

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: P827605

Luminaire Tested: **OHB-24SE-MCL-UNV-L930-CD-UPL24**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P827605
REPORT IS A COMBINATION OF REPORTS P826210 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: OHB-24SE-MCL-UNV-L930-CD-UPL24
Description:
Light Source: -
Ballast/Driver: -

Summary

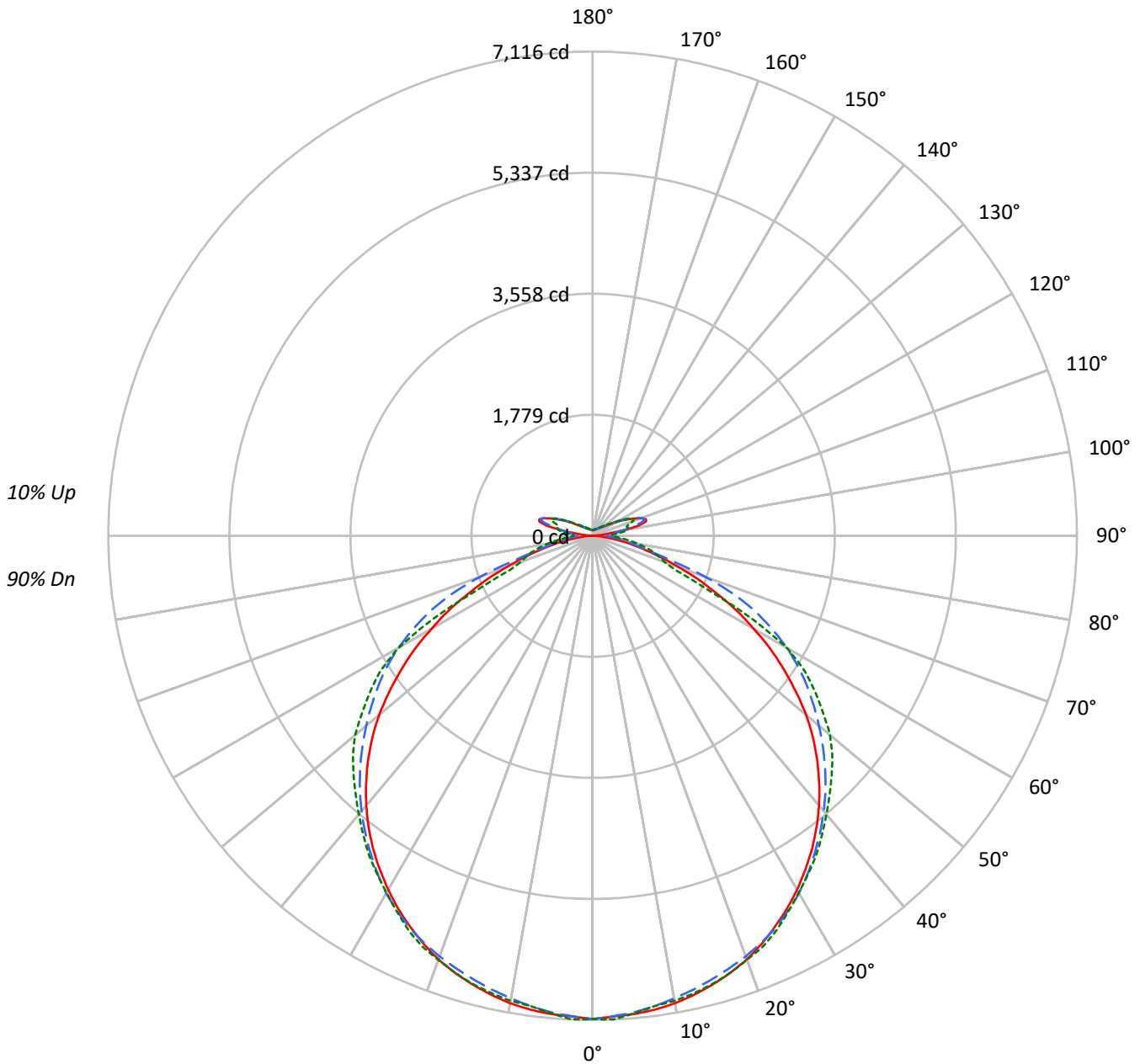
Lumens per Lamp: N/A
Luminaire Lumens: 22028.1 lumens
Efficiency: N/A
Efficacy: 134.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.93' x L: 1.67' x H: 0.17')
CIE Type: Direct

Input Watts (W): 164
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: P827605

CATALOG NUMBER: OHB-24SE-MCL-UNV-L930-CD-UPL24

Luminous Intensity Polar Plot





TEST NUMBER: P827605

CATALOG NUMBER: OHB-24SE-MCL-UNV-L930-CD-UPL24

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	117	117	117	117	113	113	113	113	106	106	106	99	99	99	93	93	93	93	93	93	90
1	107	102	98	94	103	99	95	92	93	90	87	87	85	83	82	80	79	79	79	79	76
2	97	89	83	77	94	87	81	76	82	77	72	77	73	69	73	69	66	66	66	66	64
3	89	79	71	64	86	76	69	63	72	66	61	68	63	59	64	60	56	56	56	56	54
4	81	70	61	55	78	68	60	54	64	57	52	61	55	50	57	53	49	49	49	49	46
5	75	62	53	47	72	61	52	46	57	50	45	54	48	44	52	46	42	42	42	42	40
6	69	56	47	41	66	54	46	40	52	45	39	49	43	38	47	41	37	37	37	37	35
7	64	51	42	36	62	49	41	36	47	40	35	45	38	34	43	37	33	33	33	33	31
8	59	46	38	32	57	45	37	32	43	36	31	41	35	30	39	34	29	29	29	29	27
9	55	42	34	29	54	41	34	28	39	33	28	38	32	27	36	31	26	26	26	26	25
10	52	39	31	26	50	38	31	26	36	30	25	35	29	25	33	28	24	24	24	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	23722	23722	23722
5°	23453	23307	23440
10°	23254	22885	23192
15°	22991	22553	23050
20°	22727	22317	22859
25°	22332	22078	22671
30°	21909	21743	22256
35°	21421	21251	22035
40°	20820	20741	21729
45°	20034	20159	21606
50°	19014	19501	21456
55°	17493	18840	20681
60°	15559	17914	19148
65°	13112	16303	12158
70°	10306	12563	8838
75°	7450	7322	9004
80°	4878	5915	8650
85°	2441	5137	8206



TEST NUMBER: P827605

CATALOG NUMBER: OHB-24SE-MCL-UNV-L930-CD-UPL24

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	669.6	3.0
10°-20°	1920.1	8.7
20°-30°	2932.6	13.3
30°-40°	3558.2	16.2
40°-50°	3729.4	16.9
50°-60°	3379.4	15.3
60°-70°	2265.7	10.3
70°-80°	1017.4	4.6
80°-90°	374.2	1.7
90°-100°	298.5	1.4
100°-110°	703.1	3.2
110°-120°	584.4	2.7
120°-130°	282.3	1.3
130°-140°	144.0	0.7
140°-150°	84.4	0.4
150°-160°	50.2	0.2
160°-170°	26.7	0.1
170°-180°	8.2	0.0
0°-30°	5522.3	25.1
0°-40°	9080.5	41.2
0°-60°	16189.2	73.5
0°-90°	19846.5	90.1
90°-120°	1586.0	7.2
90°-150°	2096.6	9.5
90°-180°	2182.0	9.9
0°-180°	22028.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7101	7101	7101	7101	7101	
5°	7055	7080	7031	7052	7043	671
15°	6826	6800	6751	6811	6819	1927
25°	6342	6314	6358	6417	6398	2923
35°	5621	5634	5692	5752	5730	3513
45°	4665	4741	4829	4952	4968	3594
55°	3433	3598	3843	3997	3988	3064
65°	2015	2330	2645	2232	1822	2007
75°	793	1150	846	866	922	866
85°	136	262	336	406	425	167
90°	5	115	212	268	284	11
95°	44	144	258	329	357	135
105°	815	826	741	557	520	774
115°	568	577	595	601	599	572
125°	280	296	312	314	313	263
135°	171	175	182	189	191	135
145°	126	131	133	135	137	81
155°	104	107	108	109	108	49
165°	92	93	94	94	94	26
175°	84	85	84	84	84	8
180°	83	83	83	83	83	



TEST NUMBER: P827605

CATALOG NUMBER: OHB-24SE-MCL-UNV-L930-CD-UPL24

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7101.4	7101.4	7101.4	7101.4	7101.4
2.5°	7072.7	7102.4	7065.5	7105.5	7115.8
5°	7055.2	7079.9	7030.6	7052.1	7042.8
7.5°	7023.4	7031.5	6973.0	6990.5	6972.0
10°	6976.2	6972.0	6903.2	6937.1	6941.2
12.5°	6906.3	6894.0	6832.4	6883.7	6884.7
15°	6826.2	6799.5	6751.3	6810.8	6819.0
17.5°	6733.8	6698.9	6667.1	6744.1	6731.7
20°	6626.0	6584.9	6578.8	6662.9	6632.1
22.5°	6492.5	6460.7	6475.1	6555.1	6535.6
25°	6341.5	6313.8	6357.9	6416.6	6398.0
27.5°	6182.4	6166.0	6216.3	6261.4	6225.5
30°	6007.9	5998.6	6065.3	6102.4	6057.2
32.5°	5817.9	5821.0	5884.7	5934.9	5892.8
35°	5620.7	5634.1	5691.6	5752.2	5729.5
37.5°	5404.1	5433.9	5491.3	5560.1	5536.5
40°	5175.1	5218.2	5281.9	5365.1	5343.5
42.5°	4927.7	4982.1	5064.2	5156.6	5154.6
45°	4664.8	4740.8	4829.1	4952.3	4967.7
47.5°	4391.7	4476.9	4588.8	4753.1	4776.7
50°	4094.9	4201.7	4341.3	4538.5	4552.9
52.5°	3764.2	3910.1	4094.9	4283.8	4266.4
55°	3432.6	3597.9	3843.3	3997.4	3988.2
57.5°	3102.0	3287.8	3585.6	3695.5	3694.5
60°	2732.3	2967.5	3293.0	3376.2	3294.0
62.5°	2390.4	2643.0	2980.8	2920.3	2638.9
65°	2014.6	2329.9	2645.0	2232.3	1822.5
67.5°	1680.8	2009.4	2246.7	1528.9	1309.2
70°	1345.1	1707.6	1751.7	1134.7	1119.2
72.5°	1047.4	1433.4	1208.5	971.4	1020.7
75°	792.7	1150.0	846.1	865.6	922.1
77.5°	578.1	883.0	658.1	758.8	805.0
80°	397.4	625.3	537.1	637.6	669.5
82.5°	249.5	412.8	430.2	513.4	546.3
85°	136.5	261.8	335.8	405.6	425.1
87.5°	56.5	158.1	256.7	313.1	329.6
90°	5.1	114.8	211.5	267.8	283.7
92.5°	14.8	103.1	199.9	258.0	275.7
95°	43.9	144.1	258.2	329.1	357.4
97.5°	219.5	278.4	352.6	426.5	457.3
100°	449.3	509.7	465.5	504.8	515.2
102.5°	693.6	714.2	569.4	532.0	528.6
105°	814.9	825.5	740.8	556.6	520.2



TEST NUMBER: P827605

CATALOG NUMBER: OHB-24SE-MCL-UNV-L930-CD-UPL24

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	660.3	677.2	684.8	675.4	651.7
115°	567.6	577.3	594.8	601.4	598.6
117.5°	486.8	489.6	508.3	513.6	516.4
120°	404.3	414.2	434.8	435.9	432.1
122.5°	340.5	350.2	366.3	369.8	366.0
125°	280.4	296.0	311.9	314.2	312.7
127.5°	239.4	249.9	266.2	270.1	270.3
130°	209.5	217.0	230.2	235.1	236.0
132.5°	187.9	194.6	203.3	210.7	209.8
135°	170.9	175.2	181.9	188.6	191.3
137.5°	158.2	160.6	165.5	173.1	174.0
140°	146.1	149.3	152.3	158.0	159.9
142.5°	134.5	138.8	141.0	145.7	146.7
145°	126.4	130.7	133.1	135.0	136.8
147.5°	120.2	123.4	125.0	126.7	127.7
150°	114.5	116.2	118.6	119.4	120.2
152.5°	108.9	110.5	112.9	113.7	113.7
155°	104.0	106.7	108.3	109.1	108.1
157.5°	100.0	102.7	104.3	105.1	105.1
160°	96.8	98.6	100.2	101.0	101.0
162.5°	94.6	95.4	96.2	97.0	97.0
165°	92.2	93.0	93.8	93.8	93.8
167.5°	89.7	90.7	90.5	91.3	91.3
170°	87.3	88.1	88.1	87.9	87.9
172.5°	85.7	86.5	86.5	85.4	86.2
175°	84.1	84.9	83.8	83.6	83.6
177.5°	85.0	84.1	83.0	82.0	81.0
180°	83.0	83.0	83.0	83.0	83.0



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	819.2	836.7	804.5	649.8	553.3
110°	757.1	774.6	764.0	710.9	633.8



(END OF REPORT)