

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: P826619

Luminaire Tested: **OHBL-48SE-MFL-UNV-L830-CD-UPL24**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P826619
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-L830-CD-UPL24
Description:
Light Source: -
Ballast/Driver: -

Summary

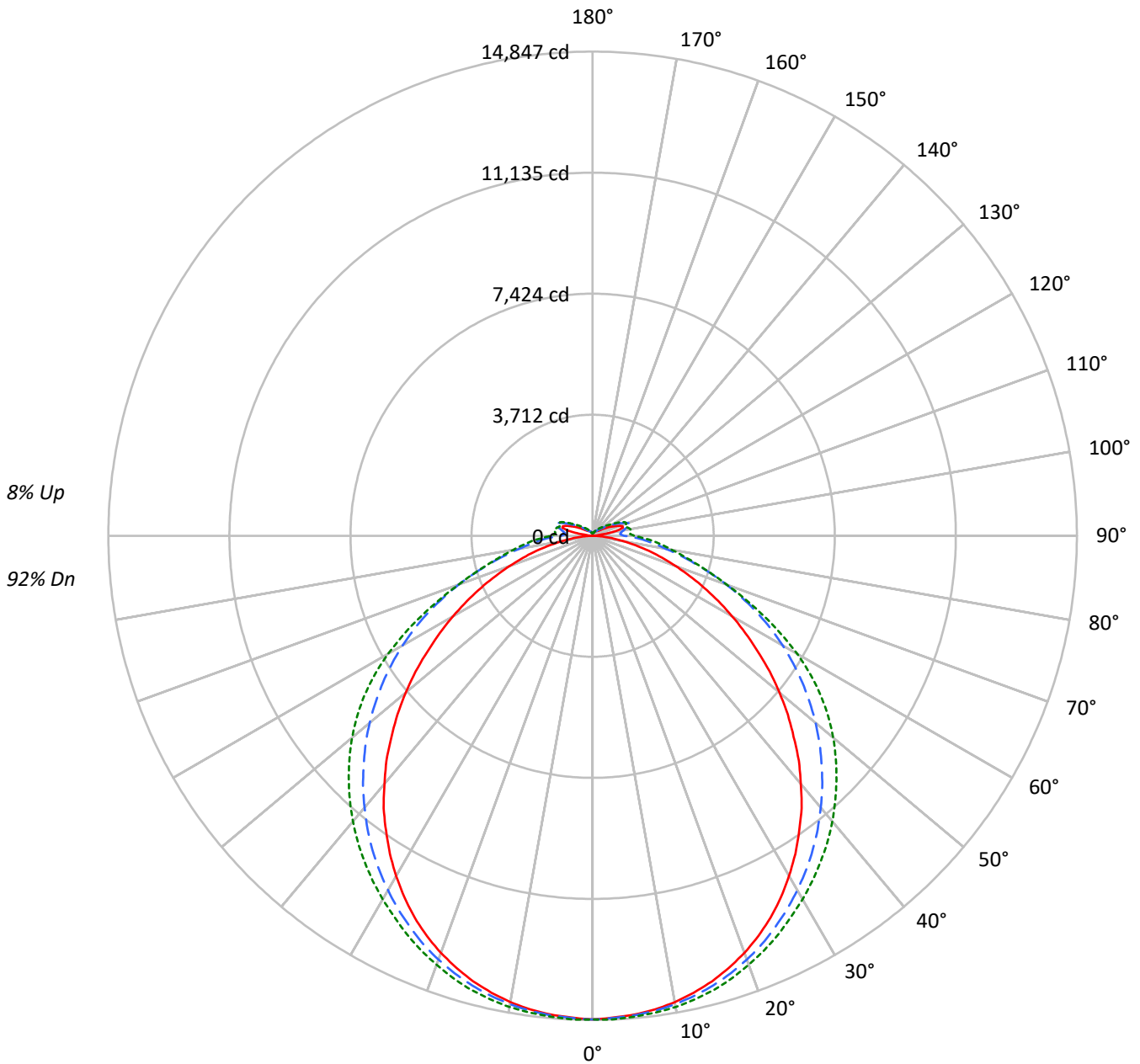
Lumens per Lamp: N/A
Luminaire Lumens: 46642.4 lumens
Efficiency: N/A
Efficacy: 152.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')
CIE Type: Direct

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°	25333	25333	25333
5°	25049	25082	25277
10°	24752	24849	25251
15°	24355	24574	25185
20°	23867	24239	25040
25°	23256	23824	24896
30°	22457	23374	24756
35°	21517	22897	24662
40°	20415	22346	24585
45°	19138	21747	24463
50°	17754	21141	24303
55°	16089	20401	23928
60°	14384	19530	22983
65°	12538	18421	21284
70°	10551	17010	19468
75°	8530	15377	18513
80°	6083	14165	19394
85°	3386	14591	24314



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1405.4	3.0
10°-20°	4032.0	8.6
20°-30°	6097.7	13.1
30°-40°	7320.3	15.7
40°-50°	7560.7	16.2
50°-60°	6802.3	14.6
60°-70°	5124.0	11.0
70°-80°	3094.1	6.6
80°-90°	1519.0	3.3
90°-100°	852.7	1.8
100°-110°	1112.6	2.4
110°-120°	856.0	1.8
120°-130°	428.9	0.9
130°-140°	217.8	0.5
140°-150°	120.3	0.3
150°-160°	63.6	0.1
160°-170°	27.0	0.1
170°-180°	8.2	0.0
0°-30°	11535.1	24.7
0°-40°	18855.4	40.4
0°-60°	33218.3	71.2
0°-90°	42955.4	92.1
90°-120°	2821.2	6.0
90°-150°	3588.3	7.7
90°-180°	3687.0	7.9
0°-180°	46642.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14832	14832	14832	14832	14832	
5°	14738	14778	14760	14818	14800	###
15°	14142	14211	14277	14397	14411	3987
25°	12916	13057	13242	13449	13482	5941
35°	11042	11300	11765	12121	12193	6903
45°	8716	9155	9921	10462	10574	6729
55°	6175	6814	7848	8440	8541	5536
65°	3768	4538	5554	5830	5764	3743
75°	1775	2548	3216	3300	3267	1894
85°	370	976	1612	1833	1866	428
90°	5	413	966	1219	1273	27
95°	68	361	850	1091	1151	169
105°	959	1072	1185	1082	1058	911
115°	673	734	897	979	988	679
125°	344	371	487	551	559	321
135°	212	222	273	329	345	167
145°	171	171	178	208	220	107
155°	144	150	148	145	149	62
165°	93	94	95	95	95	27
175°	84	85	85	86	86	8
180°	84	84	84	84	84	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	14832.2	14832.2	14832.2	14832.2	14832.2
2.5°	14788.7	14825.0	14803.2	14850.4	14846.7
5°	14737.9	14777.8	14759.6	14817.7	14799.6
7.5°	14650.7	14694.3	14690.7	14756.0	14748.7
10°	14523.6	14570.8	14585.3	14672.5	14672.5
12.5°	14349.4	14411.1	14447.4	14552.7	14556.3
15°	14142.5	14211.4	14276.9	14396.6	14411.1
17.5°	13892.1	13979.2	14069.9	14207.8	14226.0
20°	13608.9	13706.9	13830.3	13975.5	13997.3
22.5°	13282.2	13398.3	13558.1	13728.7	13754.1
25°	12915.6	13057.1	13242.3	13449.1	13481.9
27.5°	12498.1	12661.5	12911.9	13144.3	13173.3
30°	12044.4	12236.7	12548.9	12824.8	12872.0
32.5°	11565.2	11786.6	12171.4	12480.0	12545.3
35°	11042.4	11300.2	11764.8	12120.6	12193.2
37.5°	10527.0	10810.2	11336.5	11743.1	11830.2
40°	9924.5	10276.6	10879.1	11329.2	11434.5
42.5°	9358.1	9739.3	10421.8	10911.8	11013.4
45°	8715.7	9154.9	9920.8	10461.7	10574.2
47.5°	8113.0	8588.6	9438.0	9997.1	10113.2
50°	7477.9	8000.5	8922.5	9507.0	9626.8
52.5°	6842.6	7405.2	8389.0	8995.1	9107.7
55°	6174.6	6813.5	7848.1	8439.8	8541.4
57.5°	5553.9	6229.0	7292.7	7855.4	7917.1
60°	4940.4	5641.0	6726.4	7220.1	7241.9
62.5°	4341.5	5078.4	6145.6	6537.6	6508.6
65°	3767.9	4537.5	5553.9	5829.8	5764.4
67.5°	3216.2	4011.2	4947.7	5125.6	5038.5
70°	2693.5	3499.4	4359.7	4450.4	4370.5
72.5°	2232.5	3012.9	3764.3	3840.6	3782.4
75°	1775.0	2548.2	3216.2	3299.7	3267.0
77.5°	1346.7	2098.1	2711.6	2820.5	2827.8
80°	969.2	1687.9	2272.4	2443.0	2464.8
82.5°	638.9	1310.4	1905.8	2123.5	2156.2
85°	370.3	976.4	1611.7	1833.2	1865.9
87.5°	159.7	704.2	1295.9	1495.6	1535.5
90°	4.7	412.8	965.7	1219.3	1273.0
92.5°	26.7	357.7	858.3	1104.1	1156.1
95°	67.5	361.1	849.8	1090.6	1151.2
97.5°	272.1	488.6	890.2	1118.6	1182.0
100°	535.4	734.0	959.2	1136.9	1174.3
102.5°	815.5	956.1	1028.8	1103.5	1121.6
105°	958.8	1071.9	1184.7	1082.0	1058.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	780.9	861.0	1024.1	1097.0	1081.8
115°	673.0	733.9	897.3	978.9	987.9
117.5°	583.6	624.4	773.4	852.3	864.1
120°	488.6	527.9	666.9	735.0	743.9
122.5°	415.1	444.4	569.8	637.0	642.3
125°	343.6	371.2	486.6	551.1	559.2
127.5°	291.5	310.9	414.6	480.8	490.9
130°	257.1	268.2	357.3	420.0	431.8
132.5°	231.1	244.8	309.4	371.2	384.8
135°	211.5	222.5	272.6	328.9	345.2
137.5°	195.7	205.7	240.4	294.0	308.5
140°	185.4	192.7	215.5	260.9	276.4
142.5°	176.9	180.6	191.6	233.4	244.3
145°	171.2	171.3	177.7	207.7	219.5
147.5°	162.8	166.6	168.4	184.8	195.7
150°	156.3	161.8	161.0	165.5	177.4
152.5°	149.8	155.3	154.5	151.8	159.0
155°	144.2	149.7	148.0	145.3	148.9
157.5°	103.3	105.2	107.0	107.9	107.9
160°	99.6	100.5	102.4	103.3	103.3
162.5°	95.8	96.8	97.7	98.6	98.6
165°	93.1	94.0	94.9	94.9	94.9
167.5°	90.3	90.3	91.2	92.1	92.1
170°	87.5	88.4	88.4	89.3	89.3
172.5°	85.6	86.5	86.5	86.5	87.5
175°	83.8	84.7	84.7	85.6	85.6
177.5°	83.8	83.8	83.8	83.8	83.8
180°	83.8	83.8	83.8	83.8	83.8



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	962.5	1071.4	1220.3	<i>1143.0</i>	1047.6
110°	889.9	989.0	1143.2	<i>1173.2</i>	1100.1



(END OF REPORT)