

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: P827802

Luminaire Tested: **OHBL-36SE-MCL-UNV-L930-CD-UPL36**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P827802  
REPORT IS A COMBINATION OF REPORTS P826318 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-36SE-MCL-UNV-L930-CD-UPL36  
Description:  
Light Source: -  
Ballast/Driver: -

**Summary**

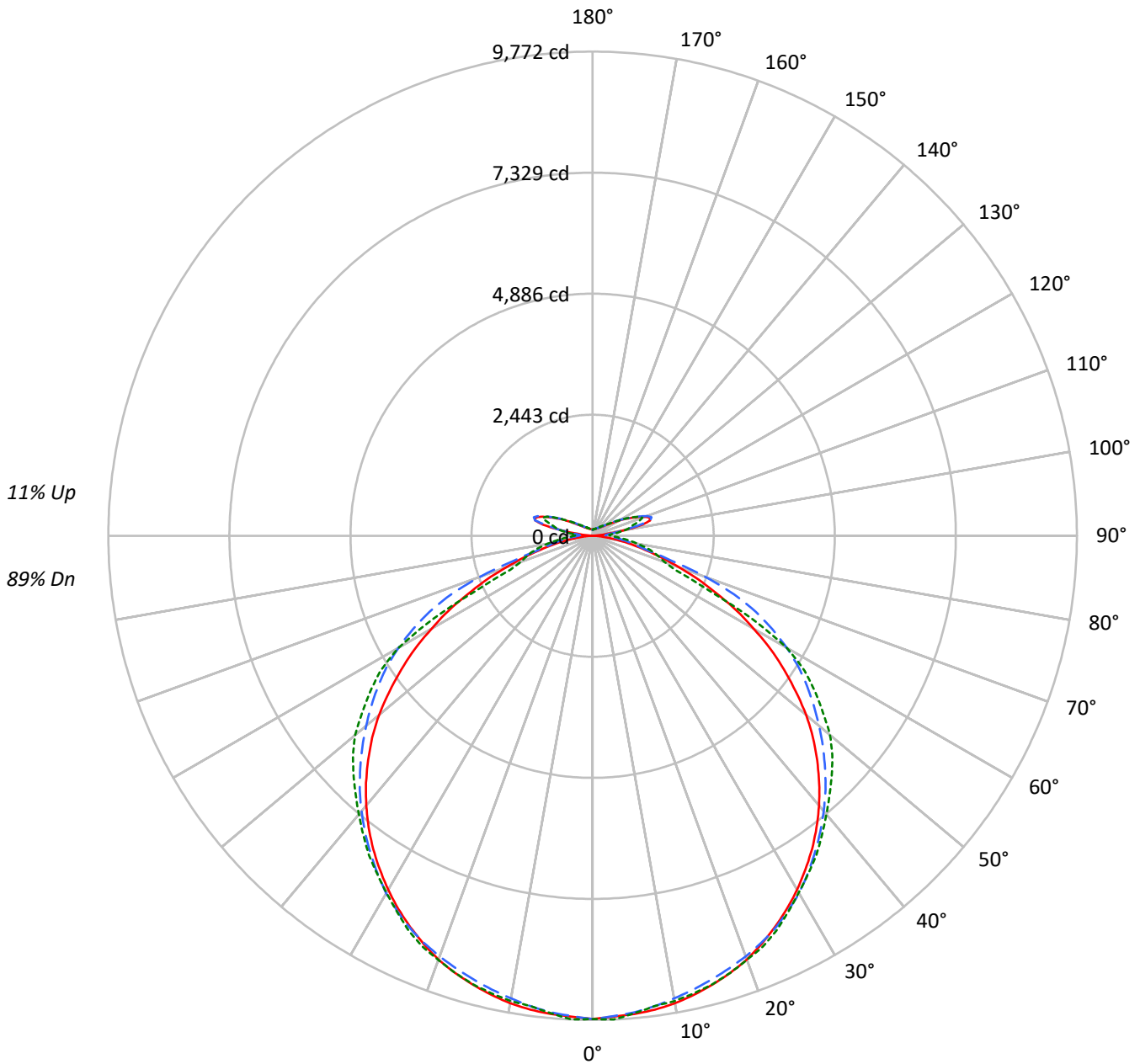
Lumens per Lamp: N/A  
Luminaire Lumens: 30461.3 lumens  
Efficiency: N/A  
Efficacy: 127.0 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')  
CIE Type: Semi-Direct

Input Watts (W): 239.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: P827802

CATALOG NUMBER: OHBL-36SE-MCL-UNV-L930-CD-UPL36

### Luminous Intensity Polar Plot





TEST NUMBER: P827802

CATALOG NUMBER: OHBL-36SE-MCL-UNV-L930-CD-UPL36

**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	105	105	105	99	99	99	92	92	92	89			
1	107	102	98	94	103	99	95	92	93	90	87	87	85	83	82	80	78	76			
2	97	89	83	77	94	87	81	76	81	76	72	77	73	69	72	69	66	63			
3	89	79	71	64	85	76	69	63	72	66	61	68	63	58	64	60	56	54			
4	81	70	61	55	78	68	60	54	64	57	52	60	55	50	57	52	48	46			
5	75	62	53	47	72	60	52	46	57	50	45	54	48	43	51	46	42	40			
6	69	56	47	41	66	54	46	40	52	44	39	49	43	38	46	41	37	35			
7	64	51	42	36	61	49	41	36	47	40	35	44	38	34	42	37	33	31			
8	59	46	38	32	57	45	37	32	43	36	31	41	35	30	39	33	29	27			
9	55	42	34	29	53	41	34	28	39	32	28	37	31	27	36	30	26	24			
10	52	39	31	26	50	38	31	26	36	30	25	35	29	24	33	28	24	22			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	15424	15424	15424
5°	15258	15200	15296
10°	15138	14969	15190
15°	14978	14797	15154
20°	14815	14689	15087
25°	14568	14580	15024
30°	14303	14408	14814
35°	13996	14134	14737
40°	13615	13852	14610
45°	13114	13526	14614
50°	12461	13154	14616
55°	11480	12788	14207
60°	10228	12253	13293
65°	8638	11260	8558
70°	6810	8790	6340
75°	4944	5218	6644
80°	3258	4338	6699
85°	1653	3976	7044



TEST NUMBER: P827802

CATALOG NUMBER: OHBL-36SE-MCL-UNV-L930-CD-UPL36

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	919.6	3.0
10°-20°	2637.0	8.7
20°-30°	4027.5	13.2
30°-40°	4886.7	16.0
40°-50°	5121.7	16.8
50°-60°	4641.1	15.2
60°-70°	3111.7	10.2
70°-80°	1397.3	4.6
80°-90°	513.3	1.7
90°-100°	375.0	1.2
100°-110°	1079.3	3.5
110°-120°	869.7	2.9
120°-130°	414.5	1.4
130°-140°	213.4	0.7
140°-150°	126.0	0.4
150°-160°	75.3	0.2
160°-170°	40.0	0.1
170°-180°	12.3	0.0
0°-30°	7584.1	24.9
0°-40°	12470.8	40.9
0°-60°	22233.6	73.0
0°-90°	27255.8	89.5
90°-120°	2324.0	7.6
90°-150°	3077.9	10.1
90°-180°	3205.0	10.5
0°-180°	30461.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9753	9753	9753	9753	9753	
5°	9689	9723	9656	9685	9672	922
15°	9375	9338	9272	9354	9365	2647
25°	8709	8671	8732	8812	8787	4014
35°	7719	7738	7817	7900	7869	4825
45°	6406	6511	6632	6801	6822	4935
55°	4714	4941	5278	5490	5477	4208
65°	2767	3200	3633	3066	2503	2757
75°	1089	1579	1162	1189	1266	1190
85°	188	360	461	557	584	229
90°	8	160	289	357	372	16
95°	52	175	297	369	387	188
105°	1200	1224	1201	931	854	1141
115°	844	838	869	886	880	852
125°	420	436	460	456	450	395
135°	255	262	270	280	282	202
145°	189	194	198	202	204	121
155°	156	160	163	164	163	73
165°	138	139	140	141	142	39
175°	127	127	126	125	126	12
180°	124	124	124	124	124	



TEST NUMBER: P827802

CATALOG NUMBER: OHBL-36SE-MCL-UNV-L930-CD-UPL36

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	9752.8	9752.8	9752.8	9752.8	9752.8
2.5°	9713.3	9754.2	9703.5	9758.4	9772.5
5°	9689.3	9723.2	9655.5	9685.1	9672.4
7.5°	9645.6	9656.9	9576.5	9600.5	9575.1
10°	9580.8	9575.1	9480.6	9527.2	9532.8
12.5°	9484.9	9467.9	9383.3	9453.9	9455.2
15°	9374.9	9338.2	9271.9	9353.7	9365.0
17.5°	9248.0	9200.0	9156.3	9262.0	9245.2
20°	9099.9	9043.5	9035.0	9150.7	9108.4
22.5°	8916.6	8872.8	8892.6	9002.6	8975.8
25°	8709.2	8671.2	8731.9	8812.2	8786.8
27.5°	8490.7	8468.1	8537.2	8599.3	8549.9
30°	8251.0	8238.3	8330.0	8380.7	8318.6
32.5°	7990.1	7994.3	8081.7	8150.8	8093.0
35°	7719.3	7737.7	7816.6	7899.8	7868.8
37.5°	7421.8	7462.7	7541.7	7636.1	7603.7
40°	7107.3	7166.5	7254.0	7368.2	7338.5
42.5°	6767.4	6842.2	6955.0	7081.9	7079.1
45°	6406.4	6510.8	6632.1	6801.3	6822.4
47.5°	6031.3	6148.3	6302.1	6527.7	6560.2
50°	5623.8	5770.4	5962.3	6233.0	6252.7
52.5°	5169.7	5370.0	5623.8	5883.3	5859.3
55°	4714.2	4941.3	5278.3	5489.8	5477.1
57.5°	4260.2	4515.4	4924.4	5075.2	5073.8
60°	3752.5	4075.5	4522.5	4636.7	4523.8
62.5°	3282.9	3629.8	4093.7	4010.5	3624.2
65°	2766.8	3199.7	3632.6	3065.8	2503.1
67.5°	2308.4	2759.7	3085.5	2099.7	1798.0
70°	1847.4	2345.1	2405.8	1558.2	1537.1
72.5°	1438.3	1968.6	1659.8	1334.0	1401.7
75°	1088.7	1579.4	1162.0	1188.8	1266.3
77.5°	793.9	1212.7	904.0	1042.1	1105.6
80°	545.7	858.8	737.5	875.7	919.4
82.5°	342.7	566.9	590.9	705.1	750.2
85°	187.5	359.6	461.2	557.0	583.8
87.5°	77.6	217.2	352.5	430.1	452.7
90°	7.8	159.5	289.2	357.1	372.1
92.5°	21.6	140.2	256.8	318.7	333.4
95°	51.5	175.0	297.0	368.6	387.2
97.5°	305.1	384.2	418.9	502.1	527.1
100°	653.3	715.5	630.7	658.8	679.2
102.5°	1022.5	1070.1	910.7	789.8	769.8
105°	1199.6	1223.9	1200.7	930.7	854.1



TEST NUMBER: P827802

CATALOG NUMBER: OHBL-36SE-MCL-UNV-L930-CD-UPL36

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	987.9	1000.2	1019.6	1029.0	1006.0
115°	843.9	838.2	868.6	885.5	880.3
117.5°	723.5	718.1	745.8	751.0	745.0
120°	610.3	611.7	638.1	633.8	628.7
122.5°	507.6	519.0	540.0	539.1	529.9
125°	419.7	435.7	459.5	456.4	449.8
127.5°	362.9	367.8	390.3	390.5	392.0
130°	313.6	321.5	337.4	344.7	343.1
132.5°	281.1	288.9	301.3	309.3	311.8
135°	255.2	262.2	270.1	279.6	281.9
137.5°	235.5	240.4	245.2	256.4	258.6
140°	217.8	222.6	226.1	235.0	236.4
142.5°	201.8	208.1	210.7	217.4	218.8
145°	188.9	194.3	198.4	202.2	204.4
147.5°	180.6	183.8	187.9	188.7	190.9
150°	171.7	174.1	177.3	179.0	179.8
152.5°	163.6	166.0	169.3	170.1	170.9
155°	156.3	160.2	162.6	164.3	162.8
157.5°	149.9	153.7	156.2	157.0	157.0
160°	145.0	148.1	150.5	150.5	151.3
162.5°	141.6	143.2	144.9	145.7	146.5
165°	137.6	139.2	140.0	140.8	141.6
167.5°	134.3	136.5	136.0	136.8	136.8
170°	131.1	131.9	132.7	131.3	132.1
172.5°	128.7	129.5	130.3	128.8	128.8
175°	127.1	127.1	126.4	125.0	125.9
177.5°	126.8	126.3	124.8	123.4	122.9
180°	124.0	124.0	124.0	124.0	124.0



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	1212.3	1234.4	1247.7	1121.1	983.3
110°	1120.8	1145.3	1162.0	1128.6	1067.6



(END OF REPORT)