

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: P830687

Luminaire Tested: **OHBL-60SE-MCL-UNV-L930-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830687  
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-60SE-MCL-UNV-L930-CD  
Description: 60000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 3000K LEDS AND MEDIUM CLEAR LENS  
Light Source: -  
Ballast/Driver: -

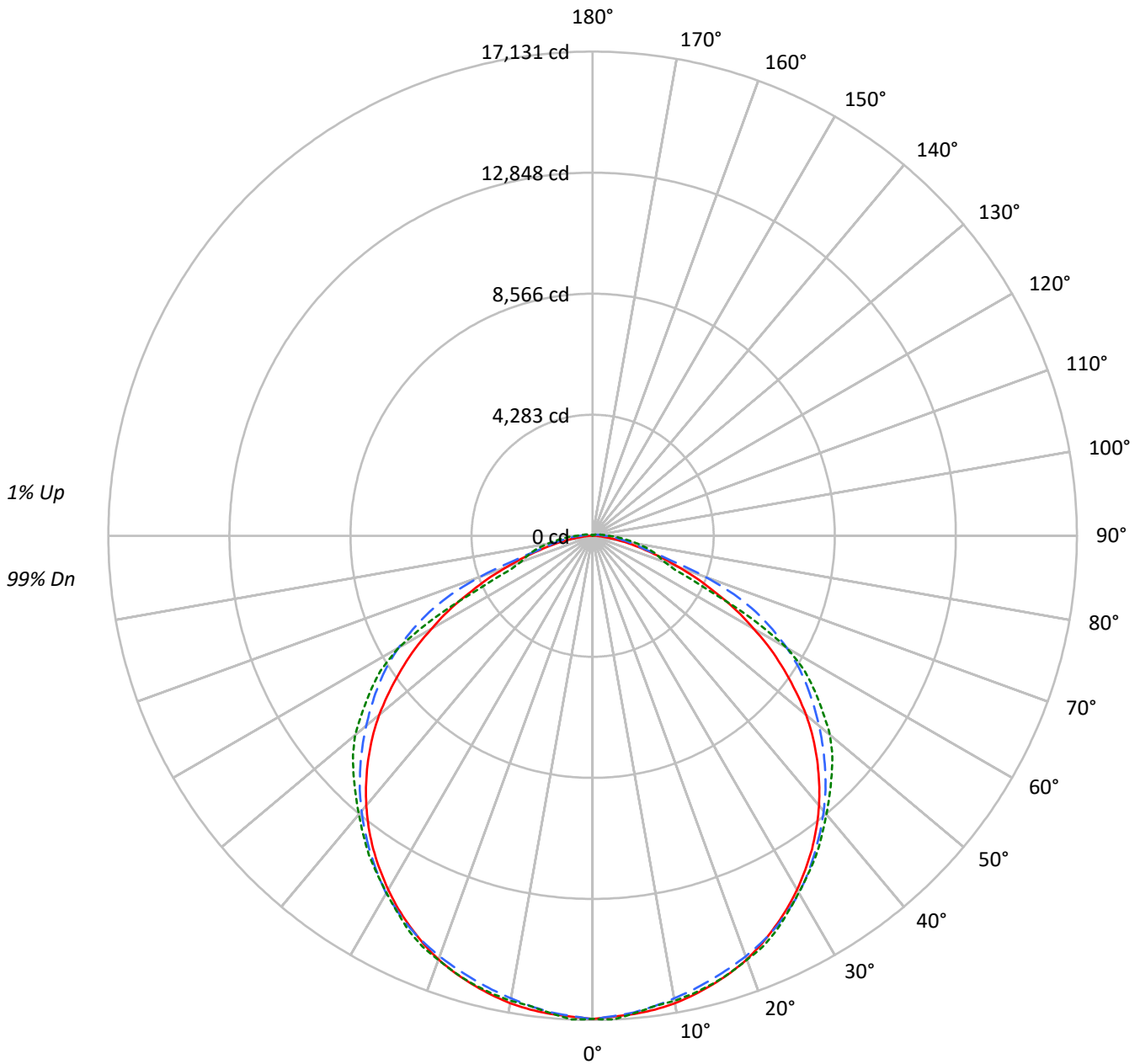
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 48321.0 lumens  
Efficiency: N/A  
Efficacy: 133.5 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 362  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: P830687

CATALOG NUMBER: OHBL-60SE-MCL-UNV-L930-CD

### 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	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°	29200	29200	29200
5°	29009	28762	28818
10°	28902	28314	28479
15°	28719	27976	28270
20°	28536	27757	28001
25°	28192	27537	27734
30°	27817	27198	27189
35°	27369	26667	26878
40°	26787	26118	26461
45°	25981	25484	26261
50°	24887	24764	26022
55°	23150	24052	25017
60°	20876	23018	23089
65°	17908	21120	14601
70°	14424	16453	10555
75°	10814	9738	10667
80°	7527	8059	10115
85°	4285	7318	9358



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1612.0	3.3
10°-20°	4622.4	9.6
20°-30°	7059.9	14.6
30°-40°	8566.1	17.7
40°-50°	8978.1	18.6
50°-60°	8135.5	16.8
60°-70°	5454.5	11.3
70°-80°	2449.3	5.1
80°-90°	888.8	1.8
90°-100°	267.5	0.6
100°-110°	126.2	0.3
110°-120°	63.3	0.1
120°-130°	34.9	0.1
130°-140°	24.0	0.0
140°-150°	16.1	0.0
150°-160°	12.0	0.0
160°-170°	7.7	0.0
170°-180°	2.4	0.0
0°-30°	13294.4	27.5
0°-40°	21860.5	45.2
0°-60°	38974.1	80.7
0°-90°	47766.8	98.9
90°-120°	457.0	0.9
90°-150°	532.1	1.1
90°-180°	554.0	1.1
0°-180°	48321.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	17096	17096	17096	17096	17096	
5°	16985	17044	16925	16977	16955	###
15°	16434	16369	16253	16396	16416	4640
25°	15267	15200	15306	15447	15403	7037
35°	13532	13564	13702	13848	13794	8458
45°	11230	11413	11626	11922	11959	8651
55°	8264	8662	9252	9623	9601	7376
65°	4850	5609	6368	5374	4388	4832
75°	1908	2769	2037	2084	2220	2086
85°	329	630	808	976	1023	401
90°	2	210	418	524	549	20
95°	2	131	287	348	358	3
105°	10	57	141	171	178	11
115°	20	30	72	92	96	18
125°	17	20	44	52	54	17
135°	22	25	27	40	42	18
145°	22	25	25	27	30	15
155°	25	27	27	27	25	11
165°	27	27	27	27	27	8
175°	27	27	25	22	22	3
180°	25	25	25	25	25	



TEST NUMBER: P830687

CATALOG NUMBER: OHBL-60SE-MCL-UNV-L930-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	17096.0	17096.0	17096.0	17096.0	17096.0
2.5°	17026.8	17098.5	17009.5	17105.9	17130.6
5°	16984.8	17044.1	16925.4	16977.4	16955.1
7.5°	16908.1	16927.9	16787.0	16829.0	16784.5
10°	16794.4	16784.5	16618.9	16700.5	16710.4
12.5°	16626.3	16596.7	16448.4	16572.0	16574.4
15°	16433.5	16369.3	16253.1	16396.4	16416.2
17.5°	16211.1	16127.0	16050.4	16235.8	16206.1
20°	15951.5	15852.6	15837.8	16040.5	15966.3
22.5°	15630.1	15553.5	15588.1	15780.9	15734.0
25°	15266.8	15200.0	15306.3	15447.2	15402.7
27.5°	14883.6	14844.1	14965.2	15074.0	14987.4
30°	14463.4	14441.1	14601.8	14690.8	14582.0
32.5°	14006.1	14013.5	14166.7	14287.9	14186.5
35°	13531.5	13563.6	13702.0	13847.9	13793.5
37.5°	13009.9	13081.6	13220.0	13385.6	13328.8
40°	12458.6	12562.5	12715.7	12915.9	12864.0
42.5°	11862.9	11993.9	12191.7	12414.1	12409.2
45°	11230.1	11413.0	11625.6	11922.2	11959.3
47.5°	10572.5	10777.7	11047.1	11442.7	11499.5
50°	9858.1	10115.2	10451.4	10926.0	10960.6
52.5°	9062.2	9413.2	9858.1	10313.0	10271.0
55°	8263.7	8661.7	9252.5	9623.3	9601.1
57.5°	7467.8	7915.2	8632.1	8896.6	8894.1
60°	6577.9	7143.9	7927.5	8127.8	7930.0
62.5°	5754.7	6362.8	7176.1	7030.2	6352.9
65°	4850.0	5608.9	6367.7	5374.0	4387.7
67.5°	4046.6	4837.6	5408.6	3680.7	3151.7
70°	3238.3	4110.9	4217.1	2731.5	2694.4
72.5°	2521.4	3450.8	2909.5	2338.5	2457.1
75°	1908.3	2768.6	2036.9	2083.9	2219.8
77.5°	1391.7	2125.9	1584.5	1826.8	1938.0
80°	956.6	1505.4	1292.8	1535.1	1611.7
82.5°	600.7	993.7	1035.7	1236.0	1315.1
85°	328.8	630.3	808.3	976.4	1023.4
87.5°	136.0	380.7	618.0	753.9	793.5
90°	2.5	210.1	417.8	524.1	548.8
92.5°	2.5	160.7	341.1	422.7	440.0
95°	2.5	131.0	286.7	348.5	358.4
97.5°	4.9	103.8	239.8	289.2	299.1
100°	7.4	86.5	200.2	242.3	249.7
102.5°	9.9	69.2	168.1	202.7	210.1
105°	9.9	56.9	140.9	170.6	178.0



TEST NUMBER: P830687

CATALOG NUMBER: OHBL-60SE-MCL-UNV-L930-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	17.3	34.6	84.0	106.3	111.2
115°	19.8	29.7	71.7	91.5	96.4
117.5°	19.8	24.7	61.8	76.6	81.6
120°	19.8	22.2	54.4	66.7	69.2
122.5°	19.8	19.8	47.0	59.3	61.8
125°	17.3	19.8	44.5	51.9	54.4
127.5°	19.8	19.8	39.6	47.0	49.4
130°	19.8	22.2	34.6	44.5	44.5
132.5°	22.2	24.7	32.1	42.0	42.0
135°	22.2	24.7	27.2	39.6	42.0
137.5°	24.7	24.7	24.7	37.1	39.6
140°	24.7	24.7	22.2	32.1	34.6
142.5°	22.2	24.7	22.2	29.7	32.1
145°	22.2	24.7	24.7	27.2	29.7
147.5°	24.7	24.7	24.7	24.7	27.2
150°	24.7	24.7	24.7	24.7	24.7
152.5°	24.7	24.7	24.7	24.7	24.7
155°	24.7	27.2	27.2	27.2	24.7
157.5°	24.7	27.2	27.2	27.2	27.2
160°	24.7	27.2	27.2	27.2	27.2
162.5°	27.2	27.2	27.2	27.2	27.2
165°	27.2	27.2	27.2	27.2	27.2
167.5°	27.2	29.7	27.2	27.2	27.2
170°	27.2	27.2	27.2	24.7	24.7
172.5°	27.2	27.2	27.2	24.7	24.7
175°	27.2	27.2	24.7	22.2	22.2
177.5°	29.7	27.2	24.7	22.2	19.8
180°	24.7	24.7	24.7	24.7	24.7



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	12.4	47.0	121.1	145.8	150.8
110°	14.8	39.6	101.3	123.6	128.5



(END OF REPORT)