

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: P827819

Luminaire Tested: **OHBL-48SE-MFL-UNV-L930-CD-UPL24**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P827819
REPORT IS A COMBINATION OF REPORTS P826259 AND G3-2310-221-6
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-UPL24
Description:
Light Source: -
Ballast/Driver: -

Summary

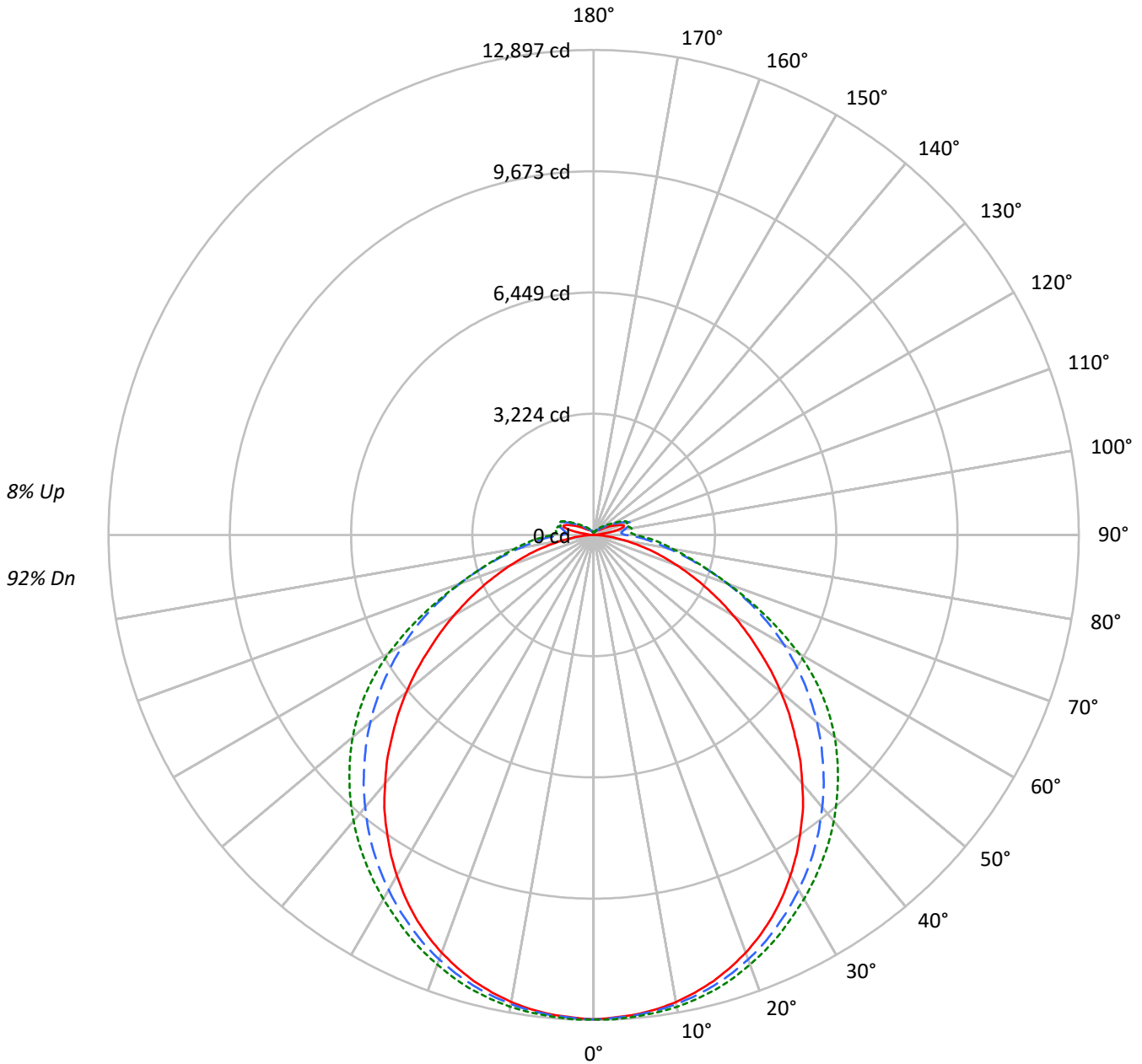
Lumens per Lamp: N/A
Luminaire Lumens: 40516.3 lumens
Efficiency: N/A
Efficacy: 132.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')
CIE Type: Direct

Input Watts (W): 306.2
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	117	117	117	117	114	114	114	114	107	107	107	100	100	100	95	95	95	92																			
1	106	101	97	93	103	98	94	91	93	89	86	87	85	82	83	80	78	76																			
2	97	88	81	75	93	86	79	74	81	75	71	76	72	68	72	69	65	63																			
3	88	77	69	63	85	75	68	61	71	65	59	67	62	57	64	59	55	53																			
4	81	68	60	53	78	67	58	52	63	56	51	60	54	49	57	52	48	45																			
5	74	61	52	45	71	60	51	45	57	49	44	54	47	42	51	46	41	39																			
6	68	55	46	40	66	54	45	39	51	44	38	49	42	37	46	41	36	34																			
7	63	50	41	35	61	49	40	35	46	39	34	44	38	33	42	37	32	30																			
8	59	45	37	31	57	44	36	31	42	35	30	41	34	29	39	33	29	27																			
9	55	42	33	28	53	41	33	28	39	32	27	37	31	27	36	30	26	24																			
10	52	38	31	25	50	38	30	25	36	29	25	35	28	24	33	28	24	22																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	22006	22006	22006
5°	21759	21788	21957
10°	21501	21586	21934
15°	21156	21346	21877
20°	20732	21055	21751
25°	20201	20695	21626
30°	19508	20304	21505
35°	18691	19889	21423
40°	17733	19411	21356
45°	16624	18891	21250
50°	15422	18364	21111
55°	13975	17722	20785
60°	12495	16965	19964
65°	10892	16001	18489
70°	9165	14775	16911
75°	7409	13357	16082
80°	5284	12305	16847
85°	2941	12674	21120



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1220.8	3.0
10°-20°	3502.4	8.6
20°-30°	5296.8	13.1
30°-40°	6358.8	15.7
40°-50°	6567.6	16.2
50°-60°	5908.8	14.6
60°-70°	4451.0	11.0
70°-80°	2687.7	6.6
80°-90°	1319.5	3.3
90°-100°	740.7	1.8
100°-110°	966.4	2.4
110°-120°	743.5	1.8
120°-130°	372.6	0.9
130°-140°	189.2	0.5
140°-150°	104.5	0.3
150°-160°	55.2	0.1
160°-170°	23.5	0.1
170°-180°	7.1	0.0
0°-30°	10020.0	24.7
0°-40°	16378.8	40.4
0°-60°	28855.3	71.2
0°-90°	37313.5	92.1
90°-120°	2450.7	6.0
90°-150°	3117.0	7.7
90°-180°	3203.0	7.9
0°-180°	40516.3	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°	4	359	839	1059	1106	23
95°	59	314	738	947	1000	146
105°	833	931	1029	940	919	791
115°	585	638	780	850	858	590
125°	298	322	423	479	486	279
135°	184	193	237	286	300	145
145°	149	149	154	180	191	93
155°	125	130	128	126	129	54
165°	81	82	82	82	82	23
175°	73	74	74	74	74	7
180°	73	73	73	73	73	



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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°	12726.4	12764.3	12761.2	<i>12817.9</i>	12811.6
10°	12616.1	12657.0	12669.7	<i>12745.4</i>	12745.4
12.5°	12464.7	12518.3	12549.9	<i>12641.3</i>	12644.4
15°	12285.0	12344.9	12401.7	<i>12505.7</i>	12518.3
17.5°	12067.4	12143.1	12221.9	<i>12341.7</i>	12357.5
20°	11821.5	11906.6	12013.8	<i>12140.0</i>	12158.9
22.5°	11537.7	11638.5	11777.3	<i>11925.5</i>	11947.6
25°	11219.2	11342.1	11503.0	<i>11682.7</i>	11711.1
27.5°	10856.6	10998.5	11216.0	<i>11417.9</i>	11443.1
30°	10462.4	10629.5	10900.7	<i>11140.4</i>	11181.4
32.5°	10046.2	10238.5	10572.8	<i>10840.8</i>	10897.5
35°	9592.1	9816.0	10219.6	<i>10528.6</i>	10591.7
37.5°	9144.4	9390.3	9847.5	<i>10200.7</i>	10276.3
40°	8621.0	8926.8	9450.2	<i>9841.2</i>	9932.6
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>	9185.3
47.5°	7047.5	7460.5	8198.4	<i>8684.0</i>	8784.9
50°	6495.7	6949.7	7750.6	<i>8258.3</i>	8362.4
52.5°	5943.8	6432.6	7287.1	<i>7813.7</i>	7911.5
55°	5363.6	5918.6	6817.3	<i>7331.3</i>	7419.5
57.5°	4824.5	5410.9	6334.8	<i>6823.6</i>	6877.2
60°	4291.5	4900.1	5843.0	<i>6271.8</i>	6290.7
62.5°	3771.3	4411.4	5338.4	<i>5678.9</i>	5653.7
65°	3273.0	3941.5	4824.5	<i>5064.1</i>	5007.3
67.5°	2793.8	3484.3	4297.8	<i>4452.4</i>	4376.7
70°	2339.7	3039.7	3787.0	<i>3865.9</i>	3796.5
72.5°	1939.3	2617.1	3269.9	<i>3336.2</i>	3285.6
75°	1541.9	2213.5	2793.8	<i>2866.3</i>	2837.9
77.5°	1169.8	1822.5	2355.5	<i>2450.1</i>	2456.4
80°	841.9	1466.2	1974.0	<i>2122.1</i>	2141.0
82.5°	555.0	1138.3	1655.5	<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>1299.2</i>	1333.8
90°	4.0	358.6	838.9	<i>1059.2</i>	1105.8
92.5°	23.2	310.7	745.6	<i>959.1</i>	1004.3
95°	58.6	313.6	738.2	<i>947.4</i>	1000.0
97.5°	236.4	424.5	773.3	<i>971.7</i>	1026.7
100°	465.1	637.6	833.2	<i>987.5</i>	1020.0
102.5°	708.4	830.5	893.7	<i>958.6</i>	974.3
105°	832.8	931.1	1029.1	<i>939.8</i>	919.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	678.4	748.0	889.6	952.9	939.7
115°	584.6	637.5	779.5	850.4	858.1
117.5°	506.9	542.4	671.8	740.4	750.6
120°	424.5	458.6	579.3	638.4	646.2
122.5°	360.6	386.1	494.9	553.3	557.9
125°	298.4	322.4	422.7	478.7	485.7
127.5°	253.3	270.1	360.1	417.7	426.4
130°	223.3	233.0	310.4	364.8	375.1
132.5°	200.7	212.7	268.8	322.4	334.2
135°	183.7	193.3	236.8	285.7	299.9
137.5°	170.0	178.7	208.8	255.4	268.0
140°	161.0	167.4	187.2	226.7	240.1
142.5°	153.7	156.9	166.4	202.7	212.2
145°	148.7	148.8	154.4	180.4	190.7
147.5°	141.5	144.7	146.3	160.5	170.0
150°	135.8	140.6	139.8	143.8	154.1
152.5°	130.1	134.9	134.2	131.8	138.1
155°	125.3	130.1	128.5	126.2	129.3
157.5°	89.7	91.3	93.0	93.8	93.8
160°	86.5	87.3	88.9	89.7	89.7
162.5°	83.3	84.1	84.9	85.7	85.7
165°	80.8	81.6	82.4	82.4	82.4
167.5°	78.4	78.4	79.2	80.0	80.0
170°	76.0	76.8	76.8	77.6	77.6
172.5°	74.4	75.2	75.2	75.2	76.0
175°	72.8	73.6	73.6	74.4	74.4
177.5°	72.8	72.8	72.8	72.8	72.8
180°	72.8	72.8	72.8	72.8	72.8



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	836.1	930.7	1060.0	992.9	910.0
110°	773.0	859.1	993.0	1019.1	955.6



(END OF REPORT)