

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: P828120

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P828120
REPORT IS A COMBINATION OF REPORTS P826260 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-N-UNV-L935-CD-UPL24
Description:
Light Source: -
Ballast/Driver: -

Summary

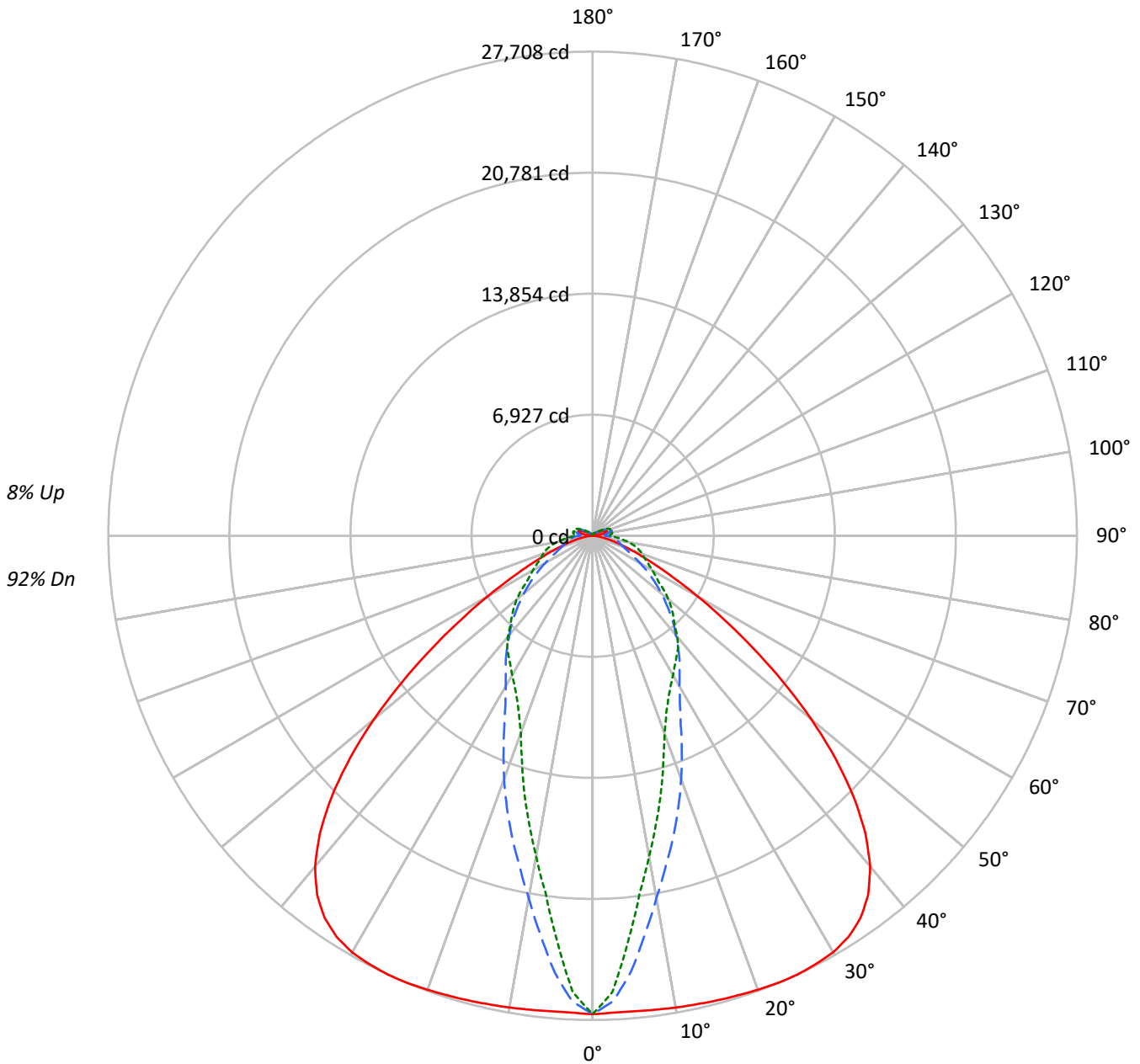
Lumens per Lamp: N/A
Luminaire Lumens: 42415.3 lumens
Efficiency: N/A
Efficacy: 138.5 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')
CIE Type: Direct

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	108	103	99	96	104	100	97	93	95	92	89	89	87	85	85	83	81	79																			
2	99	92	85	80	96	89	83	79	84	80	76	80	76	73	76	73	70	68																			
3	91	82	74	69	88	80	73	67	76	70	65	72	67	63	68	65	61	59																			
4	84	74	66	60	82	72	64	59	68	62	57	65	60	55	62	58	54	52																			
5	78	67	58	52	76	65	57	52	62	56	51	59	54	49	57	52	48	46																			
6	73	61	53	47	71	59	52	46	57	50	45	54	49	44	52	47	43	41																			
7	68	56	48	42	66	54	47	42	52	46	41	50	44	40	48	43	39	37																			
8	64	51	43	38	62	50	43	38	48	42	37	46	41	36	45	40	36	34																			
9	60	47	40	35	58	47	39	34	45	38	34	43	37	33	42	37	33	31																			
10	56	44	37	32	55	43	36	32	42	35	31	40	35	31	39	34	30	28																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	46751	46751	46751
5°	46430	42575	39777
10°	46725	35862	32051
15°	47402	30671	26437
20°	48484	25933	21493
25°	49891	21466	18935
30°	51318	18492	17692
35°	52058	16853	16962
40°	50811	15223	16204
45°	46376	13757	15121
50°	38767	12154	14324
55°	29134	10646	12888
60°	20138	9130	12509
65°	13307	7863	12466
70°	8868	7379	13403
75°	5934	7610	14852
80°	3842	8428	16255
85°	1977	10542	19383



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2304.1	5.4
10°-20°	5420.4	12.8
20°-30°	6794.4	16.0
30°-40°	7209.6	17.0
40°-50°	6518.6	15.4
50°-60°	4726.4	11.1
60°-70°	2966.1	7.0
70°-80°	1962.8	4.6
80°-90°	1136.0	2.7
90°-100°	741.0	1.7
100°-110°	1048.9	2.5
110°-120°	808.7	1.9
120°-130°	389.0	0.9
130°-140°	190.1	0.4
140°-150°	108.5	0.3
150°-160°	59.0	0.1
160°-170°	24.2	0.1
170°-180°	7.4	0.0
0°-30°	14518.9	34.2
0°-40°	21728.5	51.2
0°-60°	32973.6	77.7
0°-90°	39038.5	92.0
90°-120°	2598.6	6.1
90°-150°	3286.2	7.7
90°-180°	3377.0	8.0
0°-180°	42415.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	27372	27372	27372	27372	27372	
5°	27317	26616	25054	23892	23290	###
15°	27526	22435	17819	15847	15128	7806
25°	27708	17348	11932	10590	10254	12801
35°	26716	11533	8659	8388	8386	16608
45°	21120	7305	6276	6427	6536	16089
55°	11181	4528	4095	4442	4601	10103
65°	3999	2626	2371	3038	3376	4161
75°	1235	1415	1592	2472	2621	1376
85°	216	586	1164	1620	1488	259
90°	4	273	714	1002	1016	17
95°	55	264	737	998	1059	146
105°	857	941	1136	1074	1049	814
115°	605	663	874	946	948	610
125°	313	338	451	489	484	291
135°	193	201	241	279	281	152
145°	152	158	166	187	186	96
155°	128	137	142	145	140	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°	27372.0	27372.0	27372.0	27372.0	27372.0
2.5°	27314.8	27158.4	26671.2	26374.2	26124.2
5°	27317.3	26616.5	25053.5	23891.6	23289.8
7.5°	27356.4	25798.5	22982.4	21286.5	20624.8
10°	27416.3	24785.2	21049.4	19241.4	18624.0
12.5°	27460.6	23644.1	19348.3	17490.8	16813.5
15°	27525.8	22435.3	17819.0	15847.0	15127.9
17.5°	27585.7	21296.9	16308.1	14247.4	13447.7
20°	27645.6	20069.8	14797.1	12673.9	12014.8
22.5°	27702.9	18775.1	13322.6	11452.1	11001.4
25°	27708.1	17347.5	11931.5	10589.8	10253.8
27.5°	27640.3	15867.8	10803.4	9868.2	9659.8
30°	27523.1	14432.4	9928.1	9347.2	9198.7
32.5°	27231.3	12968.3	9250.8	8844.4	8758.4
35°	26715.5	11532.9	8659.4	8388.5	8385.9
37.5°	25902.8	10259.0	8018.6	7971.7	8029.0
40°	24701.8	9144.0	7411.6	7536.6	7536.6
42.5°	23099.6	8174.9	6861.9	6989.6	6955.7
45°	21119.8	7304.8	6275.8	6426.8	6536.2
47.5°	18824.6	6538.8	5676.6	5968.3	6119.4
50°	16328.9	5809.4	5129.5	5502.0	5673.9
52.5°	13713.3	5134.7	4595.4	5022.7	5160.8
55°	11181.2	4527.7	4095.3	4441.8	4600.7
57.5°	8888.7	3949.3	3605.5	3933.8	4262.0
60°	6916.6	3451.8	3144.4	3613.3	3941.6
62.5°	5283.2	3008.9	2711.9	3313.8	3642.0
65°	3998.8	2626.0	2370.7	3037.6	3376.2
67.5°	3014.2	2295.1	2104.9	2837.0	3167.8
70°	2263.8	1974.7	1891.3	2711.9	3008.9
72.5°	1672.5	1680.3	1722.0	2602.5	2829.2
75°	1234.8	1414.6	1591.8	2472.2	2620.8
77.5°	883.2	1172.3	1474.5	2315.9	2368.1
80°	612.2	956.1	1352.1	2110.2	2065.8
82.5°	382.9	765.9	1242.7	1883.5	1761.1
85°	216.2	586.2	1164.5	1620.4	1487.5
87.5°	96.4	437.7	1018.6	1263.5	1180.1
90°	4.2	273.2	713.9	1002.5	1016.2
92.5°	19.4	240.7	682.6	955.1	992.0
95°	54.6	264.4	737.3	997.6	1059.1
97.5°	237.2	393.6	818.3	1066.1	1124.8
100°	475.7	623.8	907.4	1107.0	1140.6
102.5°	729.1	831.8	986.5	1089.5	1103.7
105°	856.7	941.3	1135.8	1074.0	1048.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	699.4	771.9	995.7	1062.4	1048.8
115°	605.3	663.2	874.2	945.6	948.3
117.5°	524.6	564.5	752.8	817.1	820.5
120°	439.6	480.0	643.8	694.3	689.3
122.5°	373.8	404.6	539.8	582.5	574.8
125°	312.9	338.3	451.0	489.3	484.2
127.5°	267.0	283.0	377.3	414.7	411.2
130°	236.2	248.0	318.9	356.2	357.0
132.5°	210.3	221.2	274.0	313.8	313.0
135°	192.8	201.2	241.0	279.1	280.8
137.5°	178.6	188.8	214.7	251.1	251.1
140°	166.1	174.6	194.4	227.3	228.2
142.5°	157.8	163.8	177.5	205.3	205.3
145°	152.1	158.0	165.8	187.4	185.7
147.5°	144.6	153.2	157.4	172.1	169.5
150°	138.8	148.2	150.8	159.4	157.6
152.5°	132.9	142.4	144.9	150.9	148.3
155°	127.9	137.4	141.7	145.1	139.9
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°	860.0	949.3	1173.5	1120.8	1037.2
110°	797.6	878.1	1106.2	1138.5	1075.1



(END OF REPORT)