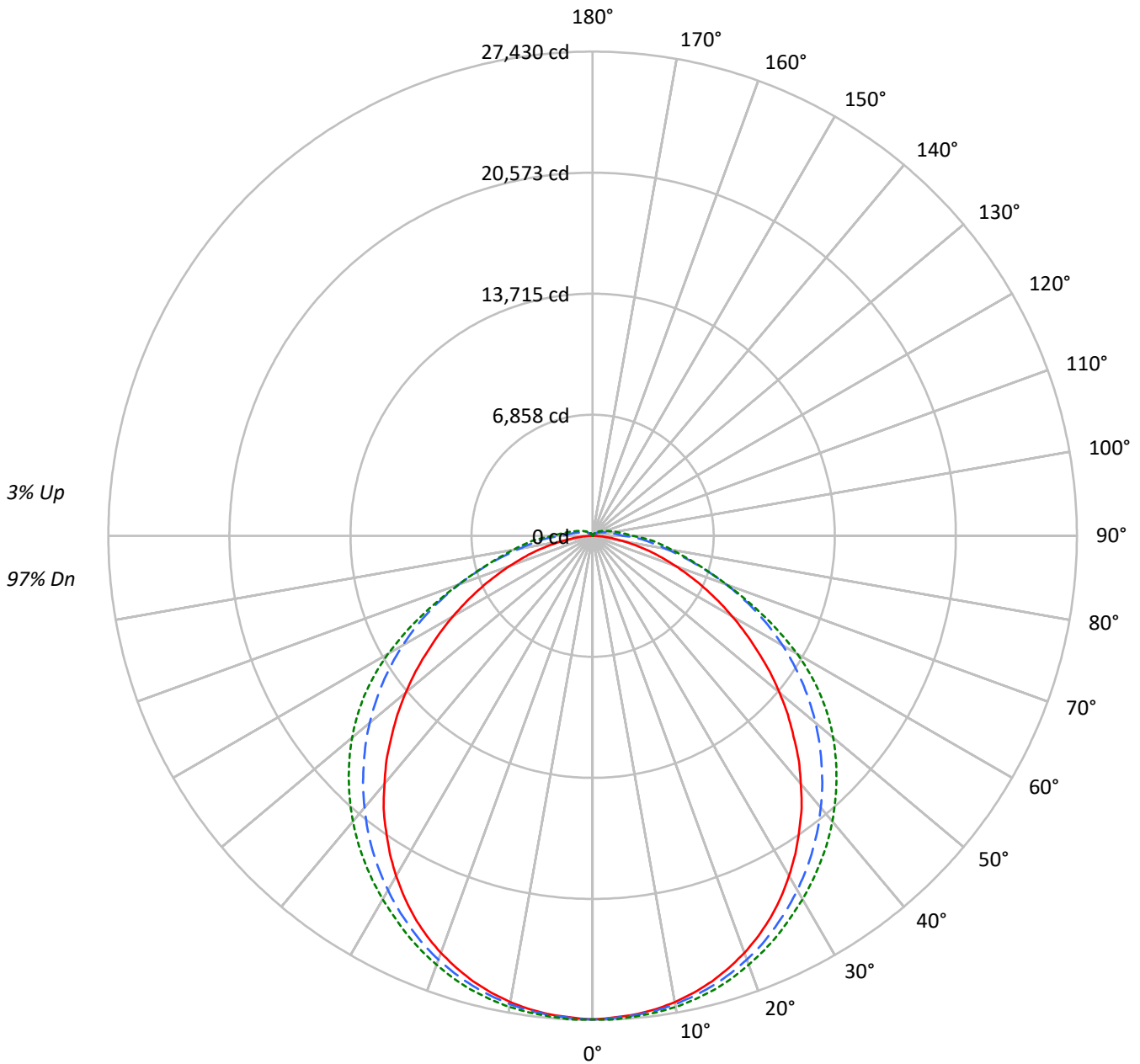
Lumens per Lamp: N/A
Luminaire Lumens: 82012.0 lumens
Efficiency: N/A
Efficacy: 155.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 529
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°	43337	43337	43337
5°	43059	42926	43058
10°	42758	42548	42832
15°	42280	42095	42536
20°	41646	41541	42103
25°	40799	40850	41664
30°	39627	40100	41224
35°	38208	39304	40843
40°	36503	38382	40468
45°	34493	37380	39990
50°	32294	36368	39409
55°	29591	35129	38427
60°	26822	33670	36469
65°	23800	31805	33249
70°	20524	29428	29763
75°	17208	26682	27408
80°	13046	24697	27191
85°	8254	25670	30385



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2596.6	3.2
10°-20°	7449.2	9.1
20°-30°	11265.6	13.7
30°-40°	13524.4	16.5
40°-50°	13968.5	17.0
50°-60°	12567.3	15.3
60°-70°	9466.8	11.5
70°-80°	5716.4	7.0
80°-90°	2795.8	3.4
90°-100°	1176.8	1.4
100°-110°	671.7	0.8
110°-120°	394.3	0.5
120°-130°	223.0	0.3
130°-140°	117.4	0.1
140°-150°	57.1	0.1
150°-160°	21.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	21311.3	26.0
0°-40°	34835.7	42.5
0°-60°	61371.5	74.8
0°-90°	79350.4	96.8
90°-120°	2242.9	2.7
90°-150°	2640.4	3.2
90°-180°	2662.0	3.2
0°-180°	82012.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	27403	27403	27403	27403	27403	
5°	27228	27302	27269	27376	27342	###
15°	26129	26256	26377	26598	26625	7367
25°	23862	24123	24465	24848	24908	10976
35°	20401	20877	21736	22393	22527	12754
45°	16102	16914	18329	19328	19536	12431
55°	11408	12588	14500	15593	15780	10228
65°	6961	8383	10261	10771	10650	6916
75°	3280	4708	5942	6096	6036	3499
85°	684	1804	2978	3387	3447	790
90°	0	704	1704	2146	2233	43
95°	34	476	1274	1623	1683	28
105°	47	275	738	966	1006	47
115°	54	154	456	610	637	55
125°	54	74	275	396	416	48
135°	47	60	141	241	268	37
145°	67	60	67	121	141	40
155°	67	74	67	60	67	21
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°	27402.8	27402.8	27402.8	27402.8	27402.8
2.5°	27322.3	27389.4	27349.2	27436.4	27429.6
5°	27228.4	27302.2	27268.7	27376.0	27342.5
7.5°	27067.5	27148.0	27141.3	27262.0	27248.6
10°	26832.8	26919.9	26946.8	27107.7	27107.7
12.5°	26510.9	26624.9	26691.9	26886.4	26893.1
15°	26128.6	26256.0	26376.7	26598.0	26624.9
17.5°	25665.8	25826.8	25994.5	26249.3	26282.8
20°	25142.7	25323.8	25551.8	25820.1	25860.3
22.5°	24539.1	24753.7	25048.8	25364.0	25411.0
25°	23861.8	24123.3	24465.4	24847.6	24908.0
27.5°	23090.5	23392.3	23855.1	24284.3	24337.9
30°	22252.2	22607.7	23184.4	23694.1	23781.3
32.5°	21367.0	21776.1	22486.9	23057.0	23177.7
35°	20401.2	20877.4	21735.8	22393.1	22527.2
37.5°	19448.9	19972.0	20944.4	21695.6	21856.5
40°	18335.6	18986.1	20099.4	20931.0	21125.5
42.5°	17289.4	17993.6	19254.4	20159.8	20347.6
45°	16102.3	16913.8	18328.9	19328.2	19536.1
47.5°	14989.1	15867.6	17436.9	18469.7	18684.3
50°	13815.4	14781.2	16484.6	17564.4	17785.7
52.5°	12641.8	13681.3	15498.8	16618.7	16826.6
55°	11407.8	12588.1	14499.5	15592.6	15780.4
57.5°	10261.0	11508.4	13473.4	14512.9	14626.9
60°	9127.6	10421.9	12427.2	13339.3	13379.5
62.5°	8021.0	9382.4	11354.1	12078.4	12024.8
65°	6961.4	8383.1	10261.0	10770.7	10649.9
67.5°	5942.0	7410.7	9141.0	9469.6	9308.6
70°	4976.2	6465.1	8054.5	8222.2	8074.6
72.5°	4124.5	5566.4	6954.7	7095.5	6988.2
75°	3279.5	4708.0	5942.0	6096.2	6035.9
77.5°	2488.1	3876.4	5009.8	5211.0	5224.4
80°	1790.6	3118.5	4198.3	4513.5	4553.7
82.5°	1180.3	2421.1	3520.9	3923.3	3983.7
85°	684.1	1804.1	2977.7	3386.8	3447.1
87.5°	295.1	1301.1	2394.2	2763.1	2836.9
90°	0.0	704.2	1703.5	2146.1	2233.3
92.5°	20.1	583.5	1462.0	1864.4	1938.2
95°	33.5	476.2	1274.2	1623.0	1683.3
97.5°	40.2	402.4	1106.6	1415.1	1475.4
100°	40.2	348.7	959.0	1240.7	1294.4
102.5°	40.2	308.5	838.3	1086.5	1133.4
105°	46.9	275.0	737.7	965.7	1006.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	53.7	181.1	509.7	684.1	710.9
115°	53.7	154.2	456.0	610.3	637.1
117.5°	60.4	134.1	402.4	549.9	570.1
120°	60.4	114.0	355.4	489.6	516.4
122.5°	60.4	93.9	315.2	442.6	462.7
125°	53.7	73.8	275.0	395.7	415.8
127.5°	46.9	60.4	234.7	355.4	375.6
130°	46.9	53.7	201.2	315.2	335.3
132.5°	46.9	60.4	167.7	275.0	301.8
135°	46.9	60.4	140.8	241.4	268.3
137.5°	46.9	60.4	114.0	207.9	234.7
140°	53.7	60.4	93.9	174.4	201.2
142.5°	60.4	60.4	73.8	147.5	167.7
145°	67.1	60.4	67.1	120.7	140.8
147.5°	67.1	67.1	67.1	93.9	114.0
150°	67.1	73.8	67.1	73.8	93.9
152.5°	67.1	73.8	67.1	60.4	73.8
155°	67.1	73.8	67.1	60.4	67.1
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°	46.9	241.4	650.5	858.4	892.0
110°	46.9	214.6	576.8	764.5	798.1



(END OF REPORT)