

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: P830673

Luminaire Tested: **OHBL-60SE-A-UNV-L840-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830673
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-L840-CD
Description: 60000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND AISLE LENS
Light Source: -
Ballast/Driver: -

Summary

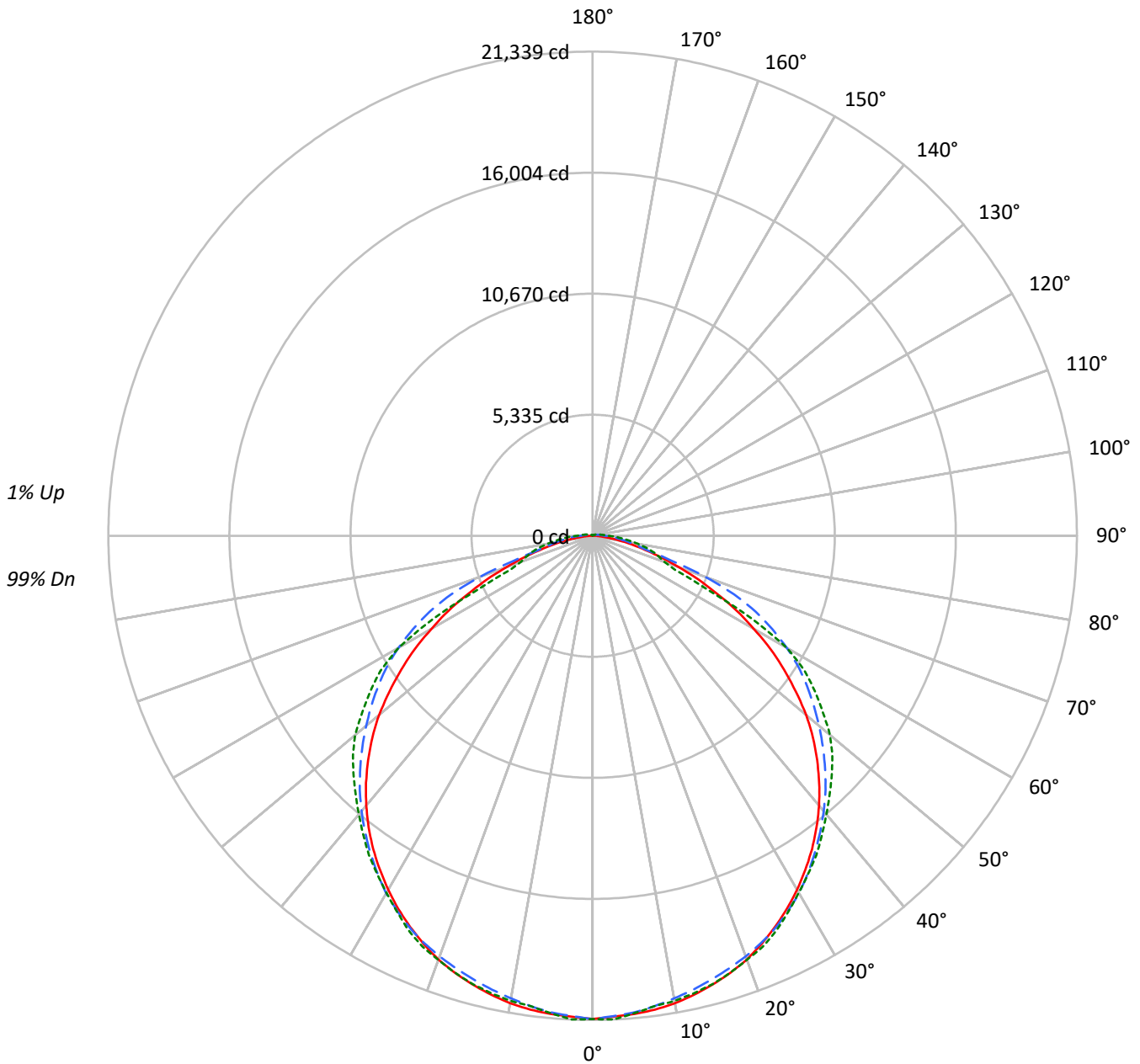
Lumens per Lamp: N/A
Luminaire Lumens: 60193.0 lumens
Efficiency: N/A
Efficacy: 166.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

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: P830673

CATALOG NUMBER: OHBL-60SE-A-UNV-L840-CD

Luminous Intensity Polar Plot





TEST NUMBER: P830673

CATALOG NUMBER: OHBL-60SE-A-UNV-L840-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°	36374	36374	36374
5°	36136	35829	35898
10°	36004	35271	35476
15°	35775	34849	35216
20°	35547	34577	34881
25°	35118	34303	34548
30°	34651	33880	33869
35°	34094	33219	33482
40°	33368	32535	32962
45°	32364	31746	32713
50°	31002	30848	32416
55°	28838	29961	31163
60°	26005	28673	28761
65°	22308	26309	18188
70°	17968	20496	13148
75°	13471	12131	13288
80°	9377	10039	12600
85°	5336	9115	11656



TEST NUMBER: P830673

CATALOG NUMBER: OHBL-60SE-A-UNV-L840-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2008.0	3.3
10°-20°	5758.1	9.6
20°-30°	8794.5	14.6
30°-40°	10670.7	17.7
40°-50°	11183.9	18.6
50°-60°	10134.3	16.8
60°-70°	6794.7	11.3
70°-80°	3051.1	5.1
80°-90°	1107.2	1.8
90°-100°	333.3	0.6
100°-110°	157.3	0.3
110°-120°	78.8	0.1
120°-130°	43.5	0.1
130°-140°	29.9	0.0
140°-150°	20.1	0.0
150°-160°	14.9	0.0
160°-170°	9.6	0.0
170°-180°	3.0	0.0
0°-30°	16560.7	27.5
0°-40°	27231.4	45.2
0°-60°	48549.6	80.7
0°-90°	59502.6	98.9
90°-120°	569.3	0.9
90°-150°	662.8	1.1
90°-180°	690.0	1.1
0°-180°	60193.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	21296	21296	21296	21296	21296	
5°	21158	21232	21084	21148	21121	###
15°	20471	20391	20246	20425	20450	5780
25°	19018	18934	19067	19242	19187	8766
35°	16856	16896	17068	17250	17182	10535
45°	13989	14217	14482	14851	14898	10777
55°	10294	10790	11526	11988	11960	9189
65°	6042	6987	7932	6694	5466	6020
75°	2377	3449	2537	2596	2765	2598
85°	410	785	1007	1216	1275	500
90°	3	262	520	653	684	24
95°	3	163	357	434	446	4
105°	12	71	176	212	222	14
115°	25	37	89	114	120	23
125°	22	25	55	65	68	21
135°	28	31	34	49	52	22
145°	28	31	31	34	37	18
155°	31	34	34	34	31	14
165°	34	34	34	34	34	9
175°	34	34	31	28	28	3
180°	31	31	31	31	31	



TEST NUMBER: P830673

CATALOG NUMBER: OHBL-60SE-A-UNV-L840-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	21296.3	21296.3	21296.3	21296.3	<i>21296.3</i>
2.5°	<i>21210.1</i>	<i>21299.4</i>	<i>21188.6</i>	<i>21308.7</i>	<i>21339.4</i>
5°	21157.8	21231.7	21083.9	21148.5	<i>21120.8</i>
7.5°	21062.3	21086.9	20911.4	20963.8	<i>20908.3</i>
10°	20920.7	20908.3	20702.0	20803.6	<i>20816.0</i>
12.5°	20711.3	20674.3	20489.6	20643.5	<i>20646.6</i>
15°	20471.1	20391.0	20246.3	20424.9	<i>20449.5</i>
17.5°	20194.0	20089.3	19993.8	20224.7	<i>20187.8</i>
20°	19870.6	19747.5	19729.0	19981.5	<i>19889.1</i>
22.5°	19470.3	19374.9	19418.0	19658.2	<i>19599.6</i>
25°	19017.7	18934.5	19066.9	19242.5	<i>19187.0</i>
27.5°	18540.4	18491.1	18642.0	18777.5	<i>18669.7</i>
30°	18016.9	17989.2	18189.3	18300.2	<i>18164.7</i>
32.5°	17447.2	17456.5	17647.4	17798.3	<i>17672.0</i>
35°	16856.0	16896.0	17068.5	17250.2	<i>17182.4</i>
37.5°	16206.3	16295.6	16468.0	16674.3	<i>16603.5</i>
40°	15519.6	15648.9	15839.8	16089.3	<i>16024.6</i>
42.5°	14777.5	14940.7	15187.0	15464.2	<i>15458.0</i>
45°	13989.2	14217.1	14481.9	14851.4	<i>14897.6</i>
47.5°	13170.1	13425.7	13761.3	14254.0	<i>14324.8</i>
50°	12280.2	12600.4	13019.2	13610.4	<i>13653.5</i>
52.5°	11288.7	11725.9	12280.2	12846.8	<i>12794.4</i>
55°	10294.0	10789.8	11525.8	11987.7	<i>11959.9</i>
57.5°	9302.5	9859.9	10752.9	11082.3	<i>11079.3</i>
60°	8194.0	8899.1	9875.3	10124.7	<i>9878.3</i>
62.5°	7168.6	7926.1	8939.2	8757.5	<i>7913.8</i>
65°	6041.6	6986.9	7932.2	6694.4	<i>5465.7</i>
67.5°	5040.8	6026.2	6737.5	4585.1	<i>3926.1</i>
70°	4033.9	5120.9	5253.3	3402.6	<i>3356.4</i>
72.5°	3140.9	4298.7	3624.3	2913.0	<i>3060.8</i>
75°	2377.2	3448.8	2537.3	2595.8	<i>2765.2</i>
77.5°	1733.6	2648.2	1973.8	2275.6	<i>2414.2</i>
80°	1191.7	1875.3	1610.5	1912.2	<i>2007.7</i>
82.5°	748.3	1237.9	1290.2	1539.6	<i>1638.2</i>
85°	409.5	785.2	1006.9	1216.3	<i>1274.8</i>
87.5°	169.4	474.2	769.8	939.2	<i>988.5</i>
90°	3.1	261.7	520.4	652.8	<i>683.6</i>
92.5°	3.1	200.2	424.9	526.6	<i>548.1</i>
95°	3.1	163.2	357.2	434.2	<i>446.5</i>
97.5°	6.2	129.3	298.7	360.3	<i>372.6</i>
100°	9.2	107.8	249.4	301.8	<i>311.0</i>
102.5°	12.3	86.2	209.4	252.5	<i>261.7</i>
105°	12.3	70.8	175.5	212.5	<i>221.7</i>



TEST NUMBER: P830673

CATALOG NUMBER: OHBL-60SE-A-UNV-L840-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	21.6	43.1	104.7	132.4	138.6
115°	24.6	37.0	89.3	113.9	120.1
117.5°	24.6	30.8	77.0	95.5	101.6
120°	24.6	27.7	67.7	83.1	86.2
122.5°	24.6	24.6	58.5	73.9	77.0
125°	21.6	24.6	55.4	64.7	67.7
127.5°	24.6	24.6	49.3	58.5	61.6
130°	24.6	27.7	43.1	55.4	55.4
132.5°	27.7	30.8	40.0	52.3	52.3
135°	27.7	30.8	33.9	49.3	52.3
137.5°	30.8	30.8	30.8	46.2	49.3
140°	30.8	30.8	27.7	40.0	43.1
142.5°	27.7	30.8	27.7	37.0	40.0
145°	27.7	30.8	30.8	33.9	37.0
147.5°	30.8	30.8	30.8	30.8	33.9
150°	30.8	30.8	30.8	30.8	30.8
152.5°	30.8	30.8	30.8	30.8	30.8
155°	30.8	33.9	33.9	33.9	30.8
157.5°	30.8	33.9	33.9	33.9	33.9
160°	30.8	33.9	33.9	33.9	33.9
162.5°	33.9	33.9	33.9	33.9	33.9
165°	33.9	33.9	33.9	33.9	33.9
167.5°	33.9	37.0	33.9	33.9	33.9
170°	33.9	33.9	33.9	30.8	30.8
172.5°	33.9	33.9	33.9	30.8	30.8
175°	33.9	33.9	30.8	27.7	27.7
177.5°	37.0	33.9	30.8	27.7	24.6
180°	30.8	30.8	30.8	30.8	30.8



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	15.4	58.5	150.9	181.7	187.8
110°	18.5	49.3	126.3	154.0	160.1



(END OF REPORT)