

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: P830771

Luminaire Tested: **OHBL-72SE-MFL-UNV-L930-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830771
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-72SE-MFL-UNV-L930-CD
Description: 72000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 3000K LEDS AND MEDIUM FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

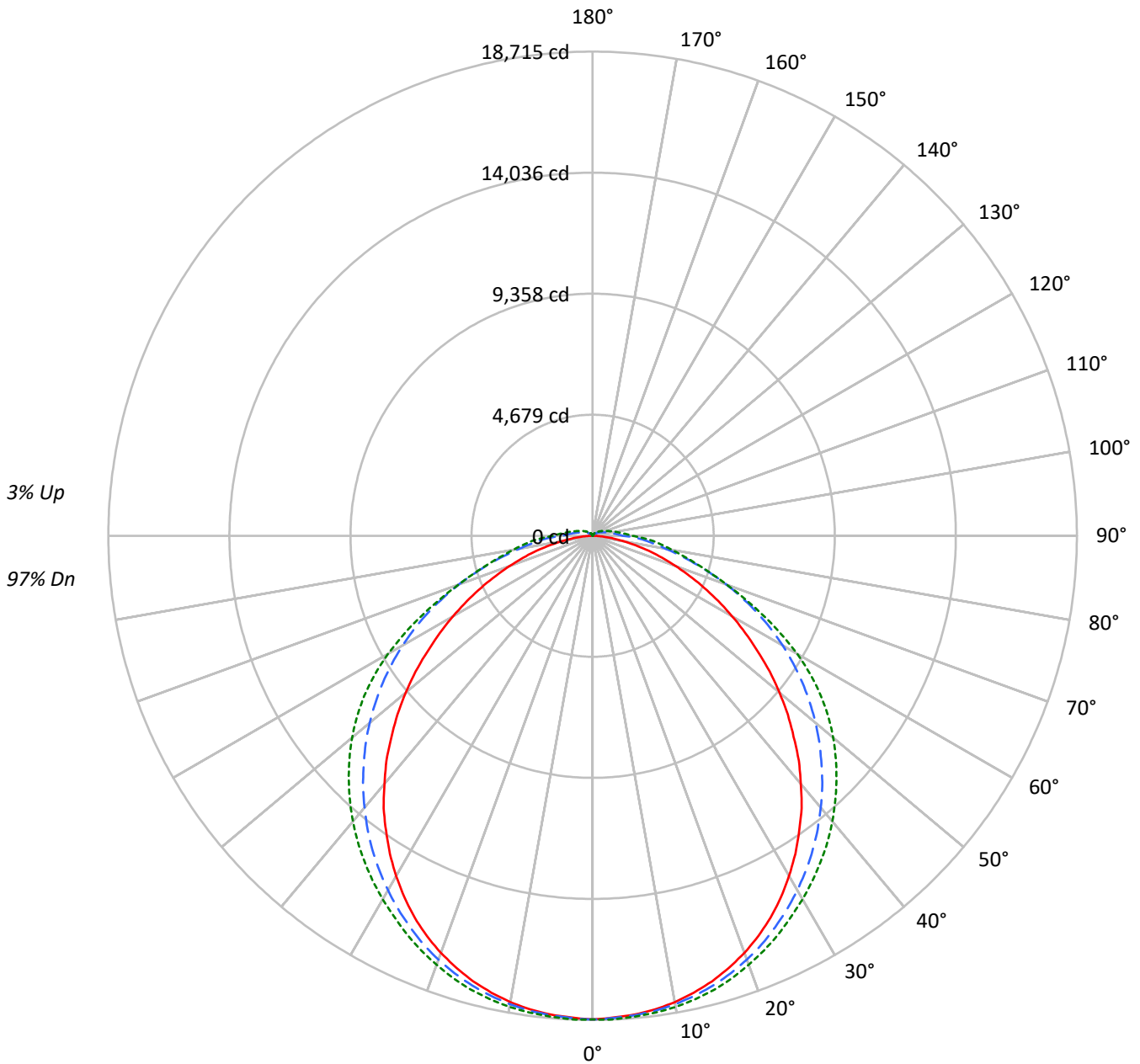
Lumens per Lamp: N/A
Luminaire Lumens: 55955.0 lumens
Efficiency: N/A
Efficacy: 135.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 413.7
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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	97																	
1	107	102	98	94	104	100	96	92	95	91	88	90	88	85	86	84	82	82	82	80																	
2	98	89	82	76	95	87	80	75	83	77	73	79	74	71	75	72	68	68	68	66																	
3	89	78	70	63	86	76	69	62	73	66	61	70	64	59	67	62	58	58	58	56																	
4	81	69	60	53	79	68	59	53	65	57	52	62	56	51	59	54	50	50	50	47																	
5	75	62	53	46	72	60	52	46	58	50	45	56	49	44	53	48	43	43	43	41																	
6	69	56	47	40	67	54	46	40	52	45	39	50	44	39	48	43	38	38	38	36																	
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	44	38	34	34	34	32																	
8	60	46	37	31	58	45	37	31	43	36	31	42	35	31	41	35	30	30	30	28																	
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	37	32	27	27	27	25																	
10	52	39	31	26	51	38	31	26	37	30	25	36	29	25	35	29	25	25	25	23																	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	29568	29568	29568
5°	29379	29288	29377
10°	29173	29030	29223
15°	28847	28721	29022
20°	28414	28343	28726
25°	27836	27871	28427
30°	27037	27359	28126
35°	26068	26816	27866
40°	24905	26187	27611
45°	23534	25504	27284
50°	22034	24813	26888
55°	20189	23968	26218
60°	18300	22972	24882
65°	16238	21700	22685
70°	14003	20078	20307
75°	11740	18205	18700
80°	8901	16850	18552
85°	5631	17514	20731



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1771.6	3.2
10°-20°	5082.4	9.1
20°-30°	7686.2	13.7
30°-40°	9227.4	16.5
40°-50°	9530.4	17.0
50°-60°	8574.4	15.3
60°-70°	6459.0	11.5
70°-80°	3900.1	7.0
80°-90°	1907.5	3.4
90°-100°	802.9	1.4
100°-110°	458.3	0.8
110°-120°	269.0	0.5
120°-130°	152.2	0.3
130°-140°	80.1	0.1
140°-150°	39.0	0.1
150°-160°	14.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	14540.2	26.0
0°-40°	23767.6	42.5
0°-60°	41872.5	74.8
0°-90°	54139.0	96.8
90°-120°	1530.2	2.7
90°-150°	1801.5	3.2
90°-180°	1816.0	3.2
0°-180°	55955.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	18696	18696	18696	18696	18696	
5°	18577	18628	18605	18678	18655	###
15°	17827	17914	17996	18147	18166	5026
25°	16280	16459	16692	16953	16994	7489
35°	13919	14244	14830	15278	15370	8702
45°	10986	11540	12505	13187	13329	8482
55°	7783	8589	9893	10638	10767	6978
65°	4750	5720	7001	7349	7266	4719
75°	2238	3212	4054	4159	4118	2387
85°	467	1231	2032	2311	2352	539
90°	0	480	1162	1464	1524	29
95°	23	325	869	1107	1148	19
105°	32	188	503	659	686	32
115°	37	105	311	416	435	37
125°	37	50	188	270	284	33
135°	32	41	96	165	183	25
145°	46	41	46	82	96	27
155°	46	50	46	41	46	14
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	18696.3	18696.3	18696.3	<i>18696.3</i>	18696.3
2.5°	<i>18641.4</i>	<i>18687.2</i>	<i>18659.7</i>	<i>18719.2</i>	<i>18714.6</i>
5°	18577.4	18627.7	18604.8	<i>18678.0</i>	18655.2
7.5°	18467.6	18522.5	18517.9	<i>18600.3</i>	18591.1
10°	18307.4	18366.9	18385.2	<i>18495.0</i>	18495.0
12.5°	18087.8	18165.6	18211.3	<i>18344.0</i>	18348.6
15°	17827.0	17913.9	17996.3	<i>18147.3</i>	18165.6
17.5°	17511.2	17621.1	17735.4	<i>17909.3</i>	17932.2
20°	17154.3	17277.9	17433.5	<i>17616.5</i>	17643.9
22.5°	16742.5	16888.9	17090.3	<i>17305.3</i>	17337.4
25°	16280.4	16458.8	16692.2	<i>16953.0</i>	16994.2
27.5°	15754.2	15960.1	16275.8	<i>16568.6</i>	16605.2
30°	15182.2	15424.7	15818.2	<i>16166.0</i>	16225.5
32.5°	14578.2	14857.3	15342.4	<i>15731.3</i>	15813.6
35°	13919.3	14244.2	14829.9	<i>15278.3</i>	15369.8
37.5°	13269.6	13626.5	14289.9	<i>14802.4</i>	14912.2
40°	12510.0	12953.8	13713.4	<i>14280.8</i>	14413.5
42.5°	11796.2	12276.6	13136.9	<i>13754.6</i>	13882.7
45°	10986.3	11539.9	12505.4	<i>13187.2</i>	13329.0
47.5°	10226.7	10826.1	11896.8	<i>12601.5</i>	12747.9
50°	9426.0	10084.9	11247.1	<i>11983.8</i>	12134.8
52.5°	8625.2	9334.4	10574.5	<i>11338.6</i>	11480.5
55°	7783.3	8588.6	9892.7	<i>10638.5</i>	10766.6
57.5°	7000.8	7851.9	9192.6	<i>9901.8</i>	9979.6
60°	6227.5	7110.7	8478.8	<i>9101.1</i>	9128.5
62.5°	5472.5	6401.4	7746.7	<i>8240.9</i>	8204.2
65°	4749.6	5719.6	7000.8	<i>7348.6</i>	7266.2
67.5°	4054.1	5056.2	6236.7	<i>6460.9</i>	6351.1
70°	3395.2	4411.0	5495.4	<i>5609.8</i>	5509.2
72.5°	2814.1	3797.8	4745.0	<i>4841.1</i>	4767.9
75°	2237.5	3212.1	4054.1	<i>4159.3</i>	4118.1
77.5°	1697.6	2644.8	3418.1	<i>3555.3</i>	3564.5
80°	1221.7	2127.7	2864.4	<i>3079.5</i>	3106.9
82.5°	805.3	1651.8	2402.2	<i>2676.8</i>	2718.0
85°	466.7	1230.9	2031.6	<i>2310.7</i>	2351.9
87.5°	201.3	887.7	1633.5	<i>1885.2</i>	1935.5
90°	0.0	480.4	1162.2	<i>1464.2</i>	1523.7
92.5°	13.7	398.1	997.5	<i>1272.0</i>	1322.4
95°	22.9	324.9	869.4	<i>1107.3</i>	1148.5
97.5°	27.5	274.5	755.0	<i>965.5</i>	1006.7
100°	27.5	237.9	654.3	<i>846.5</i>	883.1
102.5°	27.5	210.5	572.0	<i>741.3</i>	773.3
105°	32.0	187.6	503.3	<i>658.9</i>	686.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	36.6	123.5	347.8	466.7	485.0
115°	36.6	105.2	311.1	416.4	434.7
117.5°	41.2	91.5	274.5	375.2	388.9
120°	41.2	77.8	242.5	334.0	352.3
122.5°	41.2	64.1	215.1	302.0	315.7
125°	36.6	50.3	187.6	270.0	283.7
127.5°	32.0	41.2	160.1	242.5	256.2
130°	32.0	36.6	137.3	215.1	228.8
132.5°	32.0	41.2	114.4	187.6	205.9
135°	32.0	41.2	96.1	164.7	183.0
137.5°	32.0	41.2	77.8	141.8	160.1
140°	36.6	41.2	64.1	119.0	137.3
142.5°	41.2	41.2	50.3	100.7	114.4
145°	45.8	41.2	45.8	82.4	96.1
147.5°	45.8	45.8	45.8	64.1	77.8
150°	45.8	50.3	45.8	50.3	64.1
152.5°	45.8	50.3	45.8	41.2	50.3
155°	45.8	50.3	45.8	41.2	45.8
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	32.0	164.7	443.8	585.7	608.6
110°	32.0	146.4	393.5	521.6	544.5



(END OF REPORT)