

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: P830555

Luminaire Tested: **OHBL-48SE-MFL-UNV-L930-CD**

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P830555
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-48SE-MFL-UNV-L930-CD
Description: 48000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 3000K LEDS AND MEDIUM FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

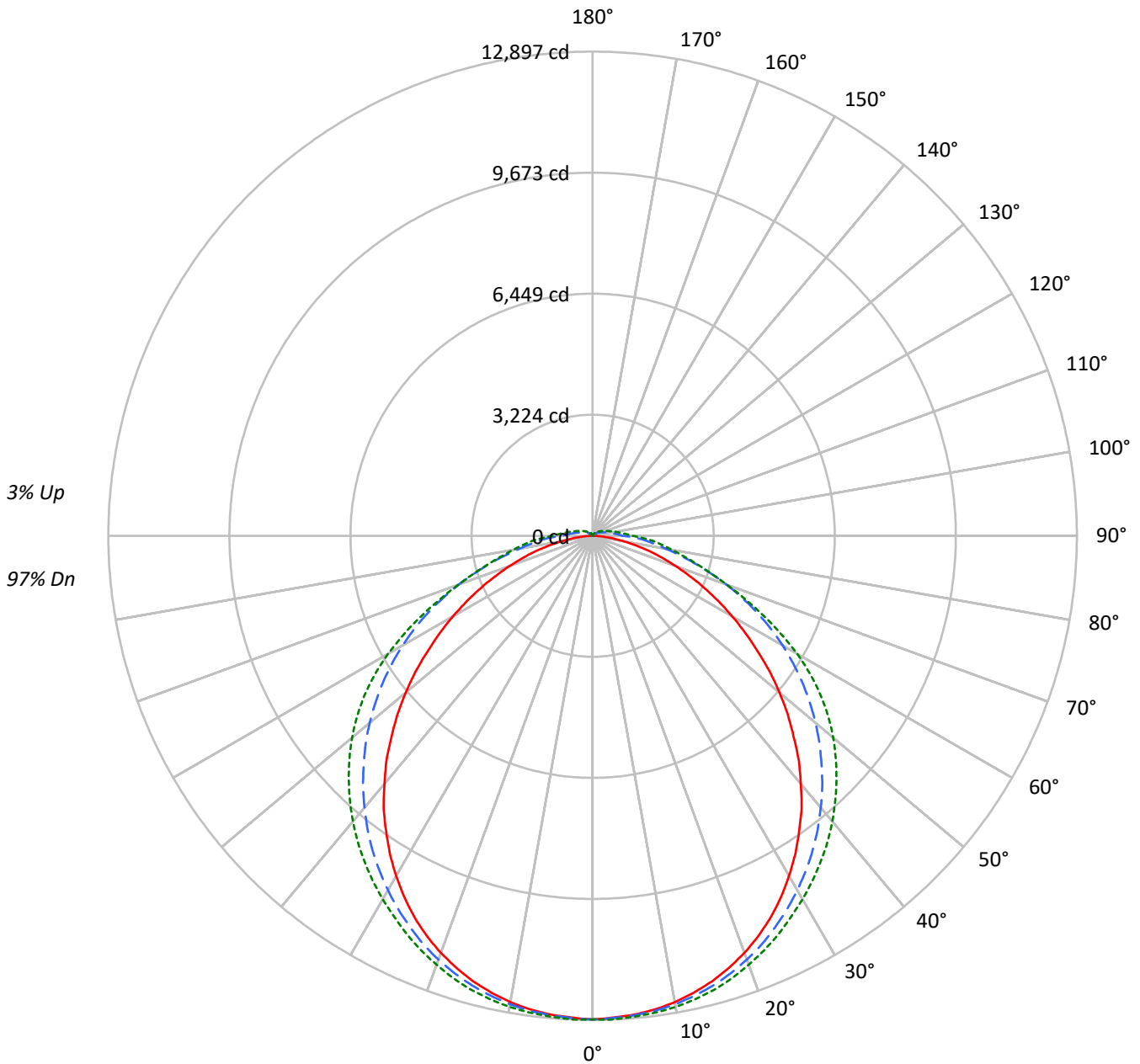
Lumens per Lamp: N/A
Luminaire Lumens: 38560.0 lumens
Efficiency: N/A
Efficacy: 133.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 288.8
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					20					
RC	80					70					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	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	99	99	99	97		
	1	107	102	98	94	104	100	96	92	95	91	88	90	88	85	86	84	82	82	82	82	82	82	80		
	2	98	89	82	76	95	87	80	75	83	77	73	79	74	71	75	72	68	68	68	68	68	68	66		
	3	89	78	70	63	86	76	69	62	73	66	61	70	64	59	67	62	58	58	58	58	58	58	56		
	4	81	69	60	53	79	68	59	53	65	57	52	62	56	51	59	54	50	50	50	50	50	50	47		
	5	75	62	53	46	72	60	52	46	58	50	45	56	49	44	53	48	43	43	43	43	43	43	41		
	6	69	56	47	40	67	54	46	40	52	45	39	50	44	39	48	43	38	38	38	38	38	38	36		
	7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	44	38	34	34	34	34	34	34	32		
	8	60	46	37	31	58	45	37	31	43	36	31	42	35	31	41	35	30	30	30	30	30	30	28		
	9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	37	32	27	27	27	27	27	27	25		
	10	52	39	31	26	51	38	31	26	37	30	25	36	29	25	35	29	25	25	25	25	25	25	23		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	22006	22006	22006
5°	21865	21788	21850
10°	21712	21586	21722
15°	21469	21346	21558
20°	21147	21055	21324
25°	20717	20695	21087
30°	20122	20304	20848
35°	19401	19889	20639
40°	18536	19411	20431
45°	17515	18891	20170
50°	16399	18365	19854
55°	15026	17722	19332
60°	13620	16965	18316
65°	12085	16001	16663
70°	10422	14775	14872
75°	8738	13357	13637
80°	6625	12304	13437
85°	4191	12674	14820



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1220.8	3.2
10°-20°	3502.4	9.1
20°-30°	5296.8	13.7
30°-40°	6358.8	16.5
40°-50°	6567.7	17.0
50°-60°	5908.8	15.3
60°-70°	4451.0	11.5
70°-80°	2687.7	7.0
80°-90°	1314.5	3.4
90°-100°	553.3	1.4
100°-110°	315.9	0.8
110°-120°	185.4	0.5
120°-130°	104.9	0.3
130°-140°	55.2	0.1
140°-150°	26.8	0.1
150°-160°	10.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	10020.0	26.0
0°-40°	16378.9	42.5
0°-60°	28855.4	74.8
0°-90°	37308.6	96.8
90°-120°	1054.5	2.7
90°-150°	1241.5	3.2
90°-180°	1251.0	3.2
0°-180°	38560.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12884	12884	12884	12884	12884	
5°	12802	12837	12821	12872	12856	###
15°	12285	12345	12402	12506	12518	3464
25°	11219	11342	11503	11683	11711	5161
35°	9592	9816	10220	10529	10592	5996
45°	7571	7952	8618	9088	9185	5845
55°	5364	5919	6817	7331	7420	4809
65°	3273	3942	4824	5064	5007	3252
75°	1542	2214	2794	2866	2838	1645
85°	322	848	1400	1592	1621	372
90°	0	331	801	1009	1050	20
95°	16	224	599	763	792	13
105°	22	129	347	454	473	22
115°	25	72	214	287	300	26
125°	25	35	129	186	196	23
135°	22	28	66	114	126	17
145°	32	28	32	57	66	19
155°	32	35	32	28	32	10
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°	12884.1	12884.1	12884.1	<i>12884.1</i>	12884.1
2.5°	<i>12846.3</i>	<i>12877.8</i>	<i>12858.9</i>	<i>12899.9</i>	<i>12896.7</i>
5°	12802.1	12836.8	12821.1	<i>12871.5</i>	12855.7
7.5°	12726.5	12764.3	12761.1	<i>12817.9</i>	12811.6
10°	12616.1	12657.1	12669.7	<i>12745.4</i>	12745.4
12.5°	12464.7	12518.3	12549.9	<i>12641.3</i>	12644.5
15°	12285.0	12344.9	12401.7	<i>12505.7</i>	12518.3
17.5°	12067.4	12143.1	12221.9	<i>12341.8</i>	12357.5
20°	11821.5	11906.6	12013.8	<i>12140.0</i>	12158.9
22.5°	11537.7	11638.6	11777.3	<i>11925.5</i>	11947.6
25°	11219.2	11342.2	11503.0	<i>11682.7</i>	11711.1
27.5°	10856.6	10998.5	11216.1	<i>11417.9</i>	11443.1
30°	10462.4	10629.6	10900.7	<i>11140.4</i>	11181.4
32.5°	10046.2	10238.6	10572.8	<i>10840.8</i>	10897.6
35°	9592.1	9816.0	10219.6	<i>10528.7</i>	10591.7
37.5°	9144.4	9390.3	9847.6	<i>10200.7</i>	10276.4
40°	8620.9	8926.8	9450.2	<i>9841.3</i>	9932.7
42.5°	8129.0	8460.1	9052.9	<i>9478.6</i>	9566.9
45°	7570.9	7952.5	8617.8	<i>9087.6</i>	9185.4
47.5°	7047.5	7460.6	8198.4	<i>8684.0</i>	8784.9
50°	6495.7	6949.7	7750.7	<i>8258.3</i>	8362.4
52.5°	5943.9	6432.6	7287.1	<i>7813.7</i>	7911.5
55°	5363.7	5918.6	6817.3	<i>7331.3</i>	7419.6
57.5°	4824.5	5411.0	6334.9	<i>6823.6</i>	6877.2
60°	4291.6	4900.1	5842.9	<i>6271.8</i>	6290.7
62.5°	3771.3	4411.4	5338.4	<i>5679.0</i>	5653.8
65°	3273.1	3941.5	4824.5	<i>5064.1</i>	5007.3
67.5°	2793.8	3484.3	4297.9	<i>4452.4</i>	4376.7
70°	2339.7	3039.7	3787.0	<i>3865.9</i>	3796.5
72.5°	1939.2	2617.2	3269.9	<i>3336.1</i>	3285.7
75°	1541.9	2213.6	2793.8	<i>2866.3</i>	2837.9
77.5°	1169.9	1822.6	2355.5	<i>2450.1</i>	2456.4
80°	841.9	1466.3	1973.9	<i>2122.1</i>	2141.0
82.5°	555.0	1138.3	1655.4	<i>1844.6</i>	1873.0
85°	321.6	848.2	1400.0	<i>1592.4</i>	1620.8
87.5°	138.7	611.7	1125.7	<i>1299.1</i>	1333.8
90°	0.0	331.1	800.9	<i>1009.0</i>	1050.0
92.5°	9.5	274.3	687.4	<i>876.6</i>	911.3
95°	15.8	223.9	599.1	<i>763.1</i>	791.5
97.5°	18.9	189.2	520.3	<i>665.3</i>	693.7
100°	18.9	164.0	450.9	<i>583.3</i>	608.6
102.5°	18.9	145.0	394.2	<i>510.8</i>	532.9
105°	22.1	129.3	346.9	<i>454.1</i>	473.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	25.2	85.1	239.6	321.6	334.2
115°	25.2	72.5	214.4	286.9	299.6
117.5°	28.4	63.1	189.2	258.6	268.0
120°	28.4	53.6	167.1	230.2	242.8
122.5°	28.4	44.1	148.2	208.1	217.6
125°	25.2	34.7	129.3	186.0	195.5
127.5°	22.1	28.4	110.4	167.1	176.6
130°	22.1	25.2	94.6	148.2	157.7
132.5°	22.1	28.4	78.8	129.3	141.9
135°	22.1	28.4	66.2	113.5	126.1
137.5°	22.1	28.4	53.6	97.8	110.4
140°	25.2	28.4	44.1	82.0	94.6
142.5°	28.4	28.4	34.7	69.4	78.8
145°	31.5	28.4	31.5	56.8	66.2
147.5°	31.5	31.5	31.5	44.1	53.6
150°	31.5	34.7	31.5	34.7	44.1
152.5°	31.5	34.7	31.5	28.4	34.7
155°	31.5	34.7	31.5	28.4	31.5
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°	22.1	113.5	305.9	403.6	419.4
110°	22.1	100.9	271.2	359.5	375.2



(END OF REPORT)