

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: P828417

Luminaire Tested: **OHBL-48SE-A-UNV-L940-CD-UPL24**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P828417
REPORT IS A COMBINATION OF REPORTS P826257 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-A-UNV-L940-CD-UPL24
Description:
Light Source: -
Ballast/Driver: -

Summary

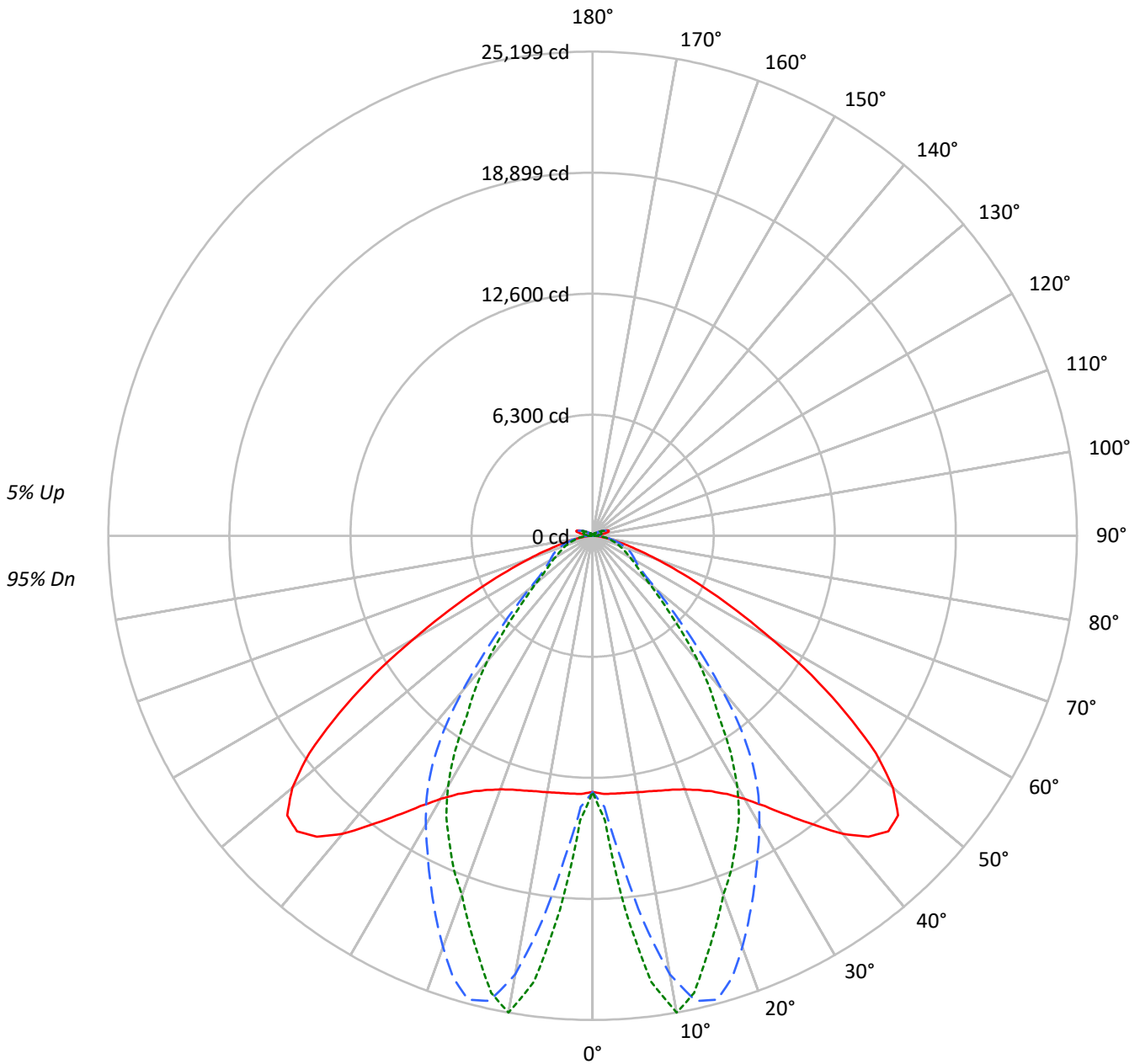
Lumens per Lamp: N/A
Luminaire Lumens: 44895.7 lumens
Efficiency: N/A
Efficacy: 146.6 lumens/watt
Spacing Criteria (0/90/45): 2.18 / 1.37 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')
CIE Type: Direct

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					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	50	30	10	0				
RCR																															
0	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	95													
1	109	105	102	99	106	103	100	97	98	95	93	93	91	89	89	87	86	83													
2	101	94	89	84	98	92	87	82	88	84	80	84	80	77	80	78	75	73													
3	94	85	78	72	91	83	76	71	79	74	69	76	71	68	73	69	66	64													
4	87	76	69	63	84	75	68	62	72	66	61	69	64	60	66	62	58	56													
5	81	69	61	56	78	68	61	55	65	59	54	63	57	53	61	56	52	50													
6	75	63	55	49	73	62	55	49	60	53	48	58	52	48	56	51	47	45													
7	70	58	50	44	68	57	49	44	55	48	44	53	47	43	52	46	42	40													
8	65	53	45	40	64	52	45	40	51	44	39	49	43	39	48	42	38	37													
9	61	49	42	37	60	48	41	36	47	40	36	46	40	36	44	39	35	33													
10	58	46	38	33	56	45	38	33	44	37	33	42	37	33	41	36	32	31													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	22776	22776	22776
5°	22892	28646	33387
10°	23096	39494	43367
15°	23646	43023	39803
20°	24624	39919	35572
25°	26420	35901	32537
30°	29460	32326	28933
35°	34633	28293	23056
40°	41643	21547	18349
45°	47768	14680	13060
50°	48427	10070	9659
55°	41918	7924	7891
60°	31312	7415	7099
65°	21462	7438	6725
70°	13722	7175	6513
75°	8252	6640	6231
80°	4856	5835	6429
85°	2337	5011	5962



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1740.9	3.9
10°-20°	6144.4	13.7
20°-30°	9054.2	20.2
30°-40°	9514.5	21.2
40°-50°	7280.4	16.2
50°-60°	4396.2	9.8
60°-70°	2682.7	6.0
70°-80°	1464.2	3.3
80°-90°	519.3	1.2
90°-100°	201.6	0.4
100°-110°	699.8	1.6
110°-120°	600.3	1.3
120°-130°	288.0	0.6
130°-140°	144.1	0.3
140°-150°	83.5	0.2
150°-160°	48.7	0.1
160°-170°	25.2	0.1
170°-180°	7.7	0.0
0°-30°	16939.5	37.7
0°-40°	26454.0	58.9
0°-60°	38130.6	84.9
0°-90°	42796.8	95.3
90°-120°	1501.7	3.3
90°-150°	2017.3	4.5
90°-180°	2099.0	4.7
0°-180°	44895.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13335	13335	13335	13335	13335	
5°	13469	14450	16857	18822	19548	###
15°	13731	21387	24995	23324	22776	3904
25°	14673	24821	19955	18066	17620	6858
35°	17774	19877	14538	12107	11399	11275
45°	21754	11342	6697	5893	5645	16437
55°	16088	3846	3048	2825	2817	14216
65°	6450	2435	2243	1919	1821	6609
75°	1717	1514	1389	1146	1100	1976
85°	256	470	554	504	458	316
90°	4	30	41	54	60	17
95°	46	96	150	198	224	143
105°	872	862	734	522	480	827
115°	602	608	608	606	601	607
125°	294	310	316	315	312	276
135°	174	177	184	185	187	137
145°	126	130	132	133	134	80
155°	101	103	104	105	105	47
165°	87	88	89	89	89	25
175°	78	79	79	80	80	8
180°	78	78	78	78	78	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13335.0	13335.0	13335.0	13335.0	13335.0
2.5°	13444.2	13581.4	14122.4	14683.9	14820.6
5°	13468.8	14450.1	16856.9	18822.3	19548.4
7.5°	13497.3	15857.3	20244.9	22651.2	23421.4
10°	13551.7	17636.9	23180.7	24908.2	25199.2
12.5°	13619.2	19522.2	24796.1	24733.2	24366.1
15°	13731.2	21386.9	24995.0	23324.2	22775.8
17.5°	13849.0	22964.5	24127.1	21790.5	21313.1
20°	14040.6	24135.6	22776.9	20427.3	19884.6
22.5°	14316.8	24779.5	21361.1	19194.5	18840.5
25°	14673.1	24821.2	19955.0	18066.3	17620.2
27.5°	15150.5	24245.4	18607.2	16960.9	16489.7
30°	15800.2	23143.0	17354.9	15628.0	15043.6
32.5°	16682.5	21556.1	16063.8	14018.9	13363.5
35°	17773.5	19877.2	14537.5	12106.7	11398.8
37.5°	18964.1	18013.1	12685.4	10413.5	10001.2
40°	20244.9	16092.3	10490.1	8828.9	8533.9
42.5°	21244.4	14004.1	8451.0	7337.1	7023.2
45°	21753.9	11342.2	6696.6	5892.7	5645.0
47.5°	21555.5	8804.4	5308.8	4682.1	4607.8
50°	20397.6	6501.1	4249.8	3856.9	3826.1
52.5°	18587.2	4845.7	3510.5	3267.4	3214.2
55°	16087.8	3846.1	3048.4	2825.4	2816.8
57.5°	13507.1	3267.4	2767.1	2594.3	2534.3
60°	10754.3	2913.4	2553.7	2358.8	2237.0
62.5°	8429.9	2665.9	2397.1	2132.3	2018.5
65°	6449.6	2434.8	2242.7	1919.0	1821.2
67.5°	4807.9	2214.6	2054.0	1694.9	1637.7
70°	3503.0	1988.8	1839.0	1507.4	1462.1
72.5°	2496.6	1763.5	1623.9	1331.2	1281.5
75°	1717.2	1514.2	1388.9	1145.9	1099.6
77.5°	1158.5	1259.7	1157.4	978.4	958.9
80°	773.7	999.0	936.0	829.2	817.1
82.5°	469.5	725.1	738.8	674.2	641.6
85°	255.6	469.5	553.5	504.4	457.5
87.5°	100.1	260.1	381.4	342.6	322.5
90°	4.3	29.6	40.9	53.9	60.0
92.5°	14.8	39.1	62.6	88.7	100.0
95°	46.1	96.5	149.5	198.2	224.3
97.5°	233.9	253.0	272.1	329.5	358.2
100°	479.9	509.5	411.2	434.7	442.5
102.5°	741.6	737.3	537.3	481.7	474.7
105°	872.1	862.5	733.8	522.5	479.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	702.5	712.9	699.0	679.0	651.2
115°	601.7	607.7	607.7	606.0	600.8
117.5°	514.7	515.6	519.1	518.2	519.1
120°	426.0	435.6	443.4	439.1	433.9
122.5°	357.3	367.8	373.0	371.3	366.0
125°	293.9	309.5	315.6	314.7	312.1
127.5°	248.7	260.0	268.7	269.5	268.7
130°	216.5	223.4	232.1	233.0	233.9
132.5°	192.1	198.2	204.3	207.8	206.9
135°	173.9	177.4	183.5	185.2	186.9
137.5°	159.1	161.7	166.9	169.5	169.5
140°	146.1	149.5	153.9	155.6	156.5
142.5°	134.8	138.2	141.7	143.5	143.5
145°	126.1	129.5	132.2	133.0	133.9
147.5°	118.2	121.7	123.5	125.2	125.2
150°	112.2	113.9	116.5	117.4	118.2
152.5°	106.1	107.8	110.4	111.3	111.3
155°	100.9	102.6	104.3	105.2	105.2
157.5°	96.5	98.2	100.0	100.9	100.9
160°	93.0	93.9	95.6	96.5	96.5
162.5°	89.6	90.4	91.3	92.2	92.2
165°	86.9	87.8	88.7	88.7	88.7
167.5°	84.3	84.3	85.2	86.1	86.1
170°	81.7	82.6	82.6	83.5	83.5
172.5°	80.0	80.9	80.9	80.9	81.7
175°	78.2	79.1	79.1	80.0	80.0
177.5°	78.2	78.2	78.2	78.2	78.2
180°	78.2	78.2	78.2	78.2	78.2



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	875.5	879.0	811.2	633.8	527.8
110°	807.7	815.5	776.4	709.5	624.3



(END OF REPORT)