

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: P830816

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830816
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-90SE-A-UNV-L835-CD
Description: 90000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 3500K LEDS AND AISLE LENS
Light Source: -
Ballast/Driver: -

Summary

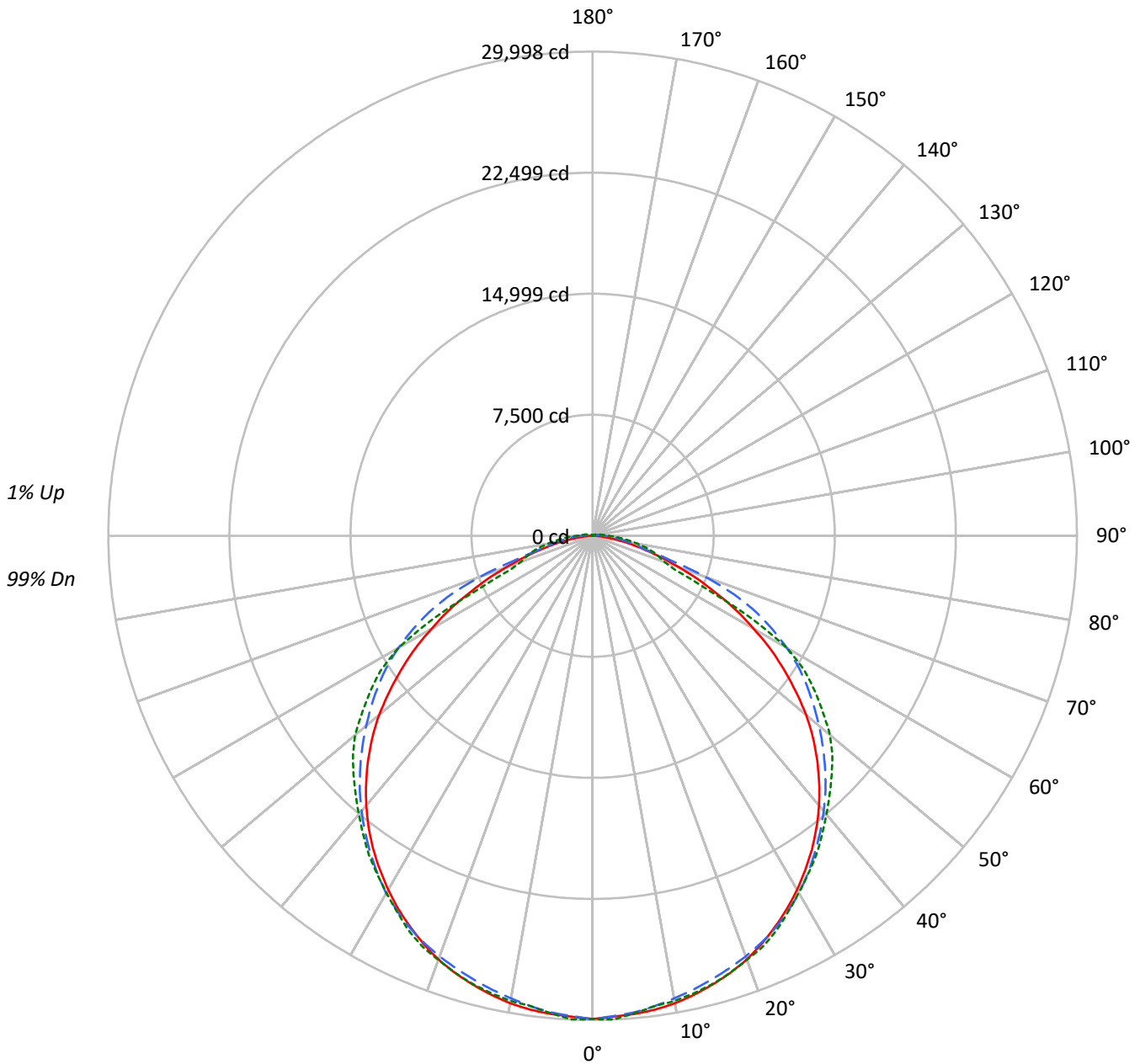
Lumens per Lamp: N/A
Luminaire Lumens: 84616.0 lumens
Efficiency: N/A
Efficacy: 160.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 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

TEST NUMBER: P830816

CATALOG NUMBER: OHBL-90SE-A-UNV-L835-CD

Luminous Intensity Polar Plot





TEST NUMBER: P830816

CATALOG NUMBER: OHBL-90SE-A-UNV-L835-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	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°	47345	47345	47345
5°	47035	46657	46755
10°	46863	45951	46236
15°	46566	45422	45926
20°	46268	45089	45520
25°	45710	44753	45117
30°	45103	44225	44263
35°	44377	43387	43793
40°	43433	42520	43152
45°	42125	41518	42868
50°	40352	40377	42528
55°	37536	39254	40941
60°	33848	37612	37851
65°	29036	34563	23988
70°	23388	26981	17392
75°	17534	16017	17651
80°	12205	13318	16852
85°	6946	12203	15797



TEST NUMBER: P830816

CATALOG NUMBER: OHBL-90SE-A-UNV-L835-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2822.8	3.3
10°-20°	8094.5	9.6
20°-30°	12362.8	14.6
30°-40°	15000.3	17.7
40°-50°	15721.8	18.6
50°-60°	14246.3	16.8
60°-70°	9551.6	11.3
70°-80°	4289.1	5.1
80°-90°	1556.4	1.8
90°-100°	468.5	0.6
100°-110°	221.1	0.3
110°-120°	110.8	0.1
120°-130°	61.1	0.1
130°-140°	42.0	0.0
140°-150°	28.3	0.0
150°-160°	21.0	0.0
160°-170°	13.5	0.0
170°-180°	4.3	0.0
0°-30°	23280.1	27.5
0°-40°	38280.4	45.2
0°-60°	68248.4	80.7
0°-90°	83645.5	98.9
90°-120°	800.3	0.9
90°-150°	931.7	1.1
90°-180°	971.0	1.1
0°-180°	84616.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	29937	29937	29937	29937	29937	
5°	29742	29846	29638	29729	29690	###
15°	28777	28665	28461	28712	28747	8125
25°	26734	26617	26803	27050	26972	12323
35°	23695	23752	23994	24249	24154	14810
45°	19665	19986	20358	20877	20942	15149
55°	14471	15168	16202	16852	16813	12917
65°	8493	9822	11151	9411	7683	8462
75°	3342	4848	3567	3649	3887	3652
85°	576	1104	1416	1710	1792	703
90°	4	368	732	918	961	34
95°	4	229	502	610	628	6
105°	17	100	247	299	312	20
115°	35	52	126	160	169	32
125°	30	35	78	91	95	30
135°	39	43	48	69	74	31
145°	39	43	43	48	52	26
155°	43	48	48	48	43	20
165°	48	48	48	48	48	13
175°	48	48	43	39	39	5
180°	43	43	43	43	43	



TEST NUMBER: P830816

CATALOG NUMBER: OHBL-90SE-A-UNV-L835-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	29937.2	29937.2	29937.2	29937.2	29937.2
2.5°	29816.0	29941.5	29785.7	29954.5	29997.8
5°	29742.4	29846.3	29638.5	29729.4	29690.5
7.5°	29608.2	29642.9	29396.1	29469.7	29391.8
10°	29409.1	29391.8	29101.8	29244.6	29261.9
12.5°	29114.8	29062.8	28803.1	29019.5	29023.9
15°	28777.1	28664.6	28461.1	28712.2	28746.8
17.5°	28387.5	28240.4	28106.2	28430.8	28378.9
20°	27933.0	27759.9	27733.9	28088.9	27959.0
22.5°	27370.3	27236.1	27296.7	27634.3	27552.1
25°	26734.0	26617.1	26803.2	27050.0	26972.1
27.5°	26063.0	25993.8	26205.9	26396.3	26244.8
30°	25327.2	25288.2	25569.6	25725.4	25534.9
32.5°	24526.4	24539.3	24807.7	25019.8	24842.3
35°	23695.2	23751.5	23993.9	24249.3	24154.1
37.5°	22781.9	22907.4	23149.8	23439.9	23340.3
40°	21816.6	21998.4	22266.8	22617.4	22526.5
42.5°	20773.4	21002.8	21349.1	21738.7	21730.0
45°	19665.2	19985.6	20357.8	20877.3	20942.2
47.5°	18513.8	18873.1	19344.9	20037.5	20137.1
50°	17262.8	17713.0	18301.7	19132.8	19193.4
52.5°	15869.0	16483.6	17262.8	18059.3	17985.7
55°	14470.8	15167.7	16202.3	16851.6	16812.6
57.5°	13077.0	13860.5	15115.8	15579.0	15574.6
60°	11518.6	12509.9	13882.1	14232.7	13886.4
62.5°	10077.2	11142.0	12566.2	12310.8	11124.7
65°	8492.9	9821.8	11150.7	9410.6	7683.4
67.5°	7086.1	8471.2	9471.2	6445.4	5519.1
70°	5670.6	7198.6	7384.7	4783.2	4718.3
72.5°	4415.3	6042.8	5094.9	4094.9	4302.7
75°	3341.7	4848.1	3566.8	3649.1	3887.2
77.5°	2437.1	3722.7	2774.7	3198.9	3393.7
80°	1675.2	2636.2	2263.9	2688.1	2822.3
82.5°	1051.9	1740.1	1813.7	2164.3	2302.9
85°	575.7	1103.8	1415.5	1709.8	1792.1
87.5°	238.1	666.6	1082.2	1320.3	1389.5
90°	4.3	367.9	731.5	917.7	961.0
92.5°	4.3	281.4	597.4	740.2	770.5
95°	4.3	229.4	502.1	610.3	627.7
97.5°	8.7	181.8	419.9	506.5	523.8
100°	13.0	151.5	350.6	424.2	437.2
102.5°	17.3	121.2	294.4	355.0	367.9
105°	17.3	99.6	246.7	298.7	311.7



TEST NUMBER: P830816

CATALOG NUMBER: OHBL-90SE-A-UNV-L835-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	30.3	60.6	147.2	186.1	194.8
115°	34.6	51.9	125.5	160.2	168.8
117.5°	34.6	43.3	108.2	134.2	142.8
120°	34.6	39.0	95.2	116.9	121.2
122.5°	34.6	34.6	82.2	103.9	108.2
125°	30.3	34.6	77.9	90.9	95.2
127.5°	34.6	34.6	69.3	82.2	86.6
130°	34.6	39.0	60.6	77.9	77.9
132.5°	39.0	43.3	56.3	73.6	73.6
135°	39.0	43.3	47.6	69.3	73.6
137.5°	43.3	43.3	43.3	64.9	69.3
140°	43.3	43.3	39.0	56.3	60.6
142.5°	39.0	43.3	39.0	51.9	56.3
145°	39.0	43.3	43.3	47.6	51.9
147.5°	43.3	43.3	43.3	43.3	47.6
150°	43.3	43.3	43.3	43.3	43.3
152.5°	43.3	43.3	43.3	43.3	43.3
155°	43.3	47.6	47.6	47.6	43.3
157.5°	43.3	47.6	47.6	47.6	47.6
160°	43.3	47.6	47.6	47.6	47.6
162.5°	47.6	47.6	47.6	47.6	47.6
165°	47.6	47.6	47.6	47.6	47.6
167.5°	47.6	51.9	47.6	47.6	47.6
170°	47.6	47.6	47.6	43.3	43.3
172.5°	47.6	47.6	47.6	43.3	43.3
175°	47.6	47.6	43.3	39.0	39.0
177.5°	51.9	47.6	43.3	39.0	34.6
180°	43.3	43.3	43.3	43.3	43.3



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	21.6	82.2	212.1	255.4	264.1
110°	26.0	69.3	177.5	216.4	225.1



(END OF REPORT)