

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: P830689

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830689
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-L940-CD
Description: 60000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 4000K LEDS AND MEDIUM CLEAR LENS
Light Source: -
Ballast/Driver: -

Summary

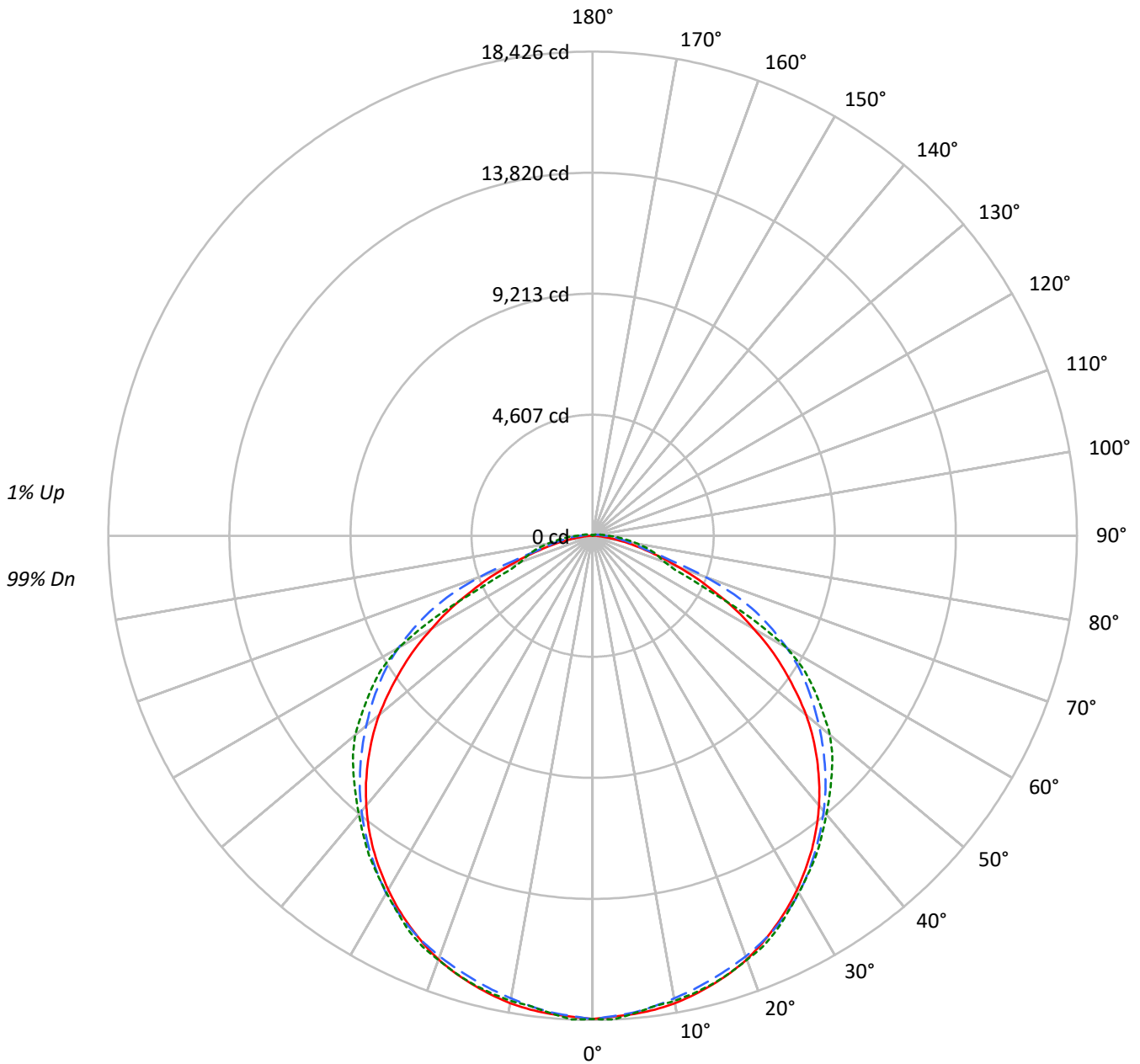
Lumens per Lamp: N/A
Luminaire Lumens: 51975.0 lumens
Efficiency: N/A
Efficacy: 143.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

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

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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°	31408	31408	31408
5°	31202	30937	30997
10°	31088	30455	30633
15°	30891	30091	30408
20°	30693	29856	30119
25°	30323	29620	29831
30°	29920	29255	29245
35°	29439	28684	28910
40°	28813	28093	28462
45°	27945	27411	28247
50°	26769	26636	27990
55°	24901	25871	26908
60°	22454	24758	24835
65°	19262	22717	15705
70°	15515	17697	11353
75°	11632	10475	11474
80°	8097	8668	10880
85°	4608	7872	10065



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1733.9	3.3
10°-20°	4972.0	9.6
20°-30°	7593.8	14.6
30°-40°	9213.9	17.7
40°-50°	9657.0	18.6
50°-60°	8750.7	16.8
60°-70°	5867.0	11.3
70°-80°	2634.5	5.1
80°-90°	956.1	1.8
90°-100°	287.8	0.6
100°-110°	135.8	0.3
110°-120°	68.0	0.1
120°-130°	37.5	0.1
130°-140°	25.8	0.0
140°-150°	17.4	0.0
150°-160°	12.9	0.0
160°-170°	8.3	0.0
170°-180°	2.6	0.0
0°-30°	14299.7	27.5
0°-40°	23513.5	45.2
0°-60°	41921.3	80.7
0°-90°	51378.9	98.9
90°-120°	491.6	0.9
90°-150°	572.3	1.1
90°-180°	596.0	1.1
0°-180°	51975.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	18389	18389	18389	18389	18389	
5°	18269	18333	18205	18261	18237	###
15°	17676	17607	17482	17636	17658	4991
25°	16421	16349	16464	16615	16568	7569
35°	14555	14589	14738	14895	14836	9097
45°	12079	12276	12505	12824	12864	9305
55°	8889	9317	9952	10351	10327	7934
65°	5217	6033	6849	5780	4720	5198
75°	2053	2978	2191	2241	2388	2243
85°	354	678	870	1050	1101	431
90°	3	226	449	564	590	21
95°	3	141	308	375	386	4
105°	11	61	152	184	191	12
115°	21	32	77	98	104	20
125°	19	21	48	56	58	19
135°	24	27	29	42	45	19
145°	24	27	27	29	32	16
155°	27	29	29	29	27	12
165°	29	29	29	29	29	8
175°	29	29	27	24	24	3
180°	27	27	27	27	27	



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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	18388.8	18388.8	18388.8	18388.8	18388.8
2.5°	18314.4	18391.5	18295.7	18399.4	18426.0
5°	18269.1	18333.0	18205.3	18261.2	18237.2
7.5°	18186.7	18208.0	18056.4	18101.6	18053.8
10°	18064.4	18053.8	17875.6	17963.4	17974.0
12.5°	17883.6	17851.7	17692.2	17825.1	17827.8
15°	17676.2	17607.1	17482.1	17636.3	17657.6
17.5°	17436.9	17346.5	17264.1	17463.5	17431.6
20°	17157.7	17051.4	17035.4	17253.5	17173.7
22.5°	16812.1	16729.7	16766.9	16974.3	16923.8
25°	16421.2	16349.4	16463.8	16615.3	16567.5
27.5°	16009.1	15966.6	16096.8	16213.8	16120.8
30°	15557.1	15533.2	15706.0	15801.7	15684.7
32.5°	15065.2	15073.2	15238.0	15368.3	15259.3
35°	14554.7	14589.3	14738.2	14895.0	14836.5
37.5°	13993.7	14070.8	14219.7	14397.8	14336.7
40°	13400.7	13512.4	13677.3	13892.6	13836.8
42.5°	12760.0	12900.9	13113.6	13352.9	13347.6
45°	12079.3	12276.0	12504.7	12823.8	12863.7
47.5°	11372.0	11592.7	11882.5	12307.9	12369.1
50°	10603.6	10880.1	11241.7	11752.2	11789.5
52.5°	9747.4	10125.0	10603.6	11092.8	11047.6
55°	8888.6	9316.7	9952.2	10351.0	10327.1
57.5°	8032.5	8513.7	9284.8	9569.3	9566.6
60°	7075.3	7684.2	8527.0	8742.4	8529.7
62.5°	6189.9	6844.0	7718.7	7561.8	6833.3
65°	5216.7	6033.0	6849.3	5780.4	4719.5
67.5°	4352.6	5203.4	5817.6	3959.1	3390.1
70°	3483.1	4421.7	4536.0	2938.1	2898.2
72.5°	2712.1	3711.8	3129.5	2515.3	2642.9
75°	2052.7	2977.9	2190.9	2241.4	2387.7
77.5°	1496.9	2286.6	1704.3	1964.9	2084.6
80°	1029.0	1619.3	1390.6	1651.2	1733.6
82.5°	646.1	1068.9	1114.1	1329.4	1414.5
85°	353.6	678.0	869.5	1050.3	1100.8
87.5°	146.2	409.5	664.7	811.0	853.5
90°	2.7	226.0	449.4	563.7	590.3
92.5°	2.7	172.8	366.9	454.7	473.3
95°	2.7	140.9	308.4	374.9	385.5
97.5°	5.3	111.7	257.9	311.1	321.7
100°	8.0	93.1	215.4	260.6	268.5
102.5°	10.6	74.4	180.8	218.0	226.0
105°	10.6	61.2	151.6	183.5	191.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	18.6	37.2	90.4	114.3	119.6
115°	21.3	31.9	77.1	98.4	103.7
117.5°	21.3	26.6	66.5	82.4	87.7
120°	21.3	23.9	58.5	71.8	74.4
122.5°	21.3	21.3	50.5	63.8	66.5
125°	18.6	21.3	47.9	55.8	58.5
127.5°	21.3	21.3	42.5	50.5	53.2
130°	21.3	23.9	37.2	47.9	47.9
132.5°	23.9	26.6	34.6	45.2	45.2
135°	23.9	26.6	29.2	42.5	45.2
137.5°	26.6	26.6	26.6	39.9	42.5
140°	26.6	26.6	23.9	34.6	37.2
142.5°	23.9	26.6	23.9	31.9	34.6
145°	23.9	26.6	26.6	29.2	31.9
147.5°	26.6	26.6	26.6	26.6	29.2
150°	26.6	26.6	26.6	26.6	26.6
152.5°	26.6	26.6	26.6	26.6	26.6
155°	26.6	29.2	29.2	29.2	26.6
157.5°	26.6	29.2	29.2	29.2	29.2
160°	26.6	29.2	29.2	29.2	29.2
162.5°	29.2	29.2	29.2	29.2	29.2
165°	29.2	29.2	29.2	29.2	29.2
167.5°	29.2	31.9	29.2	29.2	29.2
170°	29.2	29.2	29.2	26.6	26.6
172.5°	29.2	29.2	29.2	26.6	26.6
175°	29.2	29.2	26.6	23.9	23.9
177.5°	31.9	29.2	26.6	23.9	21.3
180°	26.6	26.6	26.6	26.6	26.6



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	13.3	50.5	130.3	156.9	162.2
110°	16.0	42.5	109.0	132.9	138.3



(END OF REPORT)