

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: P827220

Luminaire Tested: **OHBL-48SE-N-UNV-L840-CD-UPL24**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P827220
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-L840-CD-UPL24
Description: 48000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND NARROW LENS AND 2400 LUMEN UPLIGHT MODULE
Light Source: -
Ballast/Driver: -

Summary

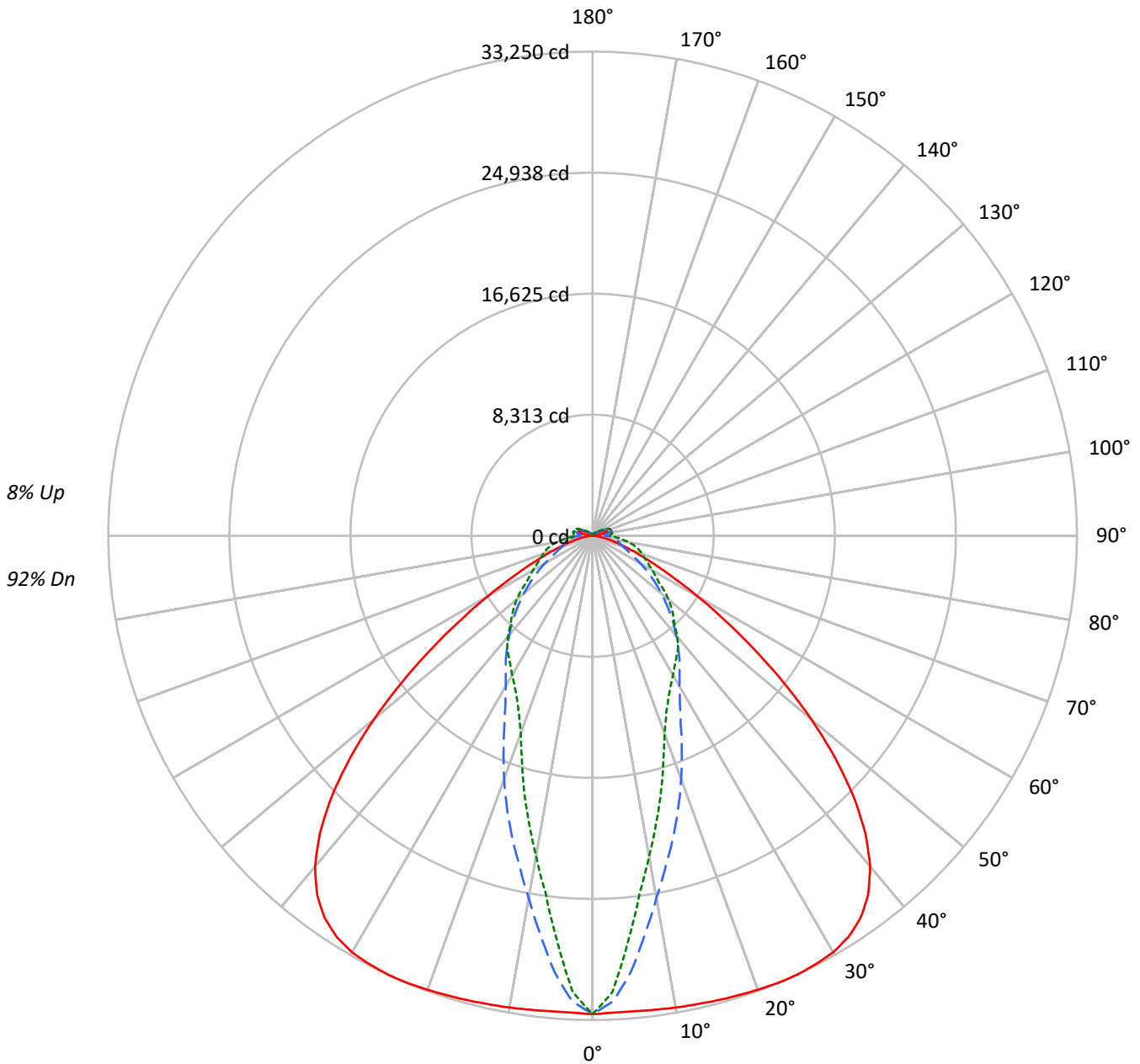
Lumens per Lamp: N/A
Luminaire Lumens: 50898.3 lumens
Efficiency: N/A
Efficacy: 166.2 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')
CIE Type: Direct

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°	56101	56101	56101
5°	55716	51090	47733
10°	56070	43035	38461
15°	56882	36805	31725
20°	58180	31120	25792
25°	59869	25759	22721
30°	61582	22191	21230
35°	62469	20224	20354
40°	60973	18268	19445
45°	55651	16508	18146
50°	46521	14585	17189
55°	34960	12775	15466
60°	24166	10956	15011
65°	15968	9435	14960
70°	10642	8855	16083
75°	7121	9132	17822
80°	4610	10114	19506
85°	2373	12651	23260



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2765.0	5.4
10°-20°	6504.5	12.8
20°-30°	8153.3	16.0
30°-40°	8651.5	17.0
40°-50°	7822.4	15.4
50°-60°	5671.7	11.1
60°-70°	3559.3	7.0
70°-80°	2355.4	4.6
80°-90°	1363.1	2.7
90°-100°	889.2	1.7
100°-110°	1258.7	2.5
110°-120°	970.5	1.9
120°-130°	466.8	0.9
130°-140°	228.1	0.4
140°-150°	130.1	0.3
150°-160°	70.8	0.1
160°-170°	29.0	0.1
170°-180°	8.8	0.0
0°-30°	17422.7	34.2
0°-40°	26074.2	51.2
0°-60°	39568.3	77.7
0°-90°	46846.1	92.0
90°-120°	3118.4	6.1
90°-150°	3943.5	7.7
90°-180°	4052.0	8.0
0°-180°	50898.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	32846	32846	32846	32846	32846	
5°	32781	31940	30064	28670	27948	###
15°	33031	26922	21383	19016	18154	9367
25°	33250	20817	14318	12708	12304	15361
35°	32059	13840	10391	10066	10063	19929
45°	25344	8766	7531	7712	7844	19307
55°	13417	5433	4914	5330	5521	12123
65°	4799	3151	2845	3645	4052	4993
75°	1482	1698	1910	2967	3145	1652
85°	260	703	1397	1944	1785	311
90°	5	328	857	1203	1219	20
95°	66	317	885	1197	1271	176
105°	1028	1130	1363	1289	1258	977
115°	726	796	1049	1135	1138	732
125°	376	406	541	587	581	350
135°	231	242	289	335	337	183
145°	182	190	199	225	223	115
155°	154	165	170	174	168	66
165°	100	101	102	102	102	29
175°	90	91	91	92	92	9
180°	90	90	90	90	90	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	32846.4	32846.4	32846.4	32846.4	32846.4
2.5°	32777.7	32590.1	32005.5	31649.1	31349.0
5°	32780.8	31939.8	30064.2	28669.9	27947.8
7.5°	32827.7	30958.2	27578.9	25543.8	24749.7
10°	32899.6	29742.2	25259.3	23089.7	22348.8
12.5°	32952.7	28372.9	23217.9	20989.0	20176.2
15°	33030.9	26922.4	21382.8	19016.4	18153.5
17.5°	33102.8	25556.3	19569.7	17096.9	16137.2
20°	33174.7	24083.8	17756.5	15208.7	14417.8
22.5°	33243.5	22530.1	15987.1	13742.5	13201.7
25°	33249.7	20817.0	14317.8	12707.8	12304.5
27.5°	33168.4	19041.4	12964.1	11841.8	11591.8
30°	33027.7	17318.9	11913.7	11216.6	11038.4
32.5°	32677.6	15562.0	11100.9	10613.3	10510.1
35°	32058.6	13839.5	10391.3	10066.2	10063.1
37.5°	31083.3	12310.8	9622.3	9566.0	9634.8
40°	29642.1	10972.8	8893.9	9043.9	9043.9
42.5°	27719.5	9809.9	8234.3	8387.5	8346.8
45°	25343.7	8765.7	7530.9	7712.2	7843.5
47.5°	22589.5	7846.6	6811.9	7162.0	7343.3
50°	19594.7	6971.3	6155.4	6602.4	6808.7
52.5°	16456.0	6161.6	5514.5	6027.2	6192.9
55°	13417.4	5433.2	4914.3	5330.1	5520.8
57.5°	10666.4	4739.2	4326.6	4720.5	5114.4
60°	8299.9	4142.1	3773.3	4336.0	4729.9
62.5°	6339.8	3610.7	3254.3	3976.5	4370.4
65°	4798.6	3151.2	2844.8	3645.1	4051.5
67.5°	3617.0	2754.1	2525.9	3404.4	3801.4
70°	2716.6	2369.6	2269.6	3254.3	3610.7
72.5°	2007.0	2016.4	2066.4	3123.0	3395.0
75°	1481.8	1697.5	1910.1	2966.7	3144.9
77.5°	1059.8	1406.8	1769.4	2779.1	2841.7
80°	734.6	1147.3	1622.5	2532.2	2479.0
82.5°	459.5	919.1	1491.2	2260.2	2113.3
85°	259.5	703.4	1397.4	1944.5	1785.0
87.5°	115.7	525.2	1222.3	1516.2	1416.1
90°	5.0	327.9	856.7	1203.0	1219.4
92.5°	23.3	288.8	819.1	1146.1	1190.4
95°	65.5	317.3	884.8	1197.1	1270.9
97.5°	284.6	472.3	982.0	1279.3	1349.8
100°	570.8	748.6	1088.9	1328.4	1368.7
102.5°	874.9	998.1	1183.8	1307.4	1324.4
105°	1028.0	1129.6	1362.9	1288.8	1258.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	839.3	926.3	1194.8	1274.9	1258.6
115°	726.4	795.9	1049.1	1134.7	1138.0
117.5°	629.5	677.4	903.4	980.5	984.6
120°	527.5	576.0	772.6	833.2	827.2
122.5°	448.5	485.5	647.8	699.0	689.8
125°	375.5	406.0	541.2	587.1	581.0
127.5°	320.4	339.6	452.8	497.6	493.4
130°	283.4	297.6	382.7	427.4	428.4
132.5°	252.3	265.5	328.8	376.6	375.6
135°	231.3	241.5	289.2	334.9	336.9
137.5°	214.3	226.6	257.6	301.3	301.3
140°	199.3	209.5	233.3	272.8	273.8
142.5°	189.4	196.5	213.0	246.3	246.3
145°	182.5	189.6	198.9	224.9	222.8
147.5°	173.5	183.8	188.9	206.5	203.4
150°	166.5	177.9	180.9	191.3	189.1
152.5°	159.5	170.9	173.9	181.1	178.0
155°	153.5	164.9	170.0	174.1	167.9
157.5°	111.0	113.0	115.0	116.0	116.0
160°	107.0	108.0	110.0	111.0	111.0
162.5°	103.0	104.0	105.0	106.0	106.0
165°	100.0	101.0	102.0	102.0	102.0
167.5°	97.0	97.0	98.0	99.0	99.0
170°	94.0	95.0	95.0	96.0	96.0
172.5°	92.0	93.0	93.0	93.0	94.0
175°	90.0	91.0	91.0	92.0	92.0
177.5°	90.0	90.0	90.0	90.0	90.0
180°	90.0	90.0	90.0	90.0	90.0



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	1032.0	1139.2	1408.2	1344.9	1244.7
110°	957.1	1053.7	1327.5	1366.2	1290.1



(END OF REPORT)