

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: P830827

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830827
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-MCL-UNV-L830-CD
Description: 90000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 3000K LEDS AND MEDIUM CLEAR LENS
Light Source: -
Ballast/Driver: -

Summary

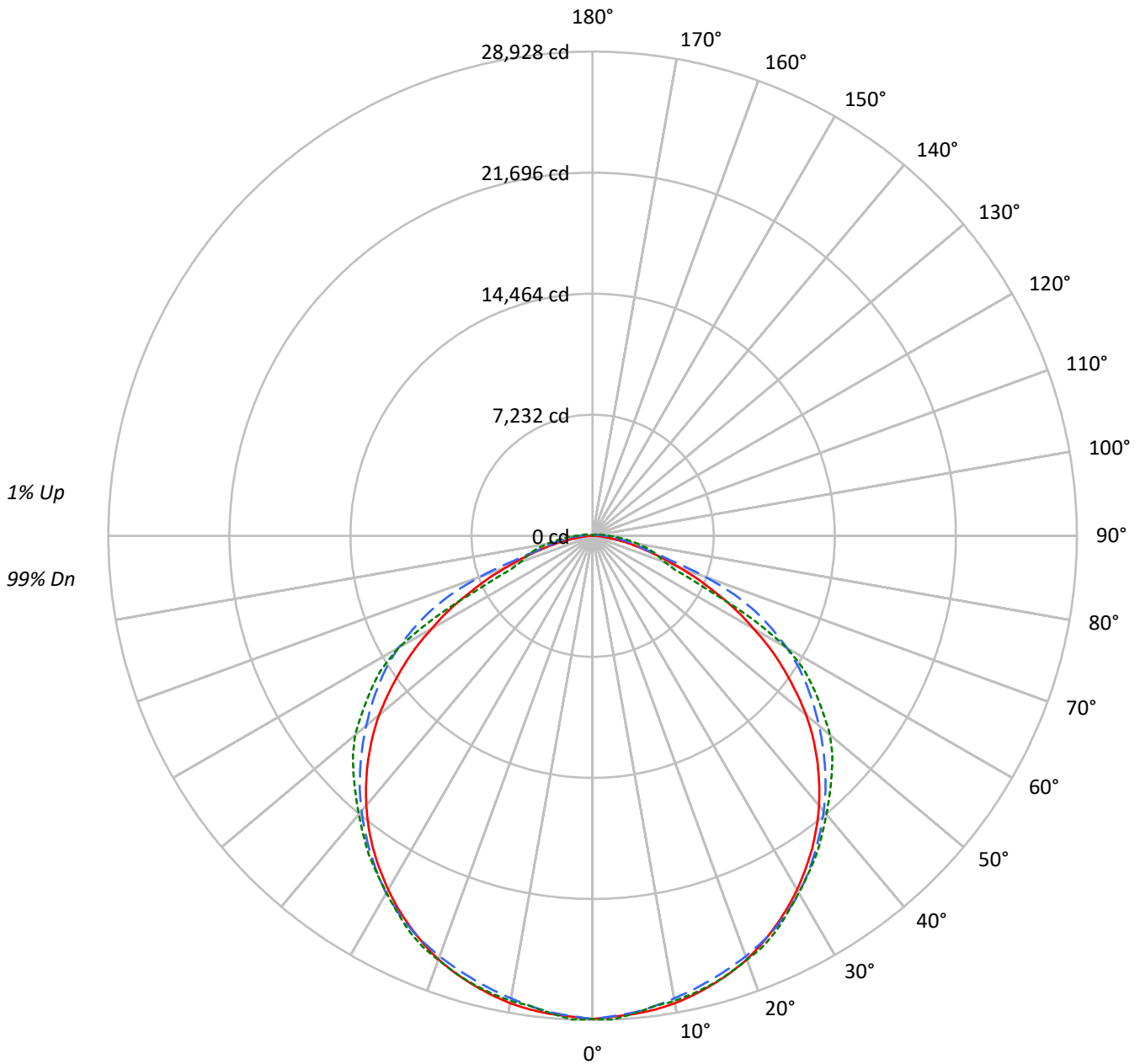
Lumens per Lamp: N/A
Luminaire Lumens: 81597.9 lumens
Efficiency: N/A
Efficacy: 154.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

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

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	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°	45656	45656	45656
5°	45358	44993	45088
10°	45192	44312	44587
15°	44905	43802	44288
20°	44618	43481	43896
25°	44080	43157	43508
30°	43494	42648	42685
35°	42794	41839	42231
40°	41884	41004	41613
45°	40622	40037	41339
50°	38913	38937	41011
55°	36197	37854	39481
60°	32641	36270	36500
65°	28000	33330	23132
70°	22553	26019	16771
75°	16909	15445	17022
80°	11770	12843	16251
85°	6699	11767	15233



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2722.1	3.3
10°-20°	7805.8	9.6
20°-30°	11921.9	14.6
30°-40°	14465.3	17.7
40°-50°	15161.0	18.6
50°-60°	13738.1	16.8
60°-70°	9210.9	11.3
70°-80°	4136.1	5.1
80°-90°	1500.9	1.8
90°-100°	451.8	0.6
100°-110°	213.2	0.3
110°-120°	106.8	0.1
120°-130°	58.9	0.1
130°-140°	40.5	0.0
140°-150°	27.2	0.0
150°-160°	20.2	0.0
160°-170°	13.0	0.0
170°-180°	4.1	0.0
0°-30°	22449.7	27.5
0°-40°	36915.0	45.2
0°-60°	65814.2	80.7
0°-90°	80662.1	98.9
90°-120°	771.8	0.9
90°-150°	898.5	1.1
90°-180°	936.0	1.1
0°-180°	81597.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	28869	28869	28869	28869	28869	
5°	28682	28782	28581	28669	28632	###
15°	27751	27642	27446	27688	27722	7835
25°	25780	25668	25847	26085	26010	11883
35°	22850	22904	23138	23384	23293	14282
45°	18964	19273	19632	20133	20195	14609
55°	13955	14627	15624	16250	16213	12456
65°	8190	9472	10753	9075	7409	8160
75°	3223	4675	3440	3519	3748	3522
85°	555	1064	1365	1649	1728	677
90°	4	355	706	885	927	33
95°	4	221	484	589	605	6
105°	17	96	238	288	300	19
115°	33	50	121	154	163	31
125°	29	33	75	88	92	29
135°	38	42	46	67	71	30
145°	38	42	42	46	50	25
155°	42	46	46	46	42	19
165°	46	46	46	46	46	13
175°	46	46	42	38	38	4
180°	42	42	42	42	42	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	28869.4	28869.4	28869.4	28869.4	28869.4
2.5°	28752.6	28873.6	28723.3	28886.1	28927.9
5°	28681.6	28781.8	28581.4	28669.1	28631.5
7.5°	28552.2	28585.6	28347.7	28418.6	28343.5
10°	28360.2	28343.5	28063.8	28201.6	28218.3
12.5°	28076.3	28026.2	27775.8	27984.5	27988.7
15°	27750.7	27642.2	27446.0	27688.1	27721.5
17.5°	27375.0	27233.1	27103.7	27416.8	27366.7
20°	26936.7	26769.8	26744.7	27087.0	26961.8
22.5°	26394.1	26264.7	26323.1	26648.7	26569.4
25°	25780.5	25667.8	25847.2	26085.2	26010.0
27.5°	25133.4	25066.7	25271.2	25454.9	25308.8
30°	24423.8	24386.2	24657.6	24807.8	24624.2
32.5°	23651.6	23664.1	23922.9	24127.4	23956.3
35°	22850.1	22904.4	23138.1	23384.4	23292.6
37.5°	21969.3	22090.4	22324.1	22603.8	22507.8
40°	21038.5	21213.8	21472.6	21810.7	21723.0
42.5°	20032.5	20253.7	20587.6	20963.3	20955.0
45°	18963.8	19272.7	19631.7	20132.6	20195.3
47.5°	17853.5	18199.9	18654.9	19322.8	19418.8
50°	16647.1	17081.2	17648.9	18450.4	18508.8
52.5°	15303.0	15895.7	16647.1	17415.2	17344.2
55°	13954.7	14626.7	15624.4	16250.5	16213.0
57.5°	12610.6	13366.1	14576.6	15023.3	15019.1
60°	11107.8	12063.7	13387.0	13725.1	13391.1
62.5°	9717.8	10744.6	12118.0	11871.7	10727.9
65°	8190.0	9471.5	10753.0	9074.9	7409.4
67.5°	6833.3	8169.1	9133.4	6215.5	5322.2
70°	5468.3	6941.9	7121.4	4612.6	4550.0
72.5°	4257.8	5827.3	4913.1	3948.9	4149.3
75°	3222.6	4675.2	3439.6	3518.9	3748.5
77.5°	2350.1	3589.9	2675.7	3084.8	3272.6
80°	1615.5	2542.1	2183.2	2592.2	2721.6
82.5°	1014.4	1678.1	1749.0	2087.1	2220.7
85°	555.2	1064.4	1365.0	1648.8	1728.2
87.5°	229.6	642.8	1043.6	1273.2	1339.9
90°	4.2	354.8	705.5	885.0	926.7
92.5°	4.2	271.3	576.1	713.8	743.0
95°	4.2	221.2	484.2	588.6	605.3
97.5°	8.3	175.3	404.9	488.4	505.1
100°	12.5	146.1	338.1	409.1	421.6
102.5°	16.7	116.9	283.9	342.3	354.8
105°	16.7	96.0	237.9	288.0	300.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	29.2	58.4	141.9	179.5	187.8
115°	33.4	50.1	121.1	154.4	162.8
117.5°	33.4	41.7	104.4	129.4	137.8
120°	33.4	37.6	91.8	112.7	116.9
122.5°	33.4	33.4	79.3	100.2	104.4
125°	29.2	33.4	75.1	87.7	91.8
127.5°	33.4	33.4	66.8	79.3	83.5
130°	33.4	37.6	58.4	75.1	75.1
132.5°	37.6	41.7	54.3	71.0	71.0
135°	37.6	41.7	45.9	66.8	71.0
137.5°	41.7	41.7	41.7	62.6	66.8
140°	41.7	41.7	37.6	54.3	58.4
142.5°	37.6	41.7	37.6	50.1	54.3
145°	37.6	41.7	41.7	45.9	50.1
147.5°	41.7	41.7	41.7	41.7	45.9
150°	41.7	41.7	41.7	41.7	41.7
152.5°	41.7	41.7	41.7	41.7	41.7
155°	41.7	45.9	45.9	45.9	41.7
157.5°	41.7	45.9	45.9	45.9	45.9
160°	41.7	45.9	45.9	45.9	45.9
162.5°	45.9	45.9	45.9	45.9	45.9
165°	45.9	45.9	45.9	45.9	45.9
167.5°	45.9	50.1	45.9	45.9	45.9
170°	45.9	45.9	45.9	41.7	41.7
172.5°	45.9	45.9	45.9	41.7	41.7
175°	45.9	45.9	41.7	37.6	37.6
177.5°	50.1	45.9	41.7	37.6	33.4
180°	41.7	41.7	41.7	41.7	41.7



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	20.9	79.3	204.5	246.3	254.6
110°	25.0	66.8	171.1	208.7	217.1



(END OF REPORT)