

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: P828119

Luminaire Tested: **OHBL-48SE-MFL-UNV-L935-CD-UPL24**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P828119
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-L935-CD-UPL24
Description:
Light Source: -
Ballast/Driver: -

Summary

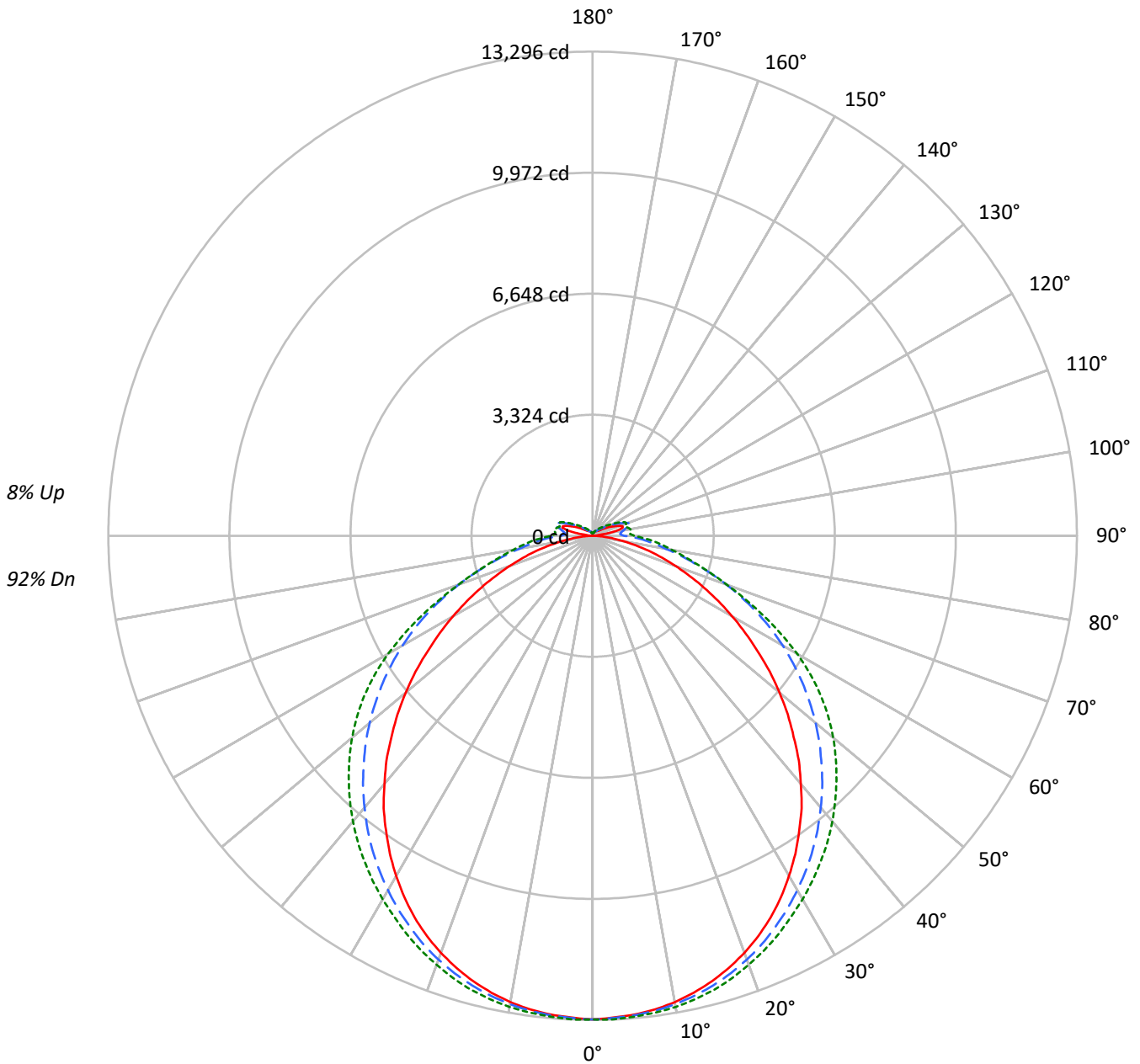
Lumens per Lamp: N/A
Luminaire Lumens: 41769.4 lumens
Efficiency: N/A
Efficacy: 136.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')
CIE Type: Direct

Input Watts (W): 306.2
Input Voltage (V): NR
Input Current (Ain): 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°	22687	22687	22687
5°	22432	22462	22636
10°	22166	22253	22613
15°	21810	22006	22554
20°	21373	21707	22424
25°	20826	21335	22295
30°	20111	20932	22170
35°	19269	20505	22086
40°	18282	20011	22016
45°	17139	19475	21907
50°	15899	18932	21764
55°	14408	18270	21428
60°	12882	17490	20582
65°	11228	16496	19061
70°	9449	15232	17434
75°	7639	13770	16579
80°	5447	12685	17368
85°	3032	13066	21773



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1258.6	3.0
10°-20°	3610.7	8.6
20°-30°	5460.6	13.1
30°-40°	6555.5	15.7
40°-50°	6770.8	16.2
50°-60°	6091.6	14.6
60°-70°	4588.7	11.0
70°-80°	2770.8	6.6
80°-90°	1360.3	3.3
90°-100°	763.6	1.8
100°-110°	996.3	2.4
110°-120°	766.5	1.8
120°-130°	384.1	0.9
130°-140°	195.0	0.5
140°-150°	107.7	0.3
150°-160°	56.9	0.1
160°-170°	24.2	0.1
170°-180°	7.4	0.0
0°-30°	10329.9	24.7
0°-40°	16885.4	40.4
0°-60°	29747.7	71.2
0°-90°	38467.5	92.1
90°-120°	2526.5	6.0
90°-150°	3213.4	7.7
90°-180°	3302.0	7.9
0°-180°	41769.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13283	13283	13283	13283	13283	
5°	13198	13234	13218	13270	13253	###
15°	12665	12727	12785	12892	12906	3571
25°	11566	11693	11859	12044	12073	5320
35°	9889	10120	10536	10854	10919	6182
45°	7805	8198	8884	9369	9469	6026
55°	5530	6102	7028	7558	7649	4958
65°	3374	4063	4974	5221	5162	3352
75°	1590	2282	2880	2955	2926	1696
85°	332	874	1443	1642	1671	383
90°	4	370	865	1092	1140	24
95°	60	323	761	977	1031	151
105°	859	960	1061	969	948	816
115°	603	657	804	877	885	608
125°	308	332	436	494	501	288
135°	189	199	244	294	309	150
145°	153	153	159	186	197	96
155°	129	134	132	130	133	55
165°	83	84	85	85	85	24
175°	75	76	76	77	77	7
180°	75	75	75	75	75	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13282.6	13282.6	13282.6	<i>13282.6</i>	13282.6
2.5°	<i>13243.6</i>	<i>13276.1</i>	<i>13256.6</i>	<i>13298.8</i>	<i>13295.6</i>
5°	13198.1	13233.8	13217.6	<i>13269.6</i>	13253.3
7.5°	13120.0	13159.1	13155.8	<i>13214.3</i>	13207.8
10°	13006.2	13048.5	13061.5	<i>13139.6</i>	13139.6
12.5°	12850.2	12905.5	12938.0	<i>13032.3</i>	13035.5
15°	12664.9	12726.7	12785.2	<i>12892.5</i>	12905.5
17.5°	12440.7	12518.7	12599.9	<i>12723.4</i>	12739.7
20°	12187.1	12274.8	12385.3	<i>12515.4</i>	12534.9
22.5°	11894.5	11998.5	12141.6	<i>12294.3</i>	12317.1
25°	11566.2	11692.9	11858.8	<i>12044.0</i>	12073.3
27.5°	11192.3	11338.7	11562.9	<i>11771.0</i>	11797.0
30°	10786.0	10958.2	11237.8	<i>11484.9</i>	11527.2
32.5°	10356.9	10555.2	10899.8	<i>11176.1</i>	11234.6
35°	9888.8	10119.6	10535.7	<i>10854.2</i>	10919.2
37.5°	9427.2	9680.8	10152.1	<i>10516.2</i>	10594.2
40°	8887.6	9202.9	9742.5	<i>10145.6</i>	10239.8
42.5°	8380.4	8721.8	9332.9	<i>9771.8</i>	9862.8
45°	7805.1	8198.4	8884.3	<i>9368.7</i>	9469.4
47.5°	7265.4	7691.2	8451.9	<i>8952.6</i>	9056.6
50°	6696.6	7164.7	7990.3	<i>8513.8</i>	8621.0
52.5°	6127.7	6631.5	7512.5	<i>8055.3</i>	8156.2
55°	5529.5	6101.7	7028.2	<i>7558.0</i>	7649.0
57.5°	4973.7	5578.2	6530.8	<i>7034.7</i>	7089.9
60°	4424.3	5051.7	6023.7	<i>6465.8</i>	6485.2
62.5°	3887.9	4547.8	5503.5	<i>5854.6</i>	5828.6
65°	3374.2	4063.4	4973.7	<i>5220.8</i>	5162.2
67.5°	2880.2	3592.1	4430.8	<i>4590.1</i>	4512.1
70°	2412.1	3133.8	3904.2	<i>3985.4</i>	3913.9
72.5°	1999.2	2698.1	3371.0	<i>3439.3</i>	3387.2
75°	1589.6	2282.0	2880.2	<i>2954.9</i>	2925.7
77.5°	1206.0	1878.9	2428.3	<i>2525.8</i>	2532.3
80°	867.9	1511.6	2035.0	<i>2187.8</i>	2207.2
82.5°	572.2	1173.5	1706.7	<i>1901.7</i>	1930.9
85°	331.6	874.4	1443.3	<i>1641.7</i>	1670.9
87.5°	143.0	630.7	1160.5	<i>1339.3</i>	1375.1
90°	4.2	369.7	864.8	<i>1091.9</i>	1140.0
92.5°	23.9	320.3	768.7	<i>988.8</i>	1035.3
95°	60.4	323.3	761.0	<i>976.7</i>	1030.9
97.5°	243.7	437.6	797.2	<i>1001.8</i>	1058.5
100°	479.5	657.3	859.0	<i>1018.1</i>	1051.6
102.5°	730.3	856.2	921.3	<i>988.3</i>	1004.4
105°	858.6	959.9	1060.9	<i>968.9</i>	947.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	699.3	771.1	917.1	982.4	968.8
115°	602.7	657.3	803.6	876.7	884.7
117.5°	522.6	559.2	692.6	763.2	773.8
120°	437.6	472.8	597.3	658.2	666.2
122.5°	371.8	398.0	510.2	570.4	575.2
125°	307.7	332.4	435.8	493.5	500.8
127.5°	261.1	278.4	371.2	430.6	439.6
130°	230.3	240.2	320.0	376.1	386.7
132.5°	206.9	219.3	277.1	332.4	344.6
135°	189.4	199.2	244.1	294.5	309.2
137.5°	175.3	184.2	215.3	263.2	276.2
140°	166.0	172.6	193.0	233.7	247.5
142.5°	158.4	161.8	171.6	209.0	218.8
145°	153.3	153.4	159.2	186.0	196.6
147.5°	145.8	149.2	150.8	165.5	175.3
150°	140.0	144.9	144.2	148.2	158.8
152.5°	134.2	139.1	138.3	135.9	142.4
155°	129.2	134.1	132.5	130.1	133.3
157.5°	92.5	94.2	95.8	96.7	96.7
160°	89.2	90.0	91.7	92.5	92.5
162.5°	85.8	86.7	87.5	88.3	88.3
165°	83.3	84.2	85.0	85.0	85.0
167.5°	80.8	80.8	81.7	82.5	82.5
170°	78.3	79.2	79.2	80.0	80.0
172.5°	76.7	77.5	77.5	77.5	78.3
175°	75.0	75.8	75.8	76.7	76.7
177.5°	75.0	75.0	75.0	75.0	75.0
180°	75.0	75.0	75.0	75.0	75.0



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	861.9	959.5	1092.8	1023.6	938.2
110°	796.9	885.7	1023.8	1050.6	985.2



(END OF REPORT)