

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: P826618

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P826618
REPORT IS A COMBINATION OF REPORTS P826258 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-MCL-UNV-L830-CD-UPL24
Description:
Light Source: -
Ballast/Driver: -

Summary

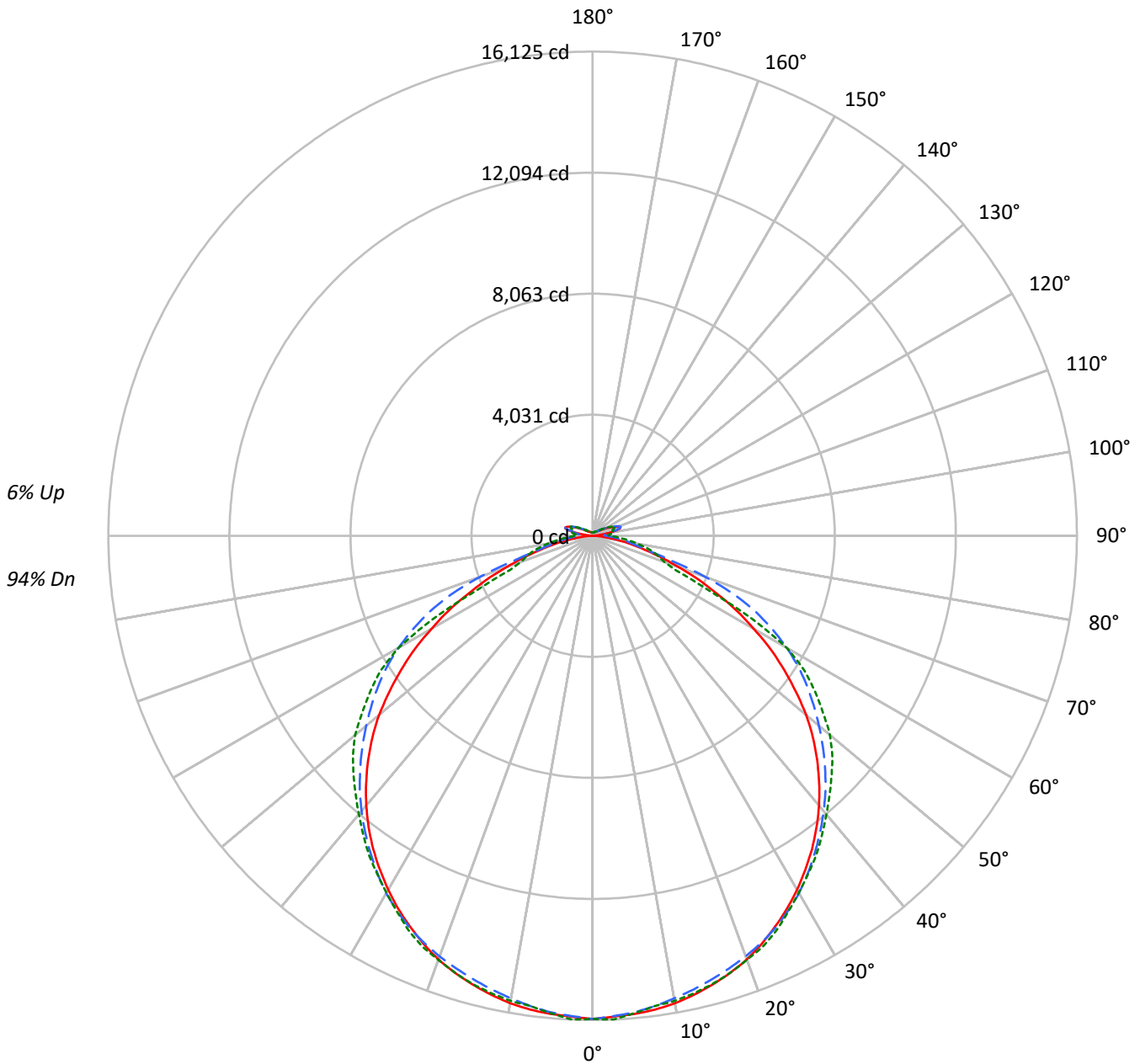
Lumens per Lamp: N/A
Luminaire Lumens: 47735.9 lumens
Efficiency: N/A
Efficacy: 155.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')
CIE Type: Direct

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

TEST NUMBER: P826618

CATALOG NUMBER: OHBL-48SE-MCL-UNV-L830-CD-UPL24

Luminous Intensity Polar Plot





TEST NUMBER: P826618

CATALOG NUMBER: OHBL-48SE-MCL-UNV-L830-CD-UPL24

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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	94																			
1	108	103	99	95	104	100	97	93	95	92	89	90	88	85	86	84	82	80																			
2	98	90	84	78	95	88	82	77	83	78	74	79	75	72	75	72	69	67																			
3	90	79	71	65	87	77	70	64	74	67	62	70	65	60	67	62	59	56																			
4	82	70	62	55	79	69	61	54	65	59	53	62	57	52	60	55	51	48																			
5	75	63	54	47	73	61	53	47	59	51	46	56	50	45	54	48	44	42																			
6	70	57	48	41	67	55	47	41	53	46	40	51	44	39	49	43	39	36																			
7	65	51	43	36	62	50	42	36	48	41	35	46	40	35	44	39	34	32																			
8	60	47	38	32	58	46	38	32	44	37	32	42	36	31	41	35	31	29																			
9	56	43	35	29	54	42	34	29	40	33	28	39	33	28	37	32	28	26																			
10	52	39	32	26	51	39	31	26	37	30	26	36	30	25	35	29	25	23																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	27485	27485	27485
5°	27173	27074	27258
10°	26942	26652	27069
15°	26638	26333	27004
20°	26333	26128	26885
25°	25875	25920	26773
30°	25384	25601	26398
35°	24819	25101	26261
40°	24122	24585	26035
45°	23211	23988	26043
50°	22031	23310	26046
55°	20268	22640	25317
60°	18027	21666	23689
65°	15192	19880	15250
70°	11940	15488	11297
75°	8632	9167	11841
80°	5651	7586	11937
85°	2830	6888	12553



TEST NUMBER: P826618

CATALOG NUMBER: OHBL-48SE-MCL-UNV-L830-CD-UPL24

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1517.3	3.2
10°-20°	4351.0	9.1
20°-30°	6645.4	13.9
30°-40°	8063.1	16.9
40°-50°	8450.9	17.7
50°-60°	7657.8	16.0
60°-70°	5134.3	10.8
70°-80°	2305.5	4.8
80°-90°	842.4	1.8
90°-100°	467.6	1.0
100°-110°	867.8	1.8
110°-120°	702.1	1.5
120°-130°	341.1	0.7
130°-140°	176.8	0.4
140°-150°	104.6	0.2
150°-160°	63.4	0.1
160°-170°	34.3	0.1
170°-180°	10.5	0.0
0°-30°	12513.7	26.2
0°-40°	20576.9	43.1
0°-60°	36685.6	76.9
0°-90°	44967.8	94.2
90°-120°	2037.5	4.3
90°-150°	2659.9	5.6
90°-180°	2768.0	5.8
0°-180°	47735.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16092	16092	16092	16092	16092	
5°	15988	16043	15932	15980	15960	###
15°	15469	15408	15299	15434	15452	4367
25°	14370	14308	14408	14540	14498	6624
35°	12737	12767	12898	13035	12984	7961
45°	10571	10743	10943	11222	11257	8143
55°	7778	8153	8709	9058	9037	6943
65°	4565	5280	5994	5058	4130	4549
75°	1796	2606	1917	1962	2090	1963
85°	310	593	761	919	963	378
90°	7	229	437	551	581	22
95°	52	227	430	540	578	156
105°	943	977	918	720	681	896
115°	663	678	718	735	734	667
125°	331	350	380	386	385	311
135°	207	213	222	235	240	164
145°	156	162	165	168	171	100
155°	131	135	137	138	136	61
165°	119	120	120	120	120	34
175°	109	110	108	106	106	11
180°	107	107	107	107	107	



TEST NUMBER: P826618

CATALOG NUMBER: OHBL-48SE-MCL-UNV-L830-CD-UPL24

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	16092.2	16092.2	16092.2	16092.2	16092.2
2.5°	16027.1	16094.5	16010.8	16101.5	16124.8
5°	15987.5	16043.3	15931.6	15980.5	15959.6
7.5°	15915.3	15933.9	15801.3	15840.8	15799.0
10°	15808.3	15799.0	15643.1	15719.9	15729.2
12.5°	15650.1	15622.2	15482.6	15598.9	15601.2
15°	15468.6	15408.0	15298.7	15433.7	15452.3
17.5°	15259.2	15180.1	15107.9	15282.4	15254.5
20°	15014.9	14921.8	14907.9	15098.6	15028.8
22.5°	14712.4	14640.2	14672.8	14854.3	14810.1
25°	14370.3	14307.5	14407.6	14540.2	14498.3
27.5°	14009.7	13972.5	14086.5	14188.8	14107.4
30°	13614.1	13593.2	13744.4	13828.1	13725.8
32.5°	13183.6	13190.6	13335.0	13448.9	13353.6
35°	12736.9	12767.1	12897.5	13034.8	12983.6
37.5°	12245.9	12313.5	12443.8	12599.6	12546.1
40°	11727.0	11824.8	11969.1	12157.5	12108.7
42.5°	11166.3	11289.7	11475.8	11685.2	11680.5
45°	10570.6	10742.9	10943.0	11222.1	11257.1
47.5°	9951.7	10144.8	10398.5	10770.8	10824.3
50°	9279.3	9521.3	9837.7	10284.5	10317.1
52.5°	8530.0	8860.5	9279.3	9707.5	9667.8
55°	7778.5	8153.2	8709.3	9058.2	9037.3
57.5°	7029.2	7450.4	8125.2	8374.2	8371.8
60°	6191.6	6724.5	7462.0	7650.6	7464.4
62.5°	5416.8	5989.1	6754.7	6617.5	5979.8
65°	4565.2	5279.5	5993.8	5058.5	4130.1
67.5°	3809.0	4553.6	5091.1	3464.6	2966.7
70°	3048.1	3869.4	3969.6	2571.1	2536.2
72.5°	2373.4	3248.2	2738.6	2201.1	2312.8
75°	1796.3	2606.0	1917.3	1961.5	2089.5
77.5°	1310.0	2001.1	1491.5	1719.5	1824.2
80°	900.5	1417.0	1216.9	1445.0	1517.1
82.5°	565.4	935.4	974.9	1163.4	1237.8
85°	309.5	593.3	760.8	919.1	963.3
87.5°	128.0	358.4	581.7	709.6	746.9
90°	7.0	229.4	437.0	551.0	580.8
92.5°	18.1	193.1	388.1	492.8	521.2
95°	51.6	226.6	430.0	540.3	577.5
97.5°	255.0	368.5	516.9	625.0	665.0
100°	520.6	626.7	628.6	693.3	708.6
102.5°	803.1	854.2	733.3	706.3	705.8
105°	942.7	976.6	918.0	719.8	681.2



TEST NUMBER: P826618

CATALOG NUMBER: OHBL-48SE-MCL-UNV-L830-CD-UPL24

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	768.2	795.6	827.3	826.8	801.7
115°	662.6	678.4	717.9	734.7	733.7
117.5°	569.5	575.1	613.7	626.7	632.3
120°	474.6	487.1	525.8	532.7	529.5
122.5°	401.1	412.2	443.4	453.2	449.9
125°	330.8	349.9	379.7	385.7	385.2
127.5°	284.8	296.8	324.8	332.7	334.1
130°	250.3	260.1	281.0	291.3	292.2
132.5°	226.6	235.4	248.9	262.0	261.0
135°	207.0	213.1	221.9	235.4	239.6
137.5°	193.6	196.3	201.9	216.4	218.7
140°	179.6	183.3	185.6	196.8	200.1
142.5°	165.2	171.2	172.6	181.5	183.8
145°	155.9	161.9	164.7	168.0	171.2
147.5°	149.8	153.5	155.4	157.3	159.6
150°	143.3	145.2	148.0	148.9	149.8
152.5°	136.8	138.7	141.4	142.4	142.4
155°	131.2	135.4	137.3	138.2	135.9
157.5°	126.6	130.7	132.6	133.5	133.5
160°	122.8	126.1	128.0	128.9	128.9
162.5°	121.4	122.4	123.3	124.2	124.2
165°	118.6	119.6	120.5	120.5	120.5
167.5°	115.9	118.2	116.8	117.7	117.7
170°	113.1	114.0	114.0	112.6	112.6
172.5°	111.2	112.1	112.1	109.8	110.7
175°	109.3	110.3	107.9	106.5	106.5
177.5°	111.7	109.3	107.0	104.7	102.4
180°	107.0	107.0	107.0	107.0	107.0



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	948.7	985.0	982.2	815.6	706.8
110°	878.4	910.1	926.4	875.7	789.1



(END OF REPORT)