

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: P827748

Luminaire Tested: **OHBL-24SE-MCL-UNV-L930-CD-UPL12**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P827748
REPORT IS A COMBINATION OF REPORTS P826078 AND G3-2310-221-12
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-24SE-MCL-UNV-L930-CD-UPL12
Description:
Light Source: -
Ballast/Driver: -

Summary

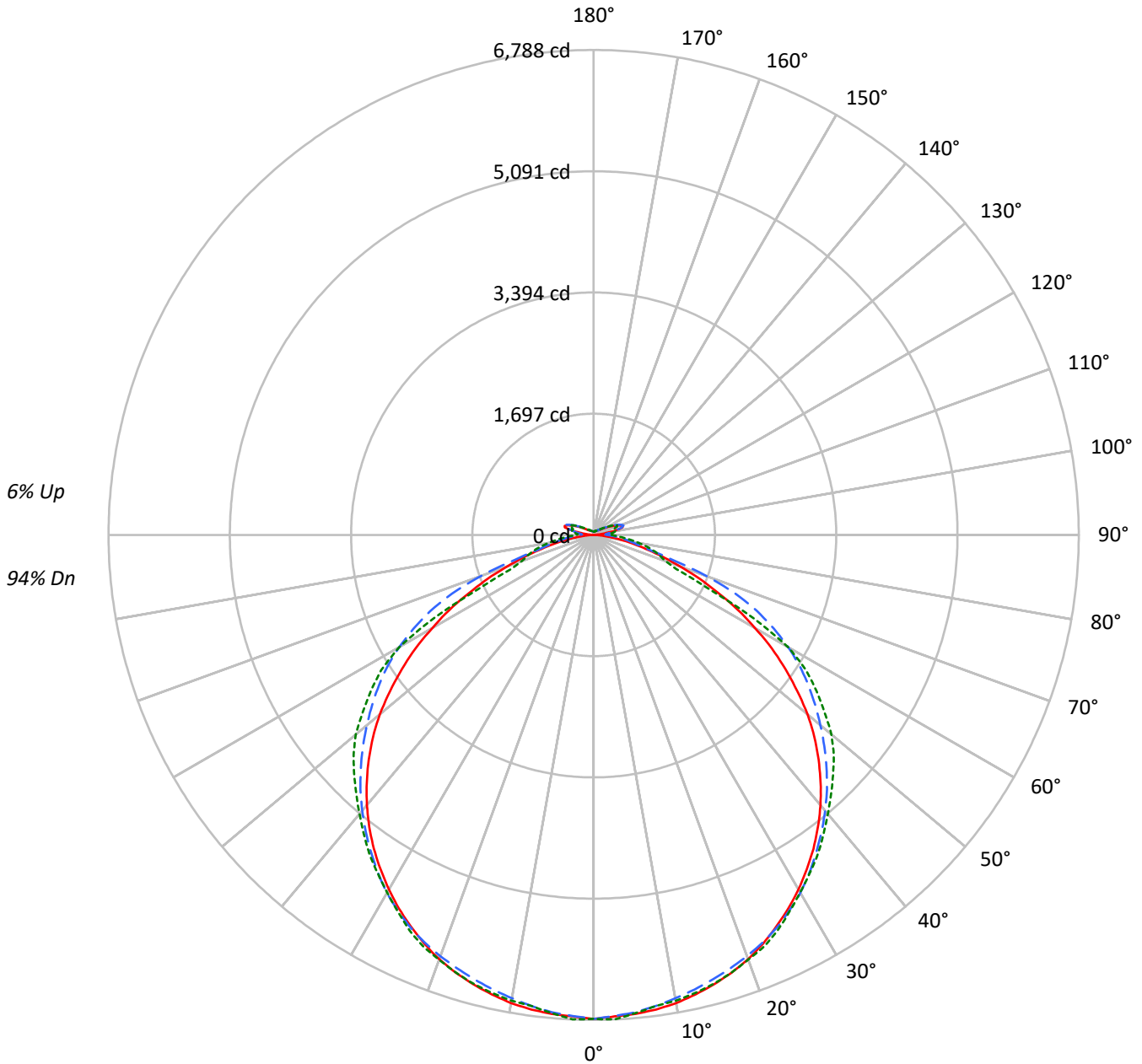
Lumens per Lamp: N/A
Luminaire Lumens: 20152.8 lumens
Efficiency: N/A
Efficacy: 137.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')
CIE Type: Direct

Input Watts (W): 146.4
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	0
RCR																					
0	118	118	118	118	114	114	114	114	108	108	108	102	102	102	96	96	96	96	96	96	94
1	108	103	99	95	104	100	97	93	95	92	89	90	88	85	85	84	82	82	82	82	79
2	98	90	84	78	95	88	82	77	83	78	74	79	75	71	75	72	69	69	69	69	66
3	90	79	71	65	87	77	70	64	73	67	62	70	65	60	67	62	59	59	59	59	56
4	82	70	62	55	79	69	61	54	65	58	53	62	56	52	59	55	50	50	50	50	48
5	75	63	54	47	73	61	53	47	59	51	46	56	50	45	53	48	44	44	44	44	42
6	70	56	48	41	67	55	47	41	53	46	40	51	44	39	48	43	38	38	38	38	36
7	64	51	43	36	62	50	42	36	48	41	35	46	40	35	44	38	34	34	34	34	32
8	60	47	38	32	58	46	38	32	44	37	32	42	36	31	41	35	31	31	31	31	29
9	56	43	35	29	54	42	34	29	40	33	28	39	32	28	37	32	28	28	28	28	26
10	52	39	32	26	51	39	31	26	37	30	26	36	30	25	35	29	25	25	25	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11570	11570	11570
5°	11438	11396	11474
10°	11341	11219	11395
15°	11213	11085	11367
20°	11084	10998	11317
25°	10892	10911	11270
30°	10685	10776	11112
35°	10448	10566	11054
40°	10154	10349	10959
45°	9771	10098	10963
50°	9274	9812	10964
55°	8532	9530	10657
60°	7588	9120	9972
65°	6395	8368	6420
70°	5026	6519	4755
75°	3633	3858	4984
80°	2379	3193	5025
85°	1191	2900	5284



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	638.7	3.2
10°-20°	1831.5	9.1
20°-30°	2797.3	13.9
30°-40°	3394.1	16.8
40°-50°	3557.4	17.7
50°-60°	3223.5	16.0
60°-70°	2161.3	10.7
70°-80°	970.5	4.8
80°-90°	354.7	1.8
90°-100°	202.2	1.0
100°-110°	384.6	1.9
110°-120°	312.5	1.6
120°-130°	151.6	0.8
130°-140°	78.4	0.4
140°-150°	46.5	0.2
150°-160°	28.1	0.1
160°-170°	15.2	0.1
170°-180°	4.7	0.0
0°-30°	5267.6	26.1
0°-40°	8661.8	43.0
0°-60°	15442.7	76.6
0°-90°	18929.1	93.9
90°-120°	899.2	4.5
90°-150°	1175.7	5.8
90°-180°	1224.0	6.1
0°-180°	20152.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6774	6774	6774	6774	6774	
5°	6730	6753	6706	6727	6718	640
15°	6511	6486	6440	6497	6505	1838
25°	6049	6023	6065	6121	6103	2788
35°	5362	5374	5429	5487	5465	3351
45°	4450	4522	4606	4724	4739	3428
55°	3274	3432	3666	3813	3804	2923
65°	1922	2222	2523	2129	1739	1915
75°	756	1097	807	826	880	826
85°	130	250	320	387	406	159
90°	3	98	185	233	246	9
95°	21	99	183	232	250	68
105°	422	436	408	317	300	400
115°	299	303	320	326	323	298
125°	149	156	169	170	172	139
135°	91	95	99	105	106	73
145°	69	72	73	75	76	44
155°	58	60	61	62	61	27
165°	53	53	54	54	54	15
175°	49	49	48	47	47	5
180°	47	47	47	47	47	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6773.9	6773.9	6773.9	6773.9	6773.9
2.5°	6746.5	6774.9	6739.6	6777.9	6787.7
5°	6729.9	6753.4	6706.3	6727.0	6718.1
7.5°	6699.5	6707.3	6651.5	6668.2	6650.6
10°	6654.4	6650.6	6584.9	6617.3	6621.1
12.5°	6587.8	6576.1	6517.3	6566.3	6567.3
15°	6511.4	6486.0	6439.9	6496.7	6504.6
17.5°	6423.3	6390.0	6359.6	6433.1	6421.3
20°	6320.4	6281.2	6275.4	6355.7	6326.3
22.5°	6193.1	6162.7	6176.5	6252.9	6234.3
25°	6049.2	6022.7	6064.8	6120.6	6103.0
27.5°	5897.4	5881.7	5929.6	5972.8	5938.4
30°	5730.8	5722.0	5785.6	5820.9	5777.8
32.5°	5549.6	5552.5	5613.3	5661.2	5621.2
35°	5361.6	5374.3	5429.2	5487.0	5465.4
37.5°	5154.9	5183.3	5238.2	5303.8	5281.2
40°	4936.5	4977.6	5038.3	5117.6	5097.1
42.5°	4700.5	4752.4	4830.7	4918.9	4916.8
45°	4449.7	4522.1	4606.4	4723.9	4738.6
47.5°	4189.1	4270.4	4377.2	4533.9	4556.4
50°	3906.1	4008.0	4141.2	4329.2	4342.9
52.5°	3590.7	3729.8	3906.1	4086.3	4069.6
55°	3274.3	3432.0	3666.1	3813.1	3804.2
57.5°	2958.9	3136.3	3420.3	3525.1	3524.1
60°	2606.3	2830.6	3141.1	3220.5	3142.1
62.5°	2280.1	2521.1	2843.4	2785.6	2517.2
65°	1921.7	2222.4	2523.1	2129.3	1738.6
67.5°	1603.4	1916.8	2143.1	1458.4	1248.8
70°	1283.1	1628.9	1671.0	1082.3	1067.6
72.5°	999.0	1367.3	1152.8	926.6	973.6
75°	756.1	1097.0	807.0	825.7	879.5
77.5°	551.4	842.4	627.8	723.8	767.9
80°	379.0	596.5	512.2	608.3	638.6
82.5°	238.0	393.7	410.4	489.8	521.1
85°	130.3	249.8	320.3	386.9	405.5
87.5°	53.8	150.8	244.8	298.8	314.4
90°	3.4	97.8	184.9	232.7	245.7
92.5°	8.2	82.3	165.9	211.1	222.0
95°	21.2	98.8	183.2	231.8	250.3
97.5°	111.1	160.0	229.2	273.1	285.0
100°	226.0	274.3	279.0	304.5	311.5
102.5°	358.7	377.4	322.0	311.5	310.4
105°	421.8	435.6	408.3	317.4	300.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	344.8	354.0	371.2	367.1	355.3
115°	298.8	302.7	320.2	325.6	322.8
117.5°	252.0	257.1	274.3	277.7	278.1
120°	212.3	218.2	232.6	234.2	235.1
122.5°	180.0	184.1	197.2	199.7	201.5
125°	149.1	155.8	168.8	170.1	171.9
127.5°	126.7	131.5	145.0	147.1	148.1
130°	111.3	115.5	124.5	129.2	129.2
132.5°	101.0	104.4	110.6	115.3	116.1
135°	91.3	94.7	98.9	104.6	105.6
137.5°	85.8	87.4	89.8	95.5	97.3
140°	79.3	81.7	82.4	87.1	88.1
142.5°	73.5	76.1	76.7	80.4	82.3
145°	69.4	72.0	72.8	74.6	76.4
147.5°	66.4	68.0	69.6	69.6	71.4
150°	63.9	64.7	65.6	66.4	66.4
152.5°	60.7	61.5	62.3	63.1	63.1
155°	58.3	60.1	60.9	61.7	60.7
157.5°	55.9	58.4	58.4	59.3	59.3
160°	54.2	56.0	56.8	56.8	56.8
162.5°	53.6	54.4	54.4	55.2	55.2
165°	52.8	52.8	53.6	53.6	53.6
167.5°	51.2	52.1	52.0	52.0	52.0
170°	50.4	50.4	50.4	50.2	50.2
172.5°	49.6	49.6	49.6	48.6	48.6
175°	48.7	48.7	47.8	46.8	46.8
177.5°	48.9	48.7	47.8	46.8	45.8
180°	47.0	47.0	47.0	47.0	47.0



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	425.3	440.5	436.8	359.3	309.5
110°	390.7	406.1	412.8	388.5	349.2



(END OF REPORT)