

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: P827753

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P827753
REPORT IS A COMBINATION OF REPORTS P826307 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-MFL-UNV-L930-CD-UPL36
Description:
Light Source: -
Ballast/Driver: -

Summary

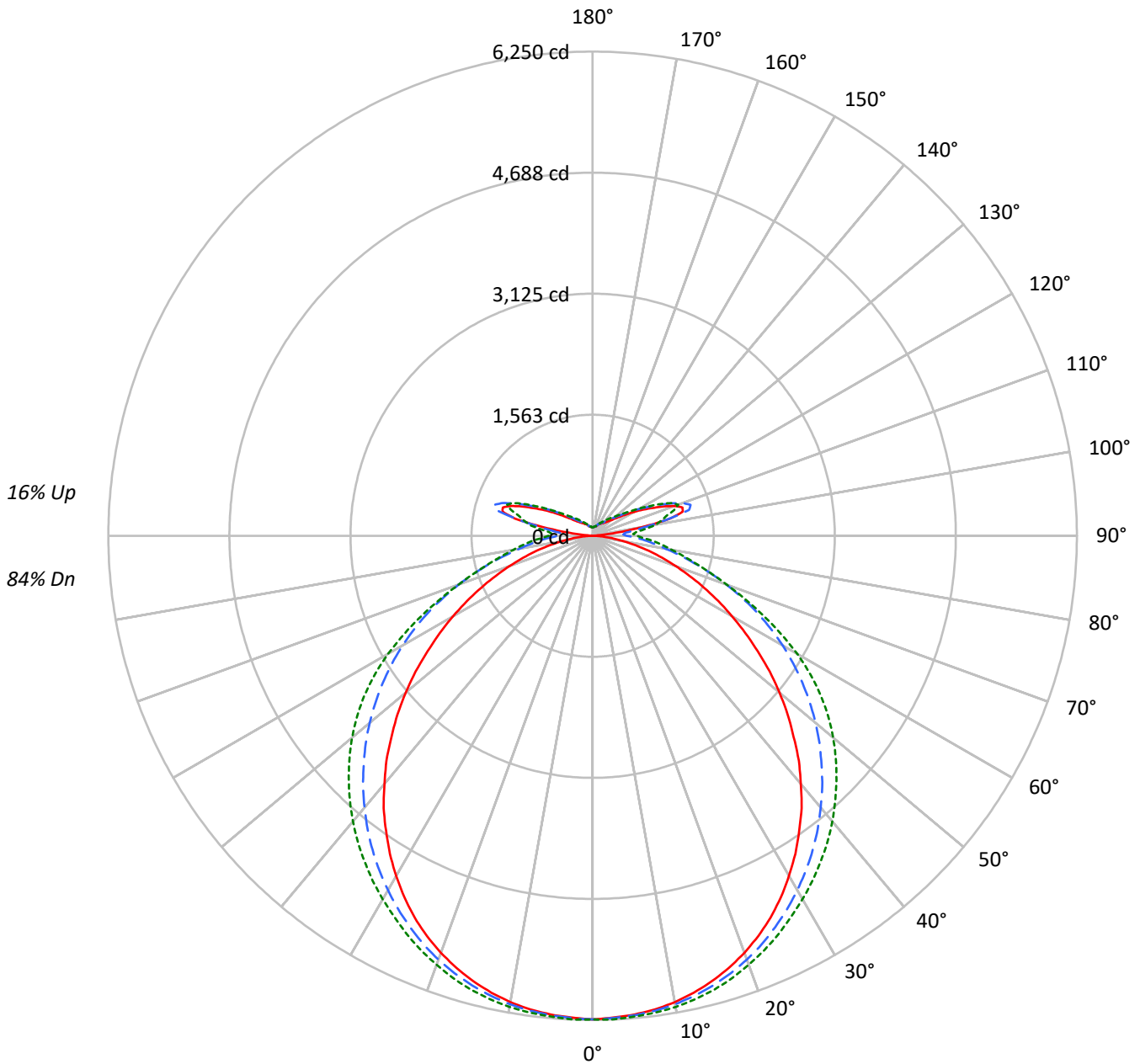
Lumens per Lamp: N/A
Luminaire Lumens: 21581.0 lumens
Efficiency: N/A
Efficacy: 129.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')
CIE Type: Semi-Direct

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

TEST NUMBER: P827753

CATALOG NUMBER: OHBL-24SE-MFL-UNV-L930-CD-UPL36

Luminous Intensity Polar Plot





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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	115	115	115	115	111	111	111	111	102	102	102	94	94	94	87	87	87	84																			
1	105	100	95	91	100	96	92	88	89	85	83	82	80	77	76	74	72	69																			
2	95	87	80	74	91	83	77	72	77	72	68	72	68	64	66	63	60	57																			
3	87	76	68	62	83	73	66	60	68	62	57	63	58	54	59	54	51	48																			
4	79	67	59	52	76	65	57	51	60	54	48	56	51	46	52	48	44	41																			
5	73	60	51	45	69	58	50	44	54	47	42	50	44	40	47	42	38	35																			
6	67	54	45	39	64	52	44	38	49	42	36	46	40	35	43	37	33	31																			
7	62	49	40	34	59	47	39	34	44	37	32	41	35	31	39	34	30	27																			
8	58	44	36	30	55	43	35	30	40	34	29	38	32	28	36	30	26	24																			
9	54	41	33	27	52	40	32	27	37	30	26	35	29	25	33	28	24	22																			
10	50	38	30	25	48	36	29	24	34	28	23	32	27	23	31	25	22	20																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10664	10664	10664
5°	10544	10558	10640
10°	10419	10460	10629
15°	10252	10344	10601
20°	10046	10203	10540
25°	9789	10028	10479
30°	9453	9839	10421
35°	9057	9638	10381
40°	8593	9406	10349
45°	8056	9154	10297
50°	7473	8899	10230
55°	6772	8587	10072
60°	6055	8221	9675
65°	5278	7754	8960
70°	4441	7160	8195
75°	3591	6473	7793
80°	2561	5962	8164
85°	1425	6142	10234



TEST NUMBER: P827753

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	591.6	2.7
10°-20°	1697.2	7.9
20°-30°	2566.7	11.9
30°-40°	3081.4	14.3
40°-50°	3182.6	14.7
50°-60°	2863.3	13.3
60°-70°	2156.9	10.0
70°-80°	1302.4	6.0
80°-90°	643.2	3.0
90°-100°	490.5	2.3
100°-110°	1160.3	5.4
110°-120°	923.5	4.3
120°-130°	445.4	2.1
130°-140°	226.5	1.0
140°-150°	129.8	0.6
150°-160°	73.3	0.3
160°-170°	35.6	0.2
170°-180°	10.9	0.1
0°-30°	4855.5	22.5
0°-40°	7936.9	36.8
0°-60°	13982.8	64.8
0°-90°	18085.2	83.8
90°-120°	2574.3	11.9
90°-150°	3375.9	15.6
90°-180°	3496.0	16.2
0°-180°	21581.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6243	6243	6243	6243	6243	
5°	6204	6220	6213	6237	6230	589
15°	5953	5982	6010	6060	6066	1678
25°	5437	5496	5574	5661	5675	2501
35°	4648	4757	4952	5102	5132	2906
45°	3669	3854	4176	4404	4451	2832
55°	2599	2868	3304	3553	3595	2330
65°	1586	1910	2338	2454	2426	1576
75°	747	1073	1354	1389	1375	797
85°	156	411	678	772	785	180
90°	6	200	439	547	568	14
95°	58	209	424	540	566	193
105°	1205	1254	1288	1053	982	1145
115°	845	856	932	972	970	854
125°	422	441	497	517	514	397
135°	253	262	287	312	319	200
145°	192	194	200	214	220	122
155°	158	162	162	162	164	71
165°	122	124	124	125	126	35
175°	112	112	112	112	113	11
180°	110	110	110	110	110	



TEST NUMBER: P827753

CATALOG NUMBER: OHBL-24SE-MFL-UNV-L930-CD-UPL36

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6243.4	6243.4	6243.4	<i>6243.4</i>	6243.4
2.5°	<i>6225.1</i>	<i>6240.3</i>	<i>6231.2</i>	<i>6251.0</i>	<i>6249.5</i>
5°	6203.6	6220.4	6212.8	<i>6237.3</i>	6229.7
7.5°	6167.0	6185.4	6183.8	<i>6211.3</i>	6208.2
10°	6113.5	6133.4	6139.5	<i>6176.2</i>	6176.2
12.5°	6040.2	6066.1	6081.4	<i>6125.7</i>	6127.2
15°	5953.1	5982.1	6009.6	<i>6060.1</i>	6066.1
17.5°	5847.6	5884.3	5922.5	<i>5980.6</i>	5988.2
20°	5728.5	5769.7	5821.7	<i>5882.8</i>	5891.9
22.5°	5590.9	5639.8	5707.1	<i>5778.9</i>	5789.6
25°	5436.6	5496.2	5574.1	<i>5661.2</i>	5675.0
27.5°	5260.9	5329.7	5435.1	<i>5532.9</i>	5545.1
30°	5069.9	5150.9	5282.3	<i>5398.5</i>	5418.3
32.5°	4868.2	4961.4	5123.4	<i>5253.3</i>	5280.8
35°	4648.2	4756.6	4952.3	<i>5102.0</i>	5132.5
37.5°	4431.2	4550.4	4771.9	<i>4943.0</i>	4979.7
40°	4177.5	4325.8	4579.4	<i>4768.8</i>	4813.2
42.5°	3939.2	4099.6	4386.9	<i>4593.2</i>	4636.0
45°	3668.7	3853.6	4176.0	<i>4403.7</i>	4451.1
47.5°	3415.0	3615.3	3972.8	<i>4208.1</i>	4257.0
50°	3147.6	3367.7	3755.8	<i>4001.8</i>	4052.3
52.5°	2880.3	3117.1	3531.2	<i>3786.4</i>	3833.8
55°	2599.1	2868.0	3303.5	<i>3552.6</i>	3595.4
57.5°	2337.9	2622.1	3069.7	<i>3306.6</i>	3332.6
60°	2079.6	2374.5	2831.3	<i>3039.2</i>	3048.4
62.5°	1827.5	2137.6	2586.9	<i>2751.9</i>	2739.7
65°	1586.0	1910.0	2337.9	<i>2453.9</i>	2426.5
67.5°	1353.8	1688.4	2082.7	<i>2157.5</i>	2120.8
70°	1133.8	1473.0	1835.2	<i>1873.3</i>	1839.7
72.5°	939.7	1268.3	1584.5	<i>1616.6</i>	1592.2
75°	747.2	1072.7	1353.8	<i>1389.0</i>	1375.2
77.5°	566.9	883.2	1141.4	<i>1187.3</i>	1190.3
80°	408.0	710.5	956.5	<i>1028.4</i>	1037.5
82.5°	268.9	551.6	802.2	<i>893.9</i>	907.6
85°	155.8	411.0	678.4	<i>771.6</i>	785.4
87.5°	67.3	296.4	545.5	<i>629.5</i>	646.3
90°	6.5	200.1	439.0	<i>547.2</i>	567.9
92.5°	24.8	181.5	395.4	<i>502.4</i>	524.0
95°	57.8	208.7	423.7	<i>539.6</i>	566.2
97.5°	311.5	416.6	534.2	<i>659.5</i>	692.7
100°	658.2	745.5	735.0	<i>803.2</i>	831.6
102.5°	1026.0	1101.0	1005.8	<i>921.7</i>	908.2
105°	1204.6	1254.1	1288.4	<i>1053.4</i>	981.7



TEST NUMBER: P827753

CATALOG NUMBER: OHBL-24SE-MFL-UNV-L930-CD-UPL36

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	990.3	1021.7	1087.8	1124.2	1104.5
115°	844.8	856.4	931.6	972.4	970.5
117.5°	725.9	734.6	802.2	832.6	828.3
120°	612.7	624.9	688.1	707.3	707.0
122.5°	510.1	529.1	585.1	606.1	600.1
125°	422.0	441.2	496.7	516.9	513.5
127.5°	362.3	370.2	421.3	444.7	449.4
130°	313.0	321.0	363.5	391.1	394.1
132.5°	279.0	288.6	321.2	348.0	356.6
135°	253.2	261.9	286.7	312.1	319.0
137.5°	232.2	240.1	257.1	282.6	289.5
140°	215.9	222.3	234.8	256.3	262.5
142.5°	202.9	207.7	214.9	234.1	238.7
145°	191.5	194.0	199.6	214.2	219.6
147.5°	181.8	185.0	189.1	196.0	201.4
150°	172.9	176.9	178.6	181.7	187.1
152.5°	164.8	168.8	170.5	169.8	173.6
155°	157.5	161.5	162.4	162.5	164.0
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°	1215.9	1262.7	1326.8	1233.5	1100.5
110°	1122.9	1171.7	1235.6	1232.3	1176.0



(END OF REPORT)