

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: P827759

Luminaire Tested: **OHBL-24SE-NL-UNV-L930-CD-UPL36**

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P827759
REPORT IS A COMBINATION OF REPORTS P826309 AND G3-2310-221-2
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-24SE-NL-UNV-L930-CD-UPL36
Description:
Light Source: -
Ballast/Driver: -

Summary

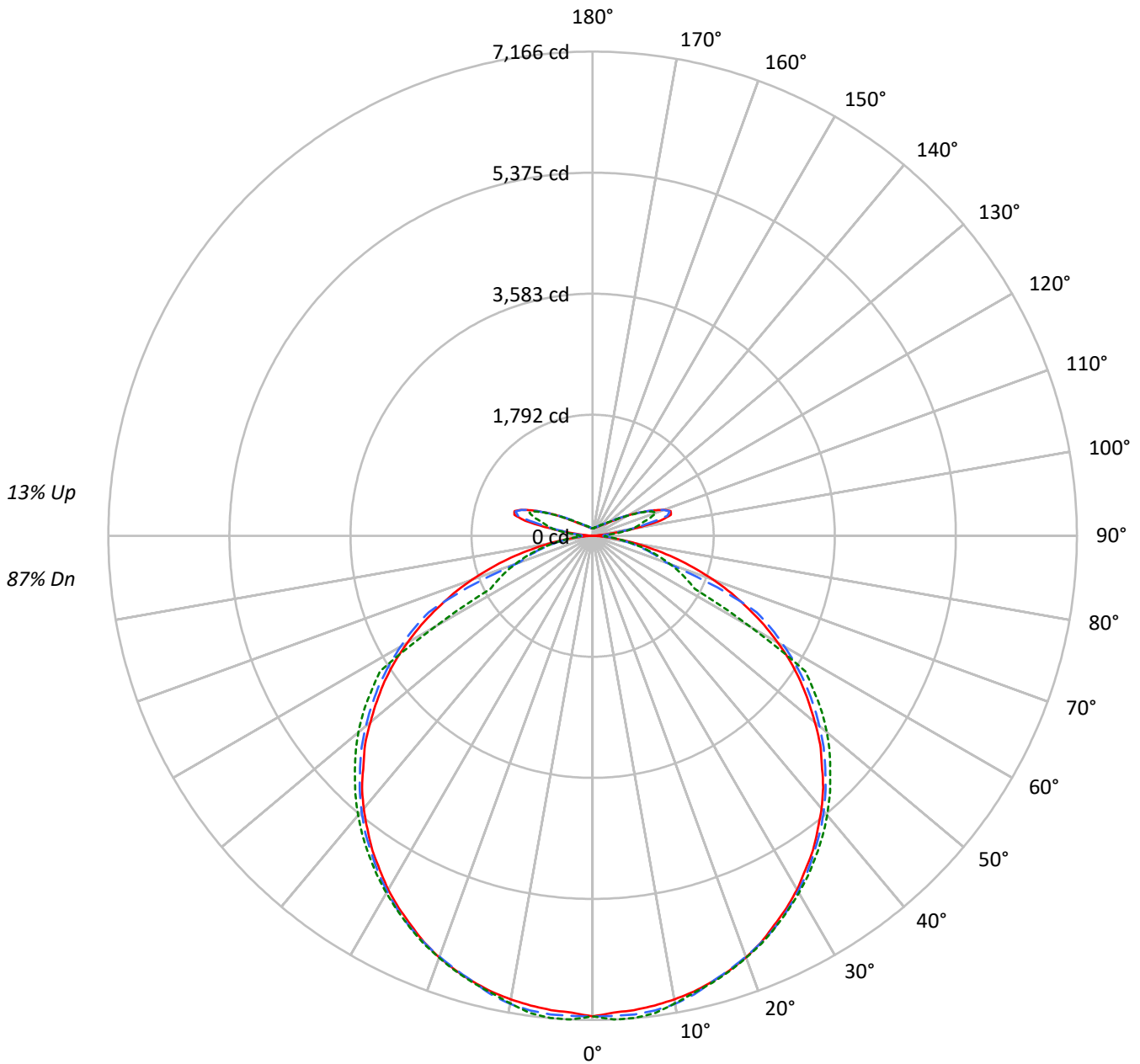
Lumens per Lamp: N/A
Luminaire Lumens: 22867.0 lumens
Efficiency: N/A
Efficacy: 137.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 166.8
Input Voltage (V): NR
Input Current (Ain): 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				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	116	116	116	116	112	112	112	112	104	104	104	97	97	97	90	90	90	87				87
1	106	102	98	94	102	98	95	91	92	89	86	86	83	81	80	78	77	74				74
2	97	89	83	77	93	86	80	75	80	76	71	75	71	68	70	67	65	62				62
3	88	78	71	64	85	76	69	63	71	65	60	67	62	57	62	58	55	52				52
4	81	69	61	54	78	67	59	53	63	56	51	59	54	49	56	51	47	45				45
5	74	62	53	47	71	60	52	46	56	50	44	53	47	43	50	45	41	39				39
6	69	56	47	41	66	54	46	40	51	44	39	48	42	37	45	40	36	34				34
7	64	50	42	36	61	49	41	35	46	39	34	44	38	33	41	36	32	30				30
8	59	46	38	32	57	45	37	31	42	35	30	40	34	30	38	33	29	27				27
9	55	42	34	29	53	41	33	28	39	32	27	37	31	27	35	30	26	24				24
10	52	39	31	26	50	38	30	25	36	29	25	34	28	24	32	27	23	22				22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12149	12149	12149
5°	12019	12127	12255
10°	11959	12070	12129
15°	11892	11887	12023
20°	11809	11787	11963
25°	11658	11712	11908
30°	11530	11582	11857
35°	11374	11428	11810
40°	11186	11282	11775
45°	10924	11078	11702
50°	10644	10848	11655
55°	10305	10556	11457
60°	9795	10124	8851
65°	9064	9570	5896
70°	8123	4920	5636
75°	6744	4446	5255
80°	4736	3720	4601
85°	1899	2980	3982



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	675.8	3.0
10°-20°	1935.0	8.5
20°-30°	2944.2	12.9
30°-40°	3579.8	15.7
40°-50°	3764.0	16.5
50°-60°	3436.9	15.0
60°-70°	2203.3	9.6
70°-80°	1040.8	4.6
80°-90°	294.8	1.3
90°-100°	298.8	1.3
100°-110°	1028.2	4.5
110°-120°	839.4	3.7
120°-130°	394.6	1.7
130°-140°	199.8	0.9
140°-150°	116.8	0.5
150°-160°	68.5	0.3
160°-170°	35.6	0.2
170°-180°	10.9	0.0
0°-30°	5555.0	24.3
0°-40°	9134.8	39.9
0°-60°	16335.7	71.4
0°-90°	19874.5	86.9
90°-120°	2166.4	9.5
90°-150°	2877.5	12.6
90°-180°	2992.0	13.1
0°-180°	22867.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7113	7113	7113	7113	7113	
5°	7047	7075	7111	7150	7164	670
15°	6834	6885	6832	6842	6848	1929
25°	6359	6369	6392	6402	6397	2934
35°	5684	5650	5715	5785	5769	3552
45°	4794	4785	4867	4981	4973	3706
55°	3757	3728	3854	3983	3993	3351
65°	2531	2531	2678	1536	1542	2510
75°	1251	1274	828	871	875	1318
85°	163	207	258	280	265	242
90°	6	110	166	194	193	12
95°	54	136	216	281	294	189
105°	1200	1205	1140	853	771	1141
115°	839	830	840	842	826	846
125°	410	424	434	427	419	386
135°	242	248	255	257	258	192
145°	176	180	184	187	188	112
155°	142	145	147	149	149	67
165°	122	124	124	125	126	35
175°	112	112	112	112	113	11
180°	110	110	110	110	110	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7113.3	7113.3	7113.3	7113.3	<i>7113.3</i>
2.5°	<i>7063.4</i>	<i>7087.1</i>	<i>7113.3</i>	<i>7147.0</i>	<i>7165.6</i>
5°	7047.1	7074.6	7110.8	7149.5	<i>7164.5</i>
7.5°	7012.2	7050.8	7085.8	7113.3	<i>7122.1</i>
10°	6968.5	7014.7	7034.7	7032.2	<i>7026.0</i>
12.5°	6909.8	6958.6	6952.4	6923.5	<i>6928.6</i>
15°	6833.7	6884.8	6832.5	6842.5	<i>6847.5</i>
17.5°	6743.8	6793.8	6732.6	6752.6	<i>6753.9</i>
20°	6639.1	6676.4	6629.0	6645.2	<i>6645.2</i>
22.5°	6513.0	6539.2	6519.2	6530.4	<i>6533.0</i>
25°	6359.4	6369.3	6391.8	6401.8	<i>6396.8</i>
27.5°	6212.2	6199.7	6243.4	6267.1	<i>6254.5</i>
30°	6048.6	6028.6	6079.8	6118.5	<i>6103.6</i>
32.5°	5861.4	5848.9	5907.6	5953.8	<i>5945.0</i>
35°	5684.2	5650.5	5715.3	5785.2	<i>5769.0</i>
37.5°	5474.4	5454.5	5528.1	5601.8	<i>5593.1</i>
40°	5269.8	5236.1	5319.7	5407.0	<i>5398.3</i>
42.5°	5050.1	5010.0	5101.2	5206.2	<i>5196.1</i>
45°	4794.1	4785.4	4866.6	4981.4	<i>4972.7</i>
47.5°	4567.2	4523.4	4636.9	4748.1	<i>4758.1</i>
50°	4292.4	4276.2	4379.9	4514.7	<i>4524.6</i>
52.5°	4024.1	4012.9	4121.4	4257.5	<i>4275.0</i>
55°	3757.0	3728.3	3854.3	3982.9	<i>3992.9</i>
57.5°	3471.2	3441.2	3569.8	3709.6	<i>3730.8</i>
60°	3165.4	3136.7	3277.6	3407.5	<i>2709.8</i>
62.5°	2859.6	2839.6	2987.0	2115.7	<i>1705.1</i>
65°	2531.3	2531.3	2678.5	1536.5	<i>1541.5</i>
67.5°	2224.3	2204.3	1997.1	1380.4	<i>1380.4</i>
70°	1894.7	1902.3	1150.7	1209.5	<i>1210.7</i>
72.5°	1564.0	1591.4	993.6	1040.9	<i>1043.4</i>
75°	1250.7	1274.4	827.5	871.2	<i>874.9</i>
77.5°	918.7	706.5	665.3	699.0	<i>700.3</i>
80°	645.3	445.6	509.3	541.7	<i>537.9</i>
82.5°	376.8	312.0	373.2	397.0	<i>395.7</i>
85°	163.4	207.2	258.3	279.6	<i>264.6</i>
87.5°	52.3	128.6	160.9	173.5	<i>172.2</i>
90°	6.5	109.5	165.8	194.2	<i>192.6</i>
92.5°	20.2	103.3	162.2	202.5	<i>208.6</i>
95°	53.8	136.4	215.8	280.9	<i>293.8</i>
97.5°	304.8	351.1	340.8	424.5	<i>446.4</i>
100°	651.6	687.2	555.2	583.0	<i>600.4</i>
102.5°	1023.1	1048.1	838.5	714.1	<i>691.1</i>
105°	1200.1	1205.2	1140.3	853.4	<i>771.3</i>



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	985.6	990.5	985.4	978.4	943.7
115°	838.8	830.0	840.2	842.1	826.5
117.5°	712.1	704.1	710.5	707.3	698.4
120°	599.0	599.0	607.1	595.7	589.3
122.5°	496.3	507.6	513.3	505.2	494.7
125°	409.8	424.4	434.1	426.8	418.7
127.5°	351.6	356.5	367.8	363.8	363.8
130°	302.3	308.8	317.7	319.3	317.7
132.5°	268.4	274.8	282.9	285.3	287.8
135°	242.5	248.2	254.6	257.0	257.9
137.5°	221.5	226.3	231.2	235.2	236.0
140°	203.7	208.6	213.4	216.6	216.6
142.5°	189.2	194.0	198.0	200.5	200.5
145°	176.2	180.3	184.3	186.7	187.5
147.5°	166.5	169.8	173.8	174.6	175.4
150°	157.6	160.0	163.3	164.9	165.7
152.5°	149.5	152.0	155.2	156.0	156.8
155°	142.3	144.7	147.1	148.7	148.7
157.5°	135.8	138.2	140.6	141.5	141.5
160°	131.0	132.6	135.0	135.0	135.8
162.5°	126.1	127.7	129.3	130.1	131.0
165°	122.1	123.7	124.5	125.3	126.1
167.5°	118.8	119.6	120.4	121.2	121.2
170°	115.6	116.4	117.2	117.2	118.0
172.5°	113.2	114.0	114.8	114.8	114.8
175°	111.6	111.6	112.4	112.4	113.2
177.5°	109.9	110.7	110.7	110.7	111.6
180°	109.9	109.9	109.9	109.9	109.9



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	1211.4	1220.1	1196.0	1049.1	901.0
110°	1119.8	1134.0	1119.1	1068.1	995.5



(END OF REPORT)