

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: P830683

Luminaire Tested: **OHBL-60SE-MCL-UNV-L830-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830683
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-L830-CD
Description: 60000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 3000K LEDS AND MEDIUM CLEAR LENS
Light Source: -
Ballast/Driver: -

Summary

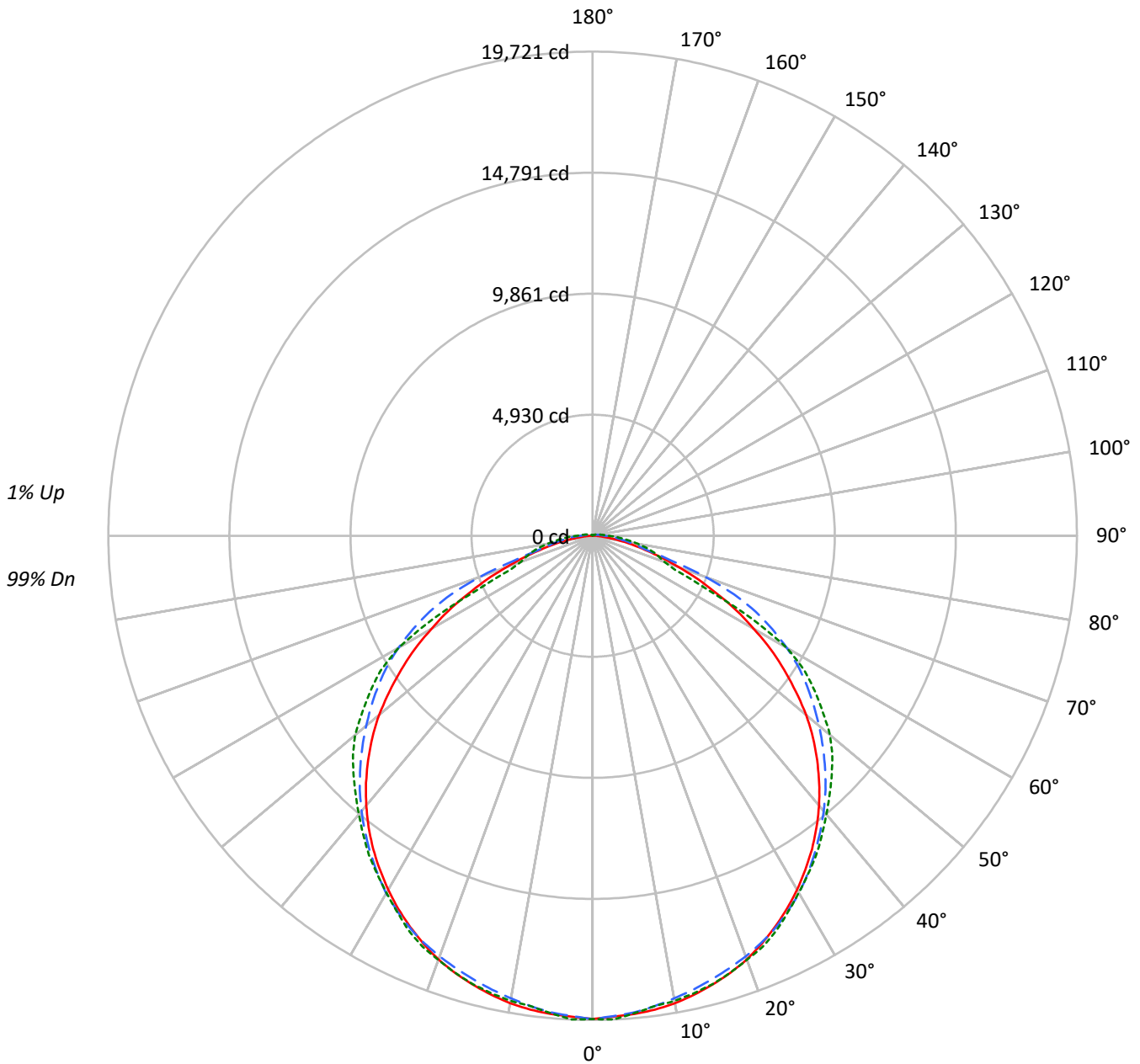
Lumens per Lamp: N/A
Luminaire Lumens: 55628.1 lumens
Efficiency: N/A
Efficacy: 153.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 362
Input Voltage (V): NR
Input Current (A_{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: P830683

CATALOG NUMBER: OHBL-60SE-MCL-UNV-L830-CD

Luminous Intensity Polar Plot





TEST NUMBER: P830683

CATALOG NUMBER: OHBL-60SE-MCL-UNV-L830-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°	33615	33615	33615
5°	33395	33112	33175
10°	33273	32596	32786
15°	33062	32206	32545
20°	32851	31955	32235
25°	32455	31701	31928
30°	32023	31311	31300
35°	31508	30699	30942
40°	30838	30068	30463
45°	29909	29338	30232
50°	28651	28508	29957
55°	26651	27689	28799
60°	24033	26498	26580
65°	20616	24314	16809
70°	16605	18942	12151
75°	12449	11211	12280
80°	8666	9277	11644
85°	4932	8425	10772



TEST NUMBER: P830683

CATALOG NUMBER: OHBL-60SE-MCL-UNV-L830-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1855.8	3.3
10°-20°	5321.4	9.6
20°-30°	8127.5	14.6
30°-40°	9861.5	17.7
40°-50°	10335.8	18.6
50°-60°	9365.7	16.8
60°-70°	6279.4	11.3
70°-80°	2819.7	5.1
80°-90°	1023.2	1.8
90°-100°	308.0	0.6
100°-110°	145.3	0.3
110°-120°	72.8	0.1
120°-130°	40.2	0.1
130°-140°	27.6	0.0
140°-150°	18.6	0.0
150°-160°	13.8	0.0
160°-170°	8.9	0.0
170°-180°	2.8	0.0
0°-30°	15304.7	27.5
0°-40°	25166.2	45.2
0°-60°	44867.7	80.7
0°-90°	54990.0	98.9
90°-120°	526.2	0.9
90°-150°	612.6	1.1
90°-180°	638.0	1.1
0°-180°	55628.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	19681	19681	19681	19681	19681	
5°	19553	19622	19485	19545	19519	###
15°	18919	18845	18711	18876	18899	5342
25°	17575	17498	17621	17783	17732	8101
35°	15578	15615	15774	15942	15879	9736
45°	12928	13139	13384	13725	13768	9959
55°	9513	9972	10652	11078	11053	8492
65°	5583	6457	7331	6187	5051	5563
75°	2197	3187	2345	2399	2556	2401
85°	378	726	931	1124	1178	462
90°	3	242	481	603	632	23
95°	3	151	330	401	413	4
105°	11	66	162	196	205	13
115°	23	34	82	105	111	21
125°	20	23	51	60	63	20
135°	26	28	31	46	48	20
145°	26	28	28	31	34	17
155°	28	31	31	31	28	13
165°	31	31	31	31	31	9
175°	31	31	28	26	26	3
180°	28	28	28	28	28	



TEST NUMBER: P830683

CATALOG NUMBER: OHBL-60SE-MCL-UNV-L830-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	19681.2	19681.2	19681.2	19681.2	19681.2
2.5°	19601.6	19684.1	19581.6	19692.6	19721.1
5°	19553.2	19621.5	19484.9	19544.6	19519.0
7.5°	19465.0	19487.7	19325.5	19373.9	19322.7
10°	19334.1	19322.7	19132.0	19225.9	19237.3
12.5°	19140.5	19106.4	18935.6	19077.9	19080.8
15°	18918.6	18844.6	18710.8	18875.9	18898.7
17.5°	18662.5	18565.7	18477.5	18690.9	18656.8
20°	18363.6	18249.8	18232.7	18466.1	18380.7
22.5°	17993.7	17905.5	17945.3	18167.3	18113.2
25°	17575.4	17498.5	17620.9	17783.1	17731.9
27.5°	17134.3	17088.8	17228.2	17353.4	17253.8
30°	16650.5	16624.9	16809.9	16912.3	16787.1
32.5°	16124.0	16132.6	16309.0	16448.5	16331.8
35°	15577.7	15614.7	15774.0	15941.9	15879.3
37.5°	14977.2	15059.7	15219.1	15409.8	15344.3
40°	14342.6	14462.1	14638.6	14869.1	14809.3
42.5°	13656.8	13807.6	14035.3	14291.4	14285.7
45°	12928.3	13138.8	13383.6	13725.1	13767.8
47.5°	12171.3	12407.5	12717.7	13173.0	13238.4
50°	11348.9	11644.8	12031.8	12578.2	12618.1
52.5°	10432.5	10836.6	11348.9	11872.5	11824.1
55°	9513.4	9971.5	10651.7	11078.5	11052.9
57.5°	8597.0	9112.1	9937.4	10241.9	10239.0
60°	7572.6	8224.2	9126.3	9356.8	9129.2
62.5°	6624.9	7325.0	8261.2	8093.3	7313.6
65°	5583.4	6457.0	7330.7	6186.7	5051.2
67.5°	4658.5	5569.1	6226.5	4237.3	3628.3
70°	3727.9	4732.5	4854.9	3144.6	3101.9
72.5°	2902.7	3972.7	3349.5	2692.1	2828.7
75°	2196.9	3187.2	2344.9	2399.0	2555.5
77.5°	1602.2	2447.3	1824.1	2103.0	2231.1
80°	1101.3	1733.1	1488.3	1767.2	1855.4
82.5°	691.5	1144.0	1192.4	1422.9	1513.9
85°	378.5	725.7	930.6	1124.1	1178.1
87.5°	156.5	438.2	711.4	868.0	913.5
90°	2.8	241.9	480.9	603.3	631.8
92.5°	2.8	185.0	392.7	486.6	506.5
95°	2.8	150.8	330.1	401.3	412.6
97.5°	5.7	119.5	276.0	333.0	344.3
100°	8.5	99.6	230.5	278.9	287.4
102.5°	11.4	79.7	193.5	233.4	241.9
105°	11.4	65.5	162.2	196.4	204.9



TEST NUMBER: P830683

CATALOG NUMBER: OHBL-60SE-MCL-UNV-L830-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	19.9	39.8	96.8	122.4	128.1
115°	22.8	34.1	82.5	105.3	111.0
117.5°	22.8	28.5	71.1	88.2	93.9
120°	22.8	25.6	62.6	76.8	79.7
122.5°	22.8	22.8	54.1	68.3	71.1
125°	19.9	22.8	51.2	59.8	62.6
127.5°	22.8	22.8	45.5	54.1	56.9
130°	22.8	25.6	39.8	51.2	51.2
132.5°	25.6	28.5	37.0	48.4	48.4
135°	25.6	28.5	31.3	45.5	48.4
137.5°	28.5	28.5	28.5	42.7	45.5
140°	28.5	28.5	25.6	37.0	39.8
142.5°	25.6	28.5	25.6	34.1	37.0
145°	25.6	28.5	28.5	31.3	34.1
147.5°	28.5	28.5	28.5	28.5	31.3
150°	28.5	28.5	28.5	28.5	28.5
152.5°	28.5	28.5	28.5	28.5	28.5
155°	28.5	31.3	31.3	31.3	28.5
157.5°	28.5	31.3	31.3	31.3	31.3
160°	28.5	31.3	31.3	31.3	31.3
162.5°	31.3	31.3	31.3	31.3	31.3
165°	31.3	31.3	31.3	31.3	31.3
167.5°	31.3	34.1	31.3	31.3	31.3
170°	31.3	31.3	31.3	28.5	28.5
172.5°	31.3	31.3	31.3	28.5	28.5
175°	31.3	31.3	28.5	25.6	25.6
177.5°	34.1	31.3	28.5	25.6	22.8
180°	28.5	28.5	28.5	28.5	28.5



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	14.2	54.1	139.4	167.9	173.6
110°	17.1	45.5	116.7	142.3	148.0



(END OF REPORT)