

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: P830839

Luminaire Tested: **OHBL-90SE-MFL-UNV-L830-CD**

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P830839
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-L830-CD
Description: 90000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 3000K LEDS AND MEDIUM FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

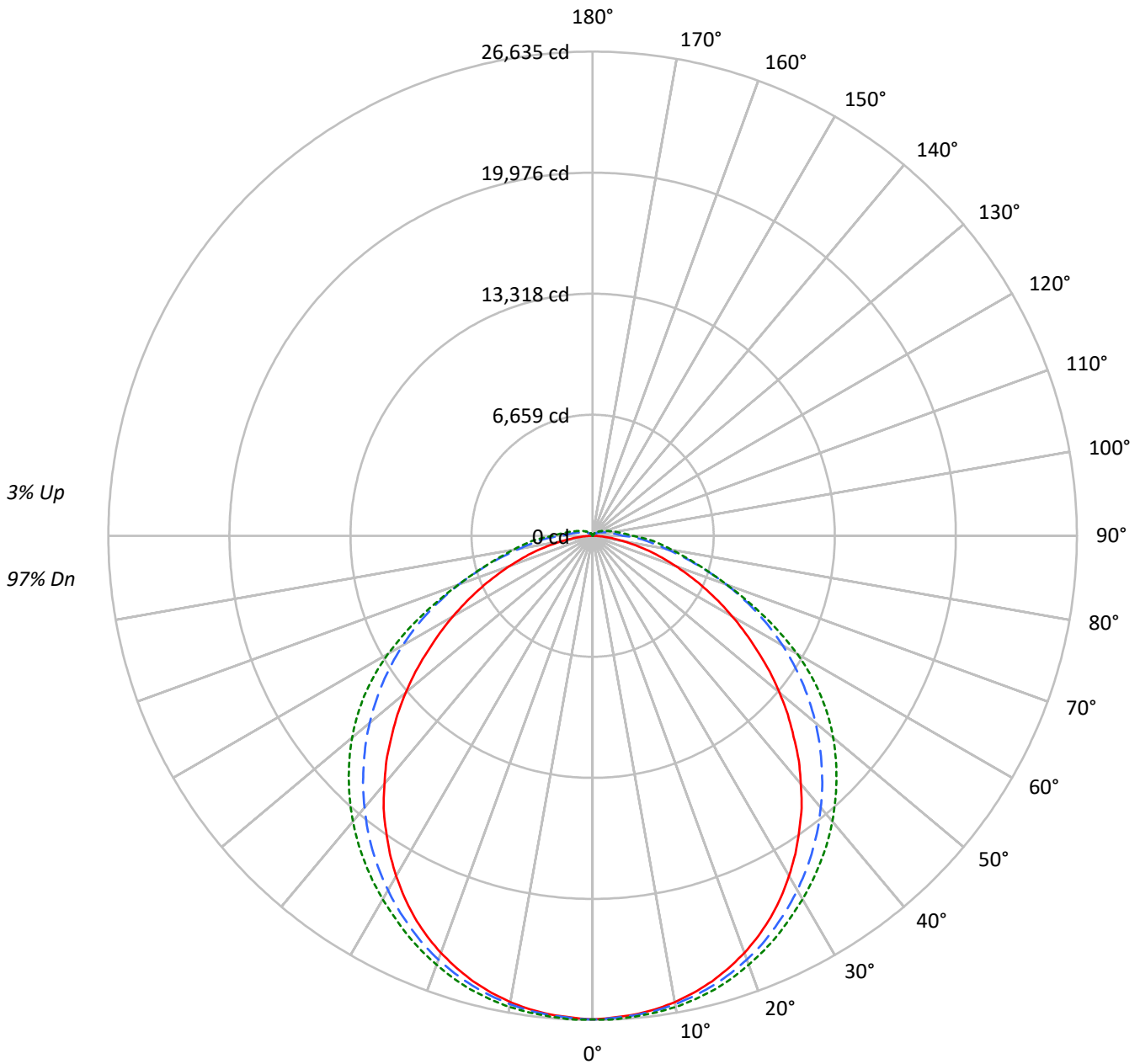
Lumens per Lamp: N/A
Luminaire Lumens: 79635.0 lumens
Efficiency: N/A
Efficacy: 150.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

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	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	99	99	97		
	1	107	102	98	94	104	100	96	92	95	91	88	90	88	85	86	84	82	82	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	68	68	66		
	3	89	78	70	63	86	76	69	62	73	66	61	70	64	59	67	62	58	58	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	50	50	47		
	5	75	62	53	46	72	60	52	46	58	50	45	56	49	44	53	48	43	43	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	38	38	36		
	7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	44	38	34	34	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	30	30	28		
	9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	37	32	27	27	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	25	25	23		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	42081	42081	42081
5°	41812	41682	41810
10°	41518	41315	41591
15°	41055	40875	41304
20°	40439	40337	40883
25°	39617	39666	40457
30°	38478	38938	40029
35°	37100	38164	39659
40°	35445	37269	39295
45°	33493	36297	38831
50°	31358	35314	38267
55°	28733	34111	37314
60°	26044	32694	35412
65°	23110	30883	32286
70°	19929	28575	28901
75°	16709	25909	26614
80°	12668	23981	26403
85°	8014	24926	29504



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2521.3	3.2
10°-20°	7233.3	9.1
20°-30°	10939.0	13.7
30°-40°	13132.4	16.5
40°-50°	13563.7	17.0
50°-60°	12203.1	15.3
60°-70°	9192.4	11.5
70°-80°	5550.7	7.0
80°-90°	2714.7	3.4
90°-100°	1142.7	1.4
100°-110°	652.3	0.8
110°-120°	382.9	0.5
120°-130°	216.6	0.3
130°-140°	114.0	0.1
140°-150°	55.4	0.1
150°-160°	20.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	20693.6	26.0
0°-40°	33826.0	42.5
0°-60°	59592.8	74.8
0°-90°	77050.5	96.8
90°-120°	2177.8	2.7
90°-150°	2563.9	3.2
90°-180°	2584.0	3.2
0°-180°	79635.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	26609	26609	26609	26609	26609	
5°	26439	26511	26478	26582	26550	###
15°	25371	25495	25612	25827	25853	7153
25°	23170	23424	23756	24128	24186	10658
35°	19810	20272	21106	21744	21874	12384
45°	15636	16424	17798	18768	18970	12071
55°	11077	12223	14079	15141	15323	9932
65°	6760	8140	9964	10458	10341	6716
75°	3184	4572	5770	5920	5861	3397
85°	664	1752	2891	3289	3347	767
90°	0	684	1654	2084	2168	42
95°	33	462	1237	1576	1634	27
105°	46	267	716	938	977	46
115°	52	150	443	593	619	53
125°	52	72	267	384	404	47
135°	46	59	137	234	260	36
145°	65	59	65	117	137	39
155°	65	72	65	59	65	20
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°	26608.6	26608.6	26608.6	26608.6	26608.6
2.5°	26530.4	26595.6	26556.5	26641.1	26634.6
5°	26439.3	26510.9	26478.3	26582.5	26550.0
7.5°	26283.0	26361.1	26354.6	26471.8	26458.8
10°	26055.1	26139.7	26165.8	26322.1	26322.1
12.5°	25742.5	25853.2	25918.3	26107.2	26113.7
15°	25371.3	25495.0	25612.2	25827.1	25853.2
17.5°	24921.9	25078.2	25241.0	25488.5	25521.1
20°	24414.0	24589.8	24811.2	25071.7	25110.8
22.5°	23827.9	24036.3	24322.8	24628.9	24674.5
25°	23170.2	23424.2	23756.3	24127.5	24186.1
27.5°	22421.3	22714.3	23163.7	23580.4	23632.5
30°	21607.3	21952.4	22512.5	23007.4	23092.0
32.5°	20747.7	21144.9	21835.2	22388.7	22505.9
35°	19809.9	20272.3	21105.8	21744.0	21874.3
37.5°	18885.2	19393.1	20337.4	21066.8	21223.1
40°	17804.2	18435.9	19516.9	20324.4	20513.2
42.5°	16788.3	17472.1	18696.3	19575.5	19757.8
45°	15635.6	16423.6	17797.7	18768.0	18969.9
47.5°	14554.6	15407.7	16931.6	17934.4	18142.8
50°	13415.0	14352.7	16006.8	17055.3	17270.2
52.5°	12275.4	13284.8	15049.5	16137.1	16338.9
55°	11077.1	12223.3	14079.2	15140.7	15323.1
57.5°	9963.6	11174.8	13082.9	14092.3	14203.0
60°	8863.0	10119.9	12067.0	12952.6	12991.7
62.5°	7788.5	9110.5	11025.0	11728.4	11676.3
65°	6759.6	8140.2	9963.6	10458.5	10341.3
67.5°	5769.8	7195.9	8876.0	9195.1	9038.8
70°	4832.0	6277.7	7821.1	7983.9	7840.6
72.5°	4005.0	5405.1	6753.1	6889.8	6785.6
75°	3184.4	4571.5	5769.8	5919.5	5860.9
77.5°	2416.0	3764.0	4864.6	5059.9	5073.0
80°	1738.7	3028.1	4076.6	4382.7	4421.7
82.5°	1146.1	2350.9	3418.9	3809.6	3868.2
85°	664.2	1751.8	2891.4	3288.6	3347.2
87.5°	286.5	1263.4	2324.8	2683.0	2754.6
90°	0.0	683.8	1654.1	2083.9	2168.5
92.5°	19.5	566.6	1419.6	1810.4	1882.0
95°	32.6	462.4	1237.3	1575.9	1634.5
97.5°	39.1	390.7	1074.5	1374.1	1432.7
100°	39.1	338.6	931.2	1204.7	1256.8
102.5°	39.1	299.6	814.0	1055.0	1100.6
105°	45.6	267.0	716.3	937.7	976.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	52.1	175.8	494.9	664.2	690.3
115°	52.1	149.8	442.8	592.6	618.7
117.5°	58.6	130.2	390.7	534.0	553.5
120°	58.6	110.7	345.1	475.4	501.4
122.5°	58.6	91.2	306.1	429.8	449.3
125°	52.1	71.6	267.0	384.2	403.8
127.5°	45.6	58.6	227.9	345.1	364.7
130°	45.6	52.1	195.4	306.1	325.6
132.5°	45.6	58.6	162.8	267.0	293.0
135°	45.6	58.6	136.8	234.4	260.5
137.5°	45.6	58.6	110.7	201.9	227.9
140°	52.1	58.6	91.2	169.3	195.4
142.5°	58.6	58.6	71.6	143.3	162.8
145°	65.1	58.6	65.1	117.2	136.8
147.5°	65.1	65.1	65.1	91.2	110.7
150°	65.1	71.6	65.1	71.6	91.2
152.5°	65.1	71.6	65.1	58.6	71.6
155°	65.1	71.6	65.1	58.6	65.1
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°	45.6	234.4	631.7	833.6	866.1
110°	45.6	208.4	560.0	742.4	774.9



(END OF REPORT)