

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: P830685

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

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P830685
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-L840-CD
Description: 60000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND MEDIUM CLEAR LENS
Light Source: -
Ballast/Driver: -

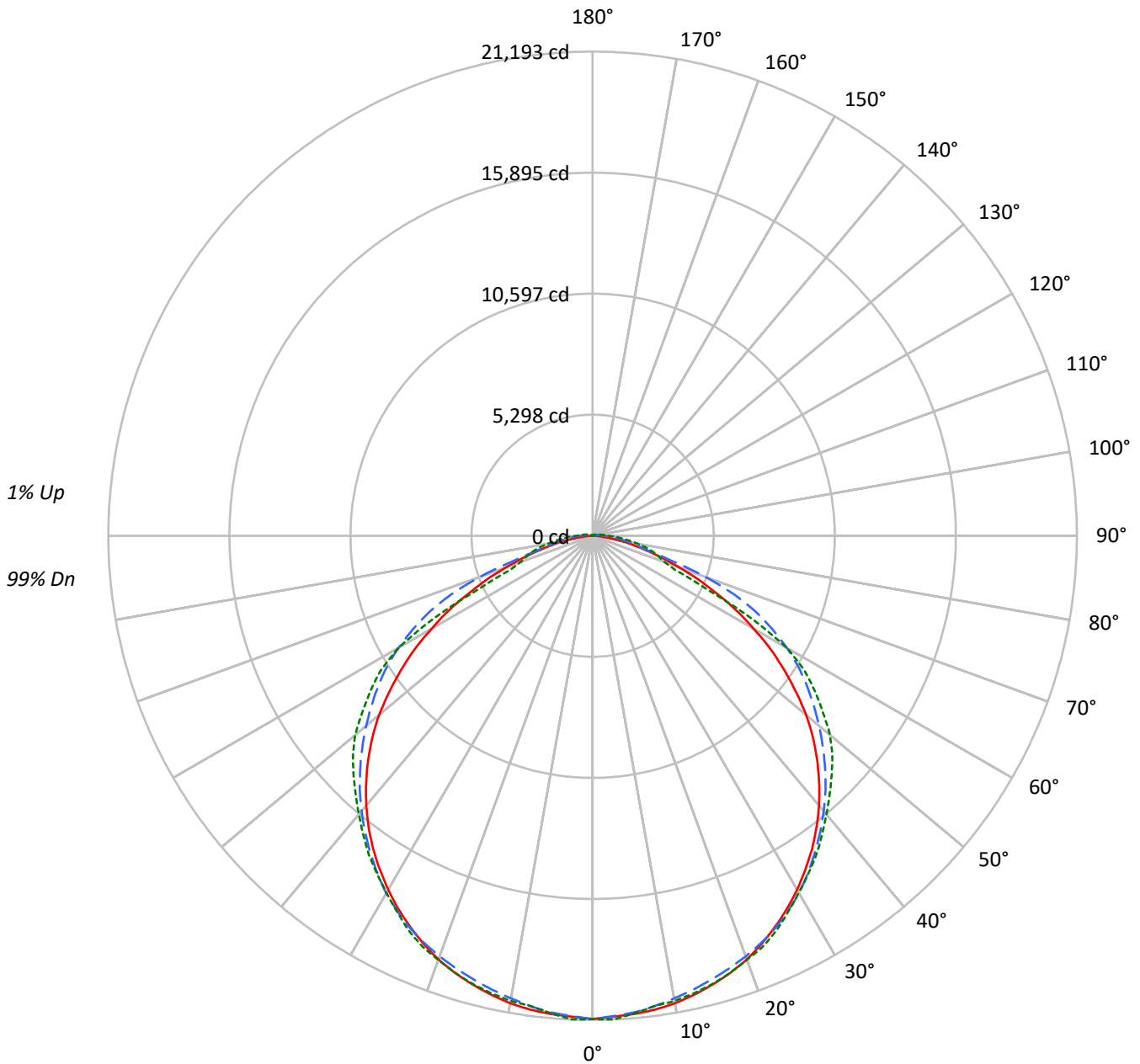
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 59779.0 lumens
Efficiency: N/A
Efficacy: 165.1 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

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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°	36124	36124	36124
5°	35887	35583	35651
10°	35756	35028	35232
15°	35529	34609	34974
20°	35302	34339	34641
25°	34876	34067	34310
30°	34413	33647	33636
35°	33859	32990	33251
40°	33139	32311	32736
45°	32141	31527	32488
50°	30788	30636	32193
55°	28639	29755	30949
60°	25826	28476	28564
65°	22154	26128	18063
70°	17844	20355	13058
75°	13379	12048	13197
80°	9312	9970	12514
85°	5300	9053	11577



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1994.2	3.3
10°-20°	5718.5	9.6
20°-30°	8734.0	14.6
30°-40°	10597.3	17.7
40°-50°	11107.0	18.6
50°-60°	10064.6	16.8
60°-70°	6747.9	11.3
70°-80°	3030.1	5.1
80°-90°	1099.6	1.8
90°-100°	331.0	0.6
100°-110°	156.2	0.3
110°-120°	78.3	0.1
120°-130°	43.2	0.1
130°-140°	29.7	0.0
140°-150°	20.0	0.0
150°-160°	14.8	0.0
160°-170°	9.5	0.0
170°-180°	3.0	0.0
0°-30°	16446.8	27.5
0°-40°	27044.1	45.2
0°-60°	48215.7	80.7
0°-90°	59093.3	98.9
90°-120°	565.4	0.9
90°-150°	658.2	1.1
90°-180°	686.0	1.1
0°-180°	59779.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	21150	21150	21150	21150	21150	
5°	21012	21086	20939	21003	20976	###
15°	20330	20251	20107	20284	20309	5740
25°	18887	18804	18936	19110	19055	8706
35°	16740	16780	16951	17132	17064	10463
45°	13893	14119	14382	14749	14795	10702
55°	10223	10716	11446	11905	11878	9125
65°	6000	6939	7878	6648	5428	5978
75°	2361	3425	2520	2578	2746	2580
85°	407	780	1000	1208	1266	496
90°	3	260	517	648	679	24
95°	3	162	355	431	443	4
105°	12	70	174	211	220	14
115°	24	37	89	113	119	23
125°	21	24	55	64	67	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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	21149.9	21149.9	21149.9	21149.9	<i>21149.9</i>
2.5°	<i>21064.2</i>	<i>21152.9</i>	<i>21042.8</i>	<i>21162.1</i>	<i>21192.7</i>
5°	21012.2	21085.6	20938.9	21003.1	<i>20975.5</i>
7.5°	20917.4	20941.9	20767.6	20819.6	<i>20764.5</i>
10°	20776.8	20764.5	20559.6	20660.6	<i>20672.8</i>
12.5°	20568.8	20532.1	20348.6	20501.5	<i>20504.6</i>
15°	20330.3	20250.8	20107.0	20284.4	<i>20308.9</i>
17.5°	20055.1	19951.1	19856.3	20085.6	<i>20048.9</i>
20°	19734.0	19611.6	19593.3	19844.0	<i>19752.3</i>
22.5°	19336.4	19241.6	19284.4	19522.9	<i>19464.8</i>
25°	18886.9	18804.3	18935.8	19110.1	<i>19055.1</i>
27.5°	18412.9	18363.9	18513.8	18648.3	<i>18541.3</i>
30°	17893.0	17865.5	18064.2	18174.3	<i>18039.8</i>
32.5°	17327.2	17336.4	17526.0	17675.9	<i>17550.5</i>
35°	16740.1	16779.8	16951.1	17131.5	<i>17064.2</i>
37.5°	16094.8	16183.5	16354.8	16559.6	<i>16489.3</i>
40°	15412.9	15541.3	15730.9	15978.6	<i>15914.4</i>
42.5°	14675.9	14837.9	15082.6	15357.8	<i>15351.7</i>
45°	13893.0	14119.3	14382.3	14749.2	<i>14795.1</i>
47.5°	13079.5	13333.3	13666.7	14156.0	<i>14226.3</i>
50°	12195.7	12513.8	12929.7	13516.8	<i>13559.6</i>
52.5°	11211.0	11645.3	12195.7	12758.4	<i>12706.4</i>
55°	10223.2	10715.6	11446.5	11905.2	<i>11877.7</i>
57.5°	9238.5	9792.1	10678.9	11006.1	<i>11003.1</i>
60°	8137.6	8837.9	9807.3	10055.1	<i>9810.4</i>
62.5°	7119.3	7871.6	8877.7	8697.3	<i>7859.3</i>
65°	6000.0	6938.8	7877.7	6648.3	<i>5428.1</i>
67.5°	5006.1	5984.7	6691.1	4553.5	<i>3899.1</i>
70°	4006.1	5085.6	5217.1	3379.2	<i>3333.3</i>
72.5°	3119.3	4269.1	3599.4	2893.0	<i>3039.8</i>
75°	2360.9	3425.1	2519.9	2578.0	<i>2746.2</i>
77.5°	1721.7	2630.0	1960.2	2259.9	<i>2397.6</i>
80°	1183.5	1862.4	1599.4	1899.1	<i>1993.9</i>
82.5°	743.1	1229.4	1281.3	1529.1	<i>1626.9</i>
85°	406.7	779.8	1000.0	1208.0	<i>1266.1</i>
87.5°	168.2	470.9	764.5	932.7	<i>981.7</i>
90°	3.1	259.9	516.8	648.3	<i>678.9</i>
92.5°	3.1	198.8	422.0	522.9	<i>544.3</i>
95°	3.1	162.1	354.7	431.2	<i>443.4</i>
97.5°	6.1	128.4	296.6	357.8	<i>370.0</i>
100°	9.2	107.0	247.7	299.7	<i>308.9</i>
102.5°	12.2	85.6	208.0	250.8	<i>259.9</i>
105°	12.2	70.3	174.3	211.0	<i>220.2</i>



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	21.4	42.8	104.0	131.5	137.6
115°	24.5	36.7	88.7	113.1	119.3
117.5°	24.5	30.6	76.5	94.8	100.9
120°	24.5	27.5	67.3	82.6	85.6
122.5°	24.5	24.5	58.1	73.4	76.5
125°	21.4	24.5	55.0	64.2	67.3
127.5°	24.5	24.5	48.9	58.1	61.2
130°	24.5	27.5	42.8	55.0	55.0
132.5°	27.5	30.6	39.8	52.0	52.0
135°	27.5	30.6	33.6	48.9	52.0
137.5°	30.6	30.6	30.6	45.9	48.9
140°	30.6	30.6	27.5	39.8	42.8
142.5°	27.5	30.6	27.5	36.7	39.8
145°	27.5	30.6	30.6	33.6	36.7
147.5°	30.6	30.6	30.6	30.6	33.6
150°	30.6	30.6	30.6	30.6	30.6
152.5°	30.6	30.6	30.6	30.6	30.6
155°	30.6	33.6	33.6	33.6	30.6
157.5°	30.6	33.6	33.6	33.6	33.6
160°	30.6	33.6	33.6	33.6	33.6
162.5°	33.6	33.6	33.6	33.6	33.6
165°	33.6	33.6	33.6	33.6	33.6
167.5°	33.6	36.7	33.6	33.6	33.6
170°	33.6	33.6	33.6	30.6	30.6
172.5°	33.6	33.6	33.6	30.6	30.6
175°	33.6	33.6	30.6	27.5	27.5
177.5°	36.7	33.6	30.6	27.5	24.5
180°	30.6	30.6	30.6	30.6	30.6



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	15.3	58.1	149.8	180.4	186.5
110°	18.3	48.9	125.4	152.9	159.0



(END OF REPORT)