

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: P828102

Luminaire Tested: **OHBL-36SE-MCL-UNV-L935-CD-UPL36**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P828102
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-L935-CD-UPL36
Description:
Light Source: -
Ballast/Driver: -

Summary

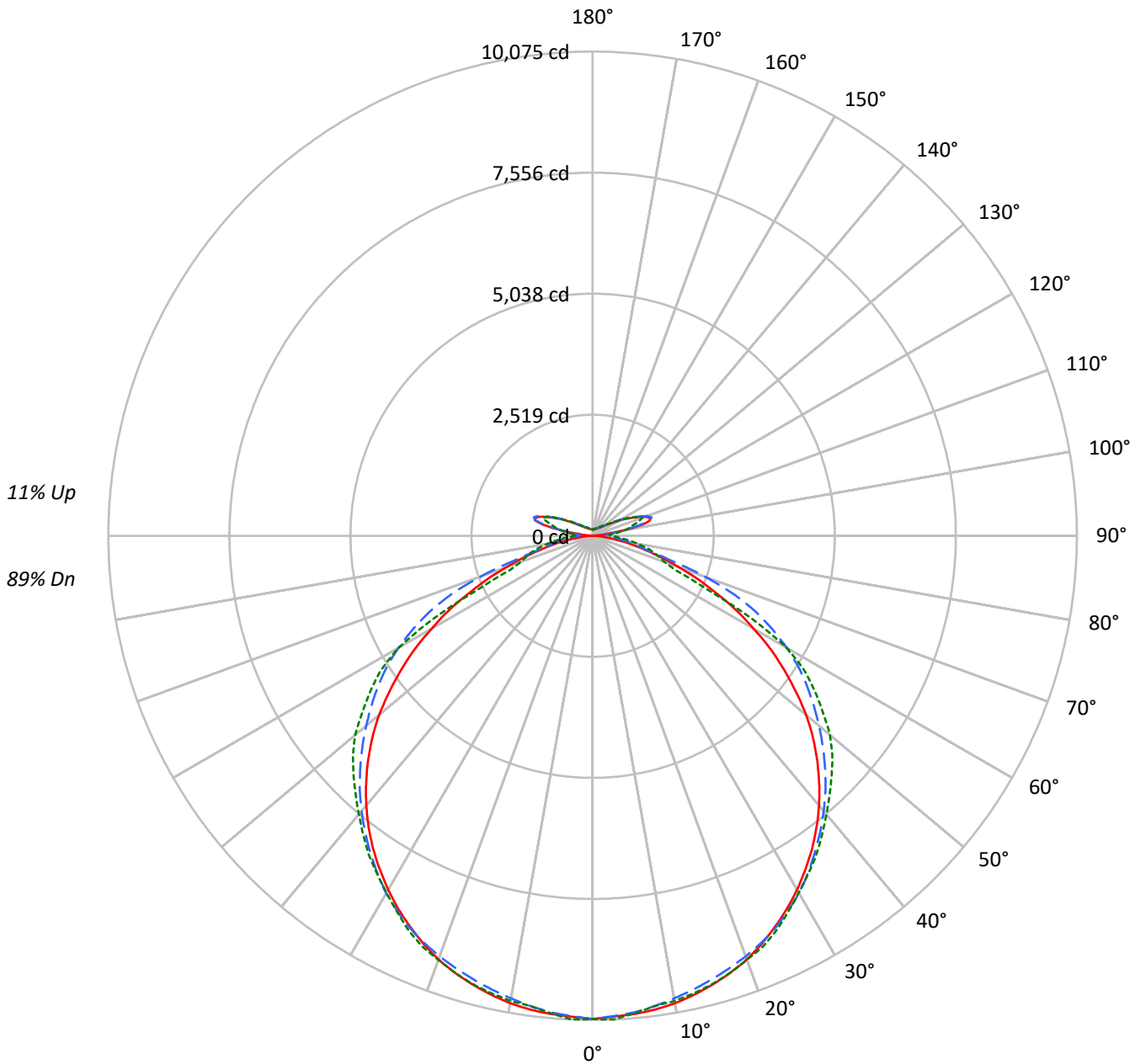
Lumens per Lamp: N/A
Luminaire Lumens: 31403.4 lumens
Efficiency: N/A
Efficacy: 131.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 239.8
Input Voltage (V): NR
Input Current (A_{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	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°	15901	15901	15901
5°	15730	15670	15769
10°	15607	15432	15660
15°	15441	15255	15623
20°	15274	15143	15554
25°	15019	15031	15489
30°	14745	14853	15272
35°	14428	14571	15193
40°	14036	14280	15062
45°	13519	13944	15066
50°	12847	13561	15068
55°	11835	13184	14646
60°	10545	12632	13705
65°	8905	11608	8822
70°	7020	9062	6536
75°	5096	5379	6850
80°	3359	4473	6905
85°	1704	4098	7261



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	948.0	3.0
10°-20°	2718.5	8.7
20°-30°	4152.0	13.2
30°-40°	5037.9	16.0
40°-50°	5280.2	16.8
50°-60°	4784.6	15.2
60°-70°	3207.9	10.2
70°-80°	1440.5	4.6
80°-90°	529.1	1.7
90°-100°	386.6	1.2
100°-110°	1112.6	3.5
110°-120°	896.6	2.9
120°-130°	427.3	1.4
130°-140°	220.0	0.7
140°-150°	129.9	0.4
150°-160°	77.7	0.2
160°-170°	41.3	0.1
170°-180°	12.6	0.0
0°-30°	7818.6	24.9
0°-40°	12856.5	40.9
0°-60°	22921.3	73.0
0°-90°	28098.8	89.5
90°-120°	2395.9	7.6
90°-150°	3173.0	10.1
90°-180°	3305.0	10.5
0°-180°	31403.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10054	10054	10054	10054	10054	
5°	9989	10024	9954	9985	9972	950
15°	9665	9627	9559	9643	9655	2729
25°	8979	8939	9002	9085	9059	4139
35°	7958	7977	8058	8144	8112	4974
45°	6605	6712	6837	7012	7033	5088
55°	4860	5094	5442	5660	5646	4338
65°	2852	3299	3745	3161	2580	2842
75°	1122	1628	1198	1226	1306	1227
85°	193	371	475	574	602	236
90°	8	164	298	368	384	16
95°	53	180	306	380	399	194
105°	1237	1262	1238	960	880	1177
115°	870	864	896	913	908	879
125°	433	449	474	470	464	408
135°	263	270	278	288	291	208
145°	195	200	204	208	211	125
155°	161	165	168	169	168	75
165°	142	144	144	145	146	41
175°	131	131	130	129	130	13
180°	128	128	128	128	128	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10054.4	10054.4	10054.4	10054.4	10054.4
2.5°	10013.8	10055.9	10003.6	10060.2	10074.8
5°	9989.0	10023.9	9954.1	9984.7	9971.6
7.5°	9943.9	9955.6	9872.7	9897.4	9871.2
10°	9877.1	9871.2	9773.8	9821.8	9827.7
12.5°	9778.2	9760.8	9673.5	9746.2	9747.7
15°	9664.8	9627.0	9558.7	9643.0	9654.7
17.5°	9534.0	9484.6	9439.5	9548.5	9531.1
20°	9381.3	9323.2	9314.4	9433.7	9390.1
22.5°	9192.3	9147.3	9167.6	9281.0	9253.4
25°	8978.6	8939.3	9001.9	9084.8	9058.6
27.5°	8753.2	8730.0	8801.2	8865.2	8814.3
30°	8506.2	8493.1	8587.6	8639.9	8575.9
32.5°	8237.2	8241.6	8331.7	8402.9	8343.3
35°	7958.1	7977.0	8058.3	8144.2	8112.2
37.5°	7651.3	7693.5	7774.9	7872.3	7838.8
40°	7327.1	7388.2	7478.3	7596.1	7565.5
42.5°	6976.8	7053.8	7170.1	7300.9	7298.0
45°	6604.6	6712.2	6837.2	7011.7	7033.4
47.5°	6217.8	6338.5	6497.0	6729.6	6763.1
50°	5797.8	5948.9	6146.7	6425.8	6446.1
52.5°	5329.6	5536.1	5797.8	6065.2	6040.5
55°	4860.0	5094.1	5441.6	5659.6	5646.5
57.5°	4391.9	4655.1	5076.7	5232.2	5230.8
60°	3868.6	4201.5	4662.3	4780.1	4663.8
62.5°	3384.4	3742.1	4220.3	4134.6	3736.2
65°	2852.3	3298.7	3745.0	3160.6	2580.5
67.5°	2379.8	2845.1	3180.9	2164.7	1853.6
70°	1904.5	2417.7	2480.2	1606.4	1584.7
72.5°	1482.8	2029.5	1711.1	1375.2	1445.1
75°	1122.3	1628.3	1197.9	1225.6	1305.5
77.5°	818.5	1250.2	931.9	1074.3	1139.8
80°	562.6	885.3	760.3	902.8	947.8
82.5°	353.2	584.4	609.2	726.9	773.4
85°	193.3	370.8	475.4	574.2	601.8
87.5°	80.0	223.9	363.4	443.4	466.7
90°	8.1	164.4	298.2	368.2	383.6
92.5°	22.2	144.5	264.8	328.6	343.8
95°	53.1	180.4	306.2	380.0	399.2
97.5°	314.6	396.1	431.8	517.6	543.4
100°	673.5	737.6	650.2	679.2	700.2
102.5°	1054.2	1103.2	938.8	814.2	793.6
105°	1236.7	1261.8	1237.8	959.5	880.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1018.5	1031.2	1051.1	1060.8	1037.1
115°	870.0	864.1	895.5	912.9	907.5
117.5°	745.8	740.3	768.8	774.2	768.0
120°	629.2	630.6	657.8	653.4	648.2
122.5°	523.3	535.0	556.8	555.8	546.3
125°	432.7	449.2	473.7	470.5	463.7
127.5°	374.2	379.2	402.4	402.6	404.1
130°	323.3	331.4	347.8	355.3	353.7
132.5°	289.8	297.8	310.6	318.9	321.4
135°	263.1	270.3	278.5	288.2	290.6
137.5°	242.8	247.8	252.8	264.3	266.6
140°	224.5	229.5	233.1	242.2	243.7
142.5°	208.1	214.5	217.2	224.1	225.6
145°	194.8	200.3	204.5	208.5	210.8
147.5°	186.2	189.5	193.7	194.5	196.8
150°	177.0	179.5	182.8	184.5	185.3
152.5°	168.7	171.2	174.5	175.3	176.2
155°	161.2	165.2	167.7	169.3	167.8
157.5°	154.5	158.5	161.0	161.8	161.8
160°	149.5	152.7	155.2	155.2	156.0
162.5°	146.0	147.7	149.3	150.2	151.0
165°	141.8	143.5	144.3	145.2	146.0
167.5°	138.5	140.8	140.2	141.0	141.0
170°	135.2	136.0	136.8	135.3	136.2
172.5°	132.7	133.5	134.3	132.8	132.8
175°	131.0	131.0	130.3	128.9	129.8
177.5°	130.8	130.2	128.7	127.2	126.7
180°	127.8	127.8	127.8	127.8	127.8



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	1249.8	1272.6	1286.2	1155.8	<i>1013.7</i>
110°	1155.4	1180.8	1197.9	1163.5	<i>1100.6</i>



(END OF REPORT)