

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: P829700

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

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P829700
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-100SE-N-UNV-L835-CD
Description: 100000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 3500K LEDS AND NARROW LENS
Light Source: -
Ballast/Driver: -

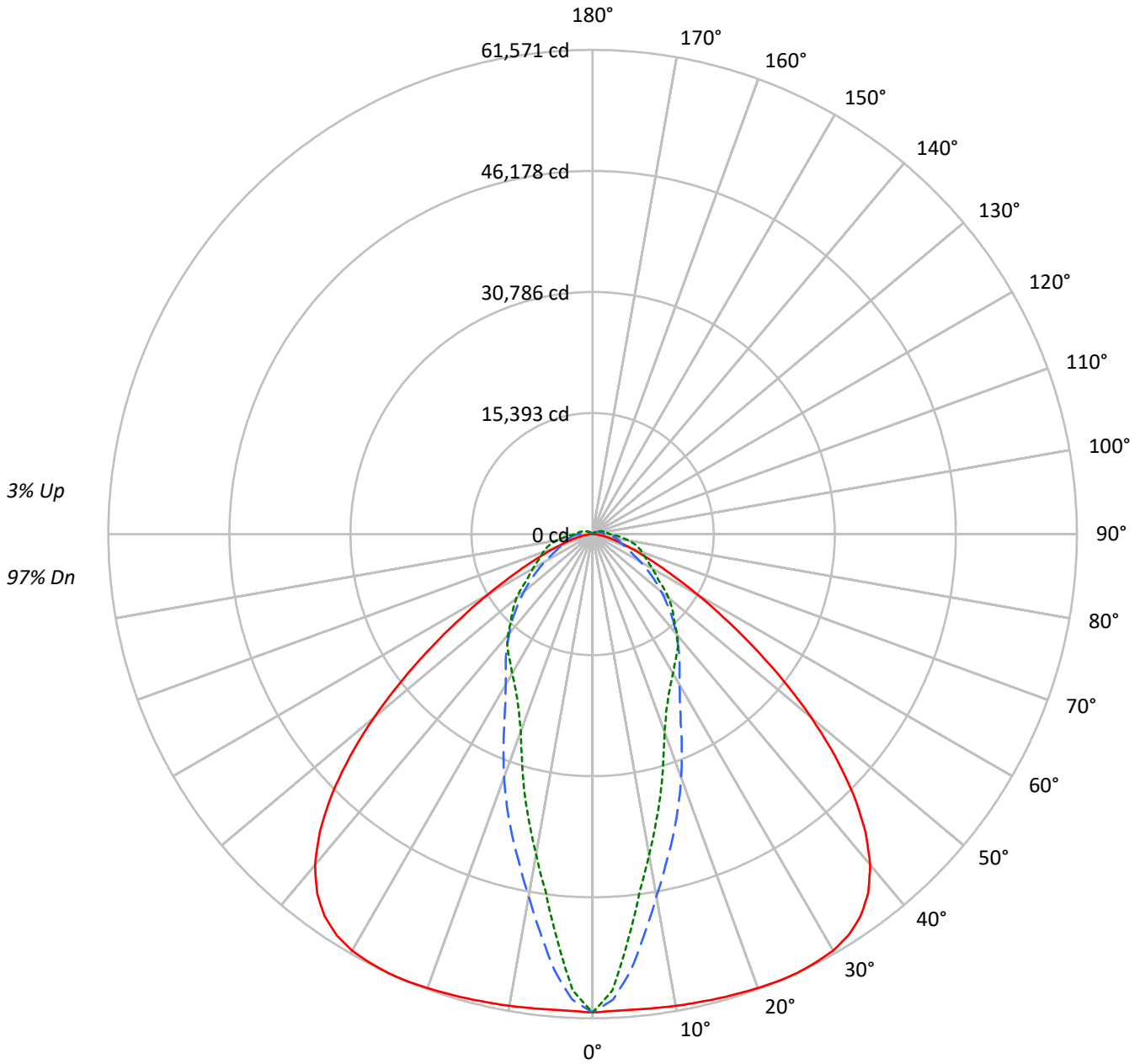
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 89770.0 lumens
Efficiency: N/A
Efficacy: 152.1 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	97																	
1	109	104	100	97	106	102	98	95	97	94	91	92	90	88	88	86	85	85	85	82																	
2	100	93	86	81	97	90	85	80	86	82	78	83	79	75	79	76	73	73	73	71																	
3	92	83	75	69	90	81	74	69	78	72	67	74	70	65	72	67	64	64	64	62																	
4	85	74	66	60	83	73	66	60	70	64	59	67	62	57	65	60	56	56	56	54																	
5	79	67	59	53	77	66	59	53	64	57	52	62	56	51	59	54	50	50	50	48																	
6	74	62	53	47	72	60	53	47	58	52	46	56	50	46	55	49	45	45	45	43																	
7	69	56	48	43	67	55	48	42	54	47	42	52	46	41	50	45	41	41	41	39																	
8	65	52	44	39	63	51	44	39	50	43	38	48	42	38	47	41	37	37	37	35																	
9	61	48	41	35	59	47	40	35	46	40	35	45	39	35	44	38	34	34	34	32																	
10	57	45	37	33	56	44	37	32	43	37	32	42	36	32	41	35	32	32	32	30																	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	96192	96192	96192
5°	95996	87639	81498
10°	97079	73855	65391
15°	98975	63193	53706
20°	101755	53457	43467
25°	105275	44269	38113
30°	108913	38158	35433
35°	111180	34795	33785
40°	109277	31450	32081
45°	100530	28441	29731
50°	84817	25147	27937
55°	64448	22047	24895
60°	45164	18931	23874
65°	30380	16328	23423
70°	20748	15355	24646
75°	14397	15883	26444
80°	9912	17674	27411
85°	5797	22307	29137



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5120.1	5.7
10°-20°	12044.7	13.4
20°-30°	15097.9	16.8
30°-40°	16020.6	17.8
40°-50°	14485.2	16.1
50°-60°	10502.7	11.7
60°-70°	6591.0	7.3
70°-80°	4361.7	4.9
80°-90°	2512.8	2.8
90°-100°	1217.4	1.4
100°-110°	840.2	0.9
110°-120°	518.5	0.6
120°-130°	251.1	0.3
130°-140°	115.5	0.1
140°-150°	63.1	0.1
150°-160°	27.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
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0°-30°	32262.8	35.9
0°-40°	48283.4	53.8
0°-60°	73271.3	81.6
0°-90°	86736.7	96.6
90°-120°	2576.1	2.9
90°-150°	3005.8	3.3
90°-180°	3033.0	3.4
0°-180°	89770.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	60824	60824	60824	60824	60824	
5°	60702	59145	55672	53090	51753	###
15°	61166	49854	39596	35214	33616	17346
25°	61571	38548	26513	23532	22785	28445
35°	59365	25628	19242	18640	18634	36904
45°	46931	16232	13946	14281	14524	35752
55°	24846	10061	9100	9870	10223	22449
65°	8886	5835	5268	6750	7502	9247
75°	2744	3143	3537	5494	5824	3059
85°	480	1302	2588	3601	3306	576
90°	0	544	1499	2113	2130	31
95°	23	382	1320	1795	1876	20
105°	46	255	961	1274	1308	47
115°	64	180	648	810	828	62
125°	70	93	330	417	411	60
135°	58	70	145	226	226	45
145°	70	75	87	133	127	42
155°	70	87	93	98	87	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°	60824.0	60824.0	60824.0	60824.0	60824.0
2.5°	60696.6	60349.3	59266.7	58606.8	58051.1
5°	60702.4	59145.2	55671.8	53090.0	51752.8
7.5°	60789.2	57327.5	51069.7	47301.1	45830.7
10°	60922.4	55075.6	46774.3	42756.8	41384.8
12.5°	61020.8	52540.0	42994.2	38866.7	37361.6
15°	61165.5	49854.0	39596.1	35213.9	33616.1
17.5°	61298.7	47324.2	36238.5	31659.5	29882.3
20°	61431.8	44597.7	32880.9	28163.0	26698.4
22.5°	61559.2	41720.6	29604.4	25448.0	24446.5
25°	61570.7	38548.3	26513.2	23531.9	22785.1
27.5°	61420.2	35260.2	24006.6	21928.3	21465.2
30°	61159.7	32070.5	22061.5	20770.6	20440.6
32.5°	60511.4	28817.1	20556.4	19653.3	19462.3
35°	59365.2	25627.5	19242.3	18640.3	18634.5
37.5°	57559.0	22796.7	17818.2	17714.0	17841.4
40°	54890.3	20319.0	16469.4	16747.3	16747.3
42.5°	51330.2	18165.6	15248.0	15531.6	15456.4
45°	46930.6	16232.1	13945.5	14281.2	14524.3
47.5°	41830.6	14530.1	12614.0	13262.4	13598.1
50°	36284.8	12909.2	11398.3	12226.2	12608.2
52.5°	30472.8	11409.9	10211.6	11161.0	11467.8
55°	24846.0	10061.1	9100.1	9870.1	10223.2
57.5°	19751.7	8776.0	8011.8	8741.2	9470.6
60°	15369.5	7670.3	6987.2	8029.2	8758.6
62.5°	11739.9	6686.2	6026.2	7363.5	8092.9
65°	8886.0	5835.2	5267.9	6749.9	7502.4
67.5°	6697.8	5100.0	4677.4	6304.1	7039.3
70°	5030.6	4388.0	4202.7	6026.2	6686.2
72.5°	3716.5	3733.8	3826.5	5783.1	6286.7
75°	2743.9	3143.4	3537.0	5493.7	5823.6
77.5°	1962.4	2605.0	3276.5	5146.3	5262.1
80°	1360.4	2124.5	3004.4	4689.0	4590.6
82.5°	851.0	1701.9	2761.3	4185.4	3913.3
85°	480.5	1302.5	2587.6	3600.7	3305.5
87.5°	214.2	972.5	2263.5	2807.6	2622.4
90°	0.0	544.2	1499.3	2112.9	2130.3
92.5°	11.6	451.5	1383.5	1933.5	1991.4
95°	23.2	382.1	1319.9	1794.6	1875.6
97.5°	28.9	335.8	1238.8	1667.2	1736.7
100°	34.7	301.0	1140.4	1534.1	1591.9
102.5°	40.5	277.9	1047.8	1395.1	1441.4
105°	46.3	254.7	961.0	1273.6	1308.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	57.9	196.8	723.6	914.6	943.6
115°	63.7	179.5	648.4	810.4	827.8
117.5°	69.5	156.3	567.3	712.0	717.8
120°	69.5	138.9	486.3	607.8	607.8
122.5°	69.5	115.8	405.2	503.6	497.8
125°	69.5	92.6	330.0	416.8	411.0
127.5°	63.7	75.3	266.3	347.3	341.5
130°	63.7	75.3	214.2	295.2	295.2
132.5°	57.9	69.5	173.7	254.7	254.7
135°	57.9	69.5	144.7	225.8	225.8
137.5°	57.9	75.3	121.6	196.8	196.8
140°	57.9	69.5	104.2	173.7	173.7
142.5°	63.7	69.5	92.6	150.5	150.5
145°	69.5	75.3	86.8	133.1	127.4
147.5°	69.5	81.0	86.8	115.8	110.0
150°	69.5	86.8	86.8	104.2	98.4
152.5°	69.5	86.8	86.8	98.4	92.6
155°	69.5	86.8	92.6	98.4	86.8
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°	46.3	237.3	879.9	1140.4	1180.9
110°	52.1	214.2	804.7	1018.8	1059.4



(END OF REPORT)