

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: P830677

Luminaire Tested: **OHBL-60SE-A-UNV-L940-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830677
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-A-UNV-L940-CD
Description: 60000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 4000K LEDS AND AISLE LENS
Light Source: -
Ballast/Driver: -

Summary

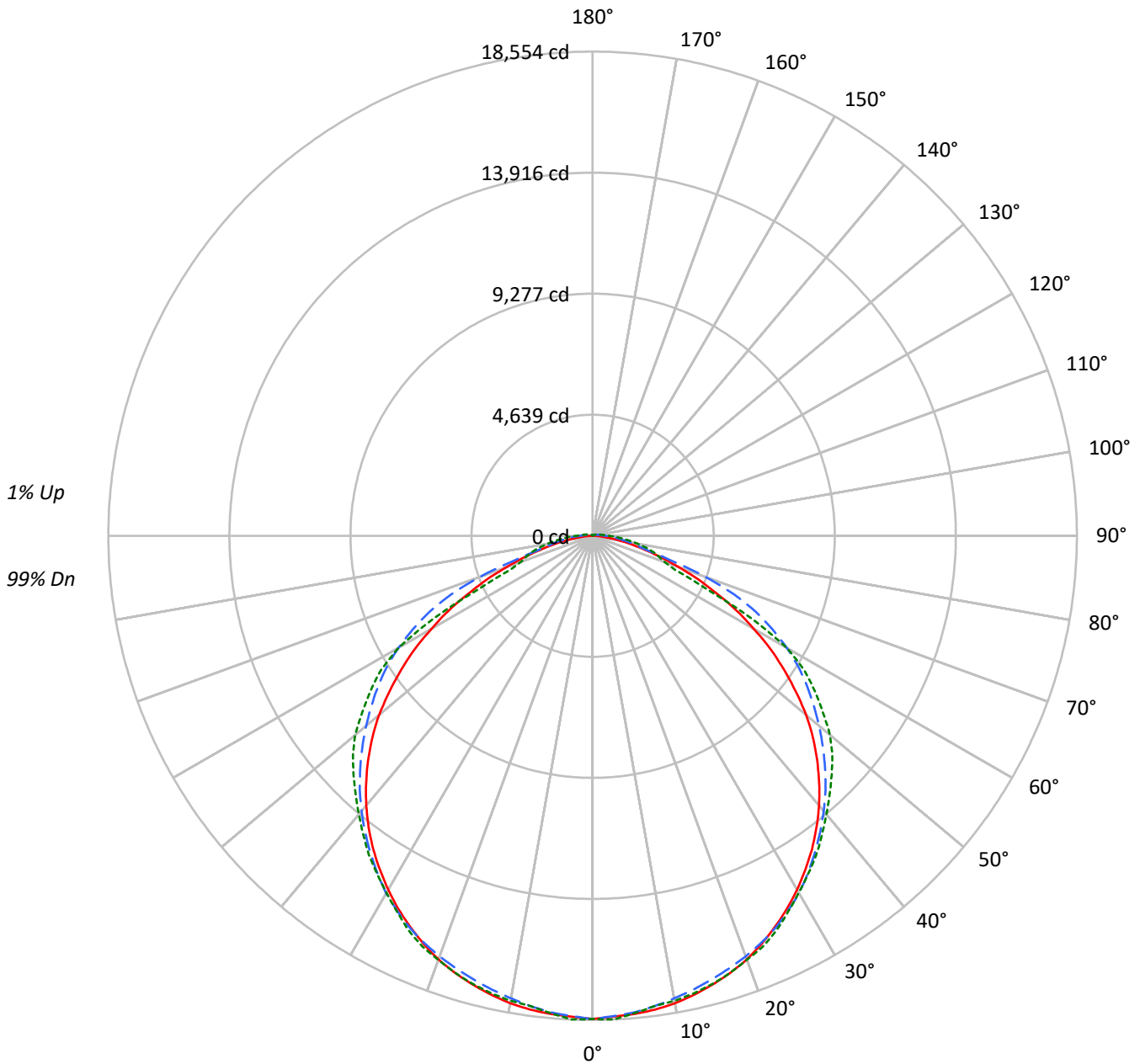
Lumens per Lamp: N/A
Luminaire Lumens: 52335.1 lumens
Efficiency: N/A
Efficacy: 144.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

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: P830677

CATALOG NUMBER: OHBL-60SE-A-UNV-L940-CD

Luminous Intensity Polar Plot





TEST NUMBER: P830677

CATALOG NUMBER: OHBL-60SE-A-UNV-L940-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°	31625	31625	31625
5°	31419	31152	31212
10°	31303	30666	30845
15°	31105	30299	30619
20°	30906	30063	30327
25°	30533	29825	30038
30°	30128	29457	29448
35°	29643	28882	29111
40°	29012	28288	28659
45°	28139	27601	28442
50°	26954	26821	28184
55°	25073	26050	27095
60°	22610	24930	25007
65°	19396	22874	15814
70°	15623	17820	11432
75°	11713	10547	11553
80°	8153	8728	10955
85°	4640	7926	10135



TEST NUMBER: P830677

CATALOG NUMBER: OHBL-60SE-A-UNV-L940-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1745.9	3.3
10°-20°	5006.4	9.6
20°-30°	7646.4	14.6
30°-40°	9277.7	17.7
40°-50°	9723.9	18.6
50°-60°	8811.3	16.8
60°-70°	5907.6	11.3
70°-80°	2652.8	5.1
80°-90°	962.7	1.8
90°-100°	289.8	0.6
100°-110°	136.7	0.3
110°-120°	68.5	0.1
120°-130°	37.8	0.1
130°-140°	26.0	0.0
140°-150°	17.5	0.0
150°-160°	13.0	0.0
160°-170°	8.4	0.0
170°-180°	2.7	0.0
0°-30°	14398.7	27.5
0°-40°	23676.4	45.2
0°-60°	42211.6	80.7
0°-90°	51734.7	98.9
90°-120°	495.0	0.9
90°-150°	576.3	1.1
90°-180°	600.0	1.1
0°-180°	52335.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	18516	18516	18516	18516	18516	
5°	18396	18460	18331	18388	18364	###
15°	17799	17729	17603	17758	17780	5025
25°	16535	16463	16578	16730	16682	7622
35°	14656	14690	14840	14998	14939	9160
45°	12163	12361	12591	12913	12953	9370
55°	8950	9381	10021	10423	10399	7989
65°	5253	6075	6897	5820	4752	5234
75°	2067	2999	2206	2257	2404	2259
85°	356	683	876	1058	1108	435
90°	3	228	452	568	594	21
95°	3	142	311	378	388	4
105°	11	62	153	185	193	12
115°	21	32	78	99	104	20
125°	19	21	48	56	59	19
135°	24	27	30	43	46	19
145°	24	27	27	30	32	16
155°	27	30	30	30	27	12
165°	30	30	30	30	30	8
175°	30	30	27	24	24	3
180°	27	27	27	27	27	



TEST NUMBER: P830677

CATALOG NUMBER: OHBL-60SE-A-UNV-L940-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	18516.2	18516.2	18516.2	18516.2	18516.2
2.5°	18441.2	18518.8	18422.5	18526.9	18553.6
5°	18395.7	18459.9	18331.4	18387.7	18363.6
7.5°	18312.7	18334.1	18181.5	18227.0	18178.8
10°	18189.5	18178.8	17999.4	18087.8	18098.5
12.5°	18007.5	17975.4	17814.7	17948.6	17951.3
15°	17798.7	17729.0	17603.2	17758.5	17779.9
17.5°	17557.7	17466.7	17383.7	17584.5	17552.3
20°	17276.6	17169.5	17153.4	17373.0	17292.6
22.5°	16928.5	16845.5	16883.0	17091.8	17041.0
25°	16535.0	16462.7	16577.8	16730.4	16682.2
27.5°	16120.0	16077.2	16208.3	16326.1	16232.4
30°	15664.8	15640.8	15814.8	15911.2	15793.4
32.5°	15169.5	15177.6	15343.6	15474.8	15365.0
35°	14655.5	14690.3	14840.2	14998.2	14939.3
37.5°	14090.6	14168.2	14318.2	14497.5	14436.0
40°	13493.6	13606.0	13772.0	13988.9	13932.6
42.5°	12848.3	12990.2	13204.4	13445.4	13440.0
45°	12162.9	12361.1	12591.3	12912.6	12952.7
47.5°	11450.8	11673.0	11964.8	12393.2	12454.8
50°	10677.0	10955.5	11319.6	11833.6	11871.1
52.5°	9815.0	10195.1	10677.0	11169.7	11124.2
55°	8950.2	9381.2	10021.1	10422.7	10398.6
57.5°	8088.1	8572.7	9349.1	9635.6	9632.9
60°	7124.3	7737.4	8586.1	8802.9	8588.8
62.5°	6232.7	6891.4	7772.2	7614.2	6880.6
65°	5252.9	6074.8	6896.7	5820.4	4752.2
67.5°	4382.7	5239.5	5857.9	3986.5	3413.6
70°	3507.3	4452.3	4567.5	2958.4	2918.3
72.5°	2730.8	3737.5	3151.2	2532.7	2661.2
75°	2066.9	2998.6	2206.1	2257.0	2404.2
77.5°	1507.3	2302.5	1716.1	1978.5	2099.0
80°	1036.1	1630.5	1400.2	1662.6	1745.6
82.5°	650.6	1076.3	1121.8	1338.6	1424.3
85°	356.1	682.7	875.5	1057.5	1108.4
87.5°	147.3	412.3	669.3	816.6	859.4
90°	2.7	227.6	452.5	567.6	594.4
92.5°	2.7	174.0	369.5	457.8	476.6
95°	2.7	141.9	310.6	377.5	388.2
97.5°	5.4	112.4	259.7	313.2	324.0
100°	8.0	93.7	216.9	262.4	270.4
102.5°	10.7	75.0	182.1	219.5	227.6
105°	10.7	61.6	152.6	184.7	192.8



TEST NUMBER: P830677

CATALOG NUMBER: OHBL-60SE-A-UNV-L940-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	18.7	37.5	91.0	115.1	120.5
115°	21.4	32.1	77.6	99.1	104.4
117.5°	21.4	26.8	66.9	83.0	88.4
120°	21.4	24.1	58.9	72.3	75.0
122.5°	21.4	21.4	50.9	64.3	66.9
125°	18.7	21.4	48.2	56.2	58.9
127.5°	21.4	21.4	42.8	50.9	53.5
130°	21.4	24.1	37.5	48.2	48.2
132.5°	24.1	26.8	34.8	45.5	45.5
135°	24.1	26.8	29.5	42.8	45.5
137.5°	26.8	26.8	26.8	40.2	42.8
140°	26.8	26.8	24.1	34.8	37.5
142.5°	24.1	26.8	24.1	32.1	34.8
145°	24.1	26.8	26.8	29.5	32.1
147.5°	26.8	26.8	26.8	26.8	29.5
150°	26.8	26.8	26.8	26.8	26.8
152.5°	26.8	26.8	26.8	26.8	26.8
155°	26.8	29.5	29.5	29.5	26.8
157.5°	26.8	29.5	29.5	29.5	29.5
160°	26.8	29.5	29.5	29.5	29.5
162.5°	29.5	29.5	29.5	29.5	29.5
165°	29.5	29.5	29.5	29.5	29.5
167.5°	29.5	32.1	29.5	29.5	29.5
170°	29.5	29.5	29.5	26.8	26.8
172.5°	29.5	29.5	29.5	26.8	26.8
175°	29.5	29.5	26.8	24.1	24.1
177.5°	32.1	29.5	26.8	24.1	21.4
180°	26.8	26.8	26.8	26.8	26.8



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	13.4	50.9	131.2	158.0	163.3
110°	16.1	42.8	109.8	133.9	139.2



(END OF REPORT)