

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: P828401

Luminaire Tested: **OHBL-36SE-MCL-UNV-L940-CD-UPL18**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P828401
REPORT IS A COMBINATION OF REPORTS P826174 AND G3-2310-221-8
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-36SE-MCL-UNV-L940-CD-UPL18
Description:
Light Source: -
Ballast/Driver: -

Summary

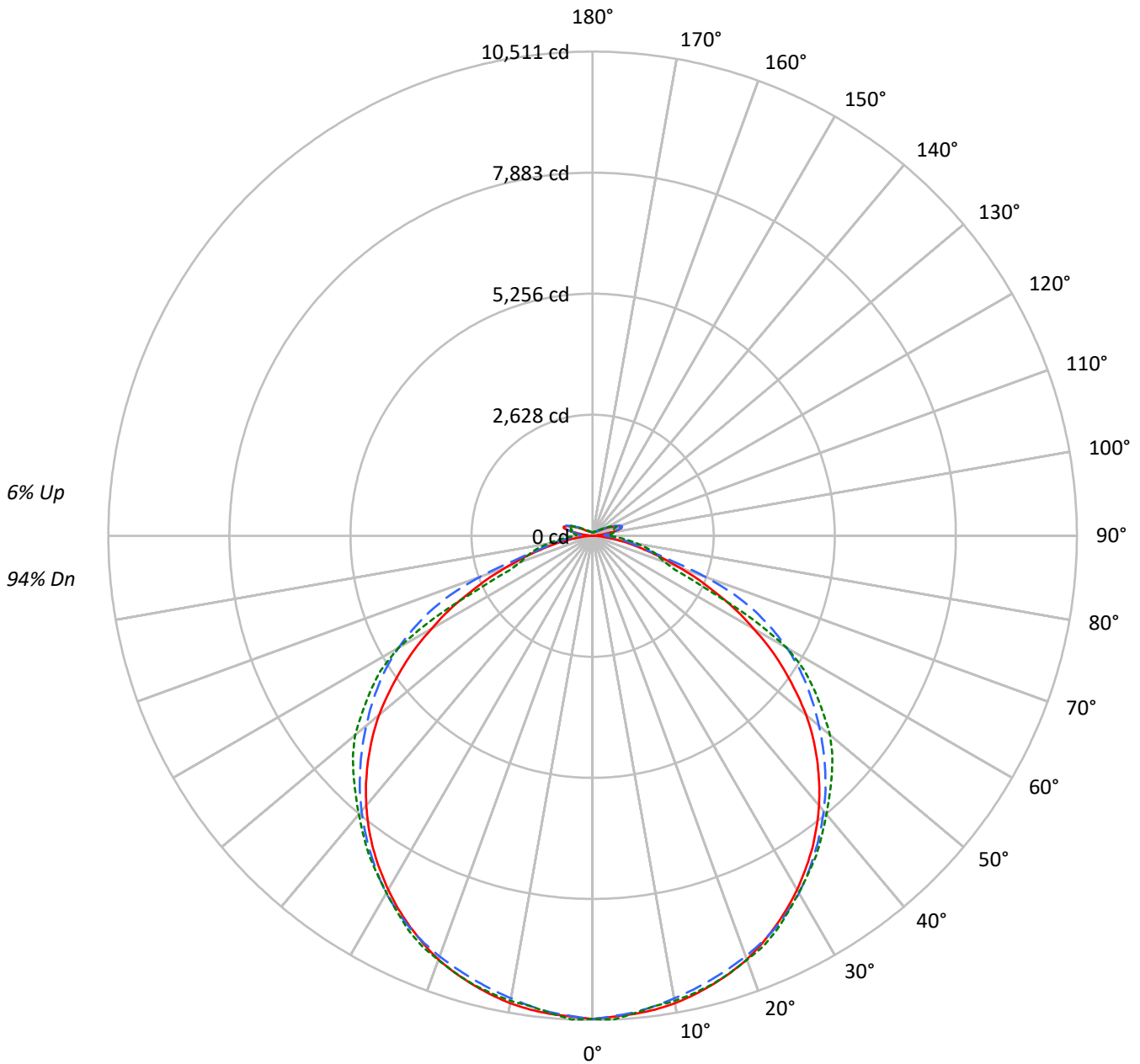
Lumens per Lamp: N/A
Luminaire Lumens: 31205.9 lumens
Efficiency: N/A
Efficacy: 139.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')
CIE Type: Direct

Input Watts (W): 223.3
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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	96	96	96	96	96	96	94
1	108	103	99	95	104	100	97	93	95	92	89	90	88	85	85	84	82	82	82	82	79
2	98	90	84	78	95	88	82	77	83	78	74	79	75	71	75	72	69	69	69	69	66
3	90	79	71	65	87	77	70	64	73	67	62	70	65	60	67	62	59	59	59	59	56
4	82	70	62	55	79	69	61	54	65	58	53	62	56	52	59	55	50	50	50	50	48
5	75	63	54	47	73	61	53	47	59	51	46	56	50	45	54	48	44	44	44	44	42
6	70	56	48	41	67	55	47	41	53	46	40	51	44	39	48	43	38	38	38	38	36
7	64	51	43	36	62	50	42	36	48	41	35	46	40	35	44	38	34	34	34	34	32
8	60	47	38	32	58	46	38	32	44	37	32	42	36	31	41	35	31	31	31	31	29
9	56	43	35	29	54	42	34	29	40	33	28	39	32	28	37	32	28	28	28	28	26
10	52	39	32	26	51	39	31	26	37	30	26	36	30	25	35	29	25	25	25	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16590	16590	16590
5°	16412	16349	16453
10°	16283	16101	16339
15°	16110	15916	16300
20°	15936	15799	16228
25°	15670	15682	16160
30°	15384	15497	15934
35°	15054	15203	15851
40°	14644	14899	15714
45°	14105	14548	15719
50°	13403	14148	15721
55°	12348	13755	15281
60°	11002	13179	14298
65°	9291	12111	9205
70°	7324	9454	6819
75°	5317	5612	7147
80°	3505	4667	7205
85°	1778	4276	7576



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	989.1	3.2
10°-20°	2836.3	9.1
20°-30°	4332.0	13.9
30°-40°	5256.2	16.8
40°-50°	5509.0	17.7
50°-60°	4992.0	16.0
60°-70°	3346.9	10.7
70°-80°	1502.9	4.8
80°-90°	549.3	1.8
90°-100°	313.0	1.0
100°-110°	594.4	1.9
110°-120°	483.0	1.5
120°-130°	234.7	0.8
130°-140°	121.3	0.4
140°-150°	71.8	0.2
150°-160°	43.5	0.1
160°-170°	23.5	0.1
170°-180°	7.2	0.0
0°-30°	8157.4	26.1
0°-40°	13413.6	43.0
0°-60°	23914.5	76.6
0°-90°	29313.6	93.9
90°-120°	1390.4	4.5
90°-150°	1818.2	5.8
90°-180°	1892.0	6.1
0°-180°	31205.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10490	10490	10490	10490	10490	
5°	10422	10458	10385	10417	10404	991
15°	10084	10044	9973	10061	10073	2847
25°	9368	9327	9392	9478	9451	4318
35°	8303	8323	8408	8497	8464	5190
45°	6891	7003	7133	7316	7338	5308
55°	5071	5315	5677	5905	5891	4526
65°	2976	3442	3907	3298	2692	2965
75°	1171	1699	1250	1279	1362	1280
85°	202	387	496	599	628	246
90°	5	151	286	361	380	15
95°	34	152	288	359	386	106
105°	650	673	631	488	463	618
115°	458	469	494	501	503	461
125°	228	240	261	265	265	215
135°	142	146	152	162	164	113
145°	108	111	113	116	117	69
155°	90	93	94	95	93	42
165°	81	82	82	83	83	23
175°	75	75	74	73	73	7
180°	73	73	73	73	73	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10490.1	10490.1	10490.1	10490.1	10490.1
2.5°	10447.7	10491.7	10437.1	10496.2	10511.3
5°	10421.9	10458.3	10385.4	10417.3	10403.7
7.5°	10374.8	10387.0	10300.5	10326.3	10299.0
10°	10305.1	10299.0	10197.4	10247.4	10253.5
12.5°	10202.0	10183.7	10092.7	10168.6	10170.1
15°	10083.6	10044.2	9972.9	10060.9	10073.0
17.5°	9947.1	9895.6	9848.5	9962.3	9944.1
20°	9787.9	9727.2	9718.0	9842.5	9797.0
22.5°	9590.7	9543.6	9564.8	9683.2	9654.4
25°	9367.7	9326.7	9392.0	9478.4	9451.1
27.5°	9132.6	9108.3	9182.6	9249.4	9196.3
30°	8874.8	8861.1	8959.7	9014.3	8947.5
32.5°	8594.1	8598.7	8692.7	8767.0	8704.9
35°	8302.9	8322.7	8407.5	8497.1	8463.7
37.5°	7982.9	8026.9	8111.8	8213.4	8178.5
40°	7644.6	7708.3	7802.4	7925.2	7893.3
42.5°	7279.1	7359.5	7480.8	7617.3	7614.2
45°	6890.8	7003.0	7133.4	7315.5	7338.2
47.5°	6487.3	6613.2	6778.5	7021.2	7056.2
50°	6049.0	6206.7	6413.0	6704.2	6725.4
52.5°	5560.5	5776.0	6049.0	6328.1	6302.3
55°	5070.6	5314.8	5677.4	5904.8	5891.2
57.5°	4582.2	4856.8	5296.7	5458.9	5457.4
60°	4036.2	4383.6	4864.4	4987.2	4865.8
62.5°	3531.1	3904.2	4403.2	4313.7	3898.2
65°	2975.9	3441.6	3907.3	3297.5	2692.3
67.5°	2483.0	2968.4	3318.8	2258.5	1933.9
70°	1987.0	2522.4	2587.6	1676.0	1653.3
72.5°	1547.1	2117.4	1785.2	1434.8	1507.7
75°	1171.0	1698.8	1249.8	1278.7	1362.1
77.5°	854.0	1304.4	972.3	1120.9	1189.1
80°	587.0	923.7	793.3	942.0	988.9
82.5°	368.6	609.7	635.6	758.4	806.9
85°	201.7	386.8	496.0	599.1	627.9
87.5°	83.5	233.6	379.2	462.6	486.9
90°	5.0	150.7	285.9	360.6	380.2
92.5°	12.8	127.3	257.1	325.4	343.0
95°	34.5	151.7	288.1	359.1	386.0
97.5°	172.6	248.9	354.0	422.6	442.6
100°	354.0	420.0	430.6	471.2	481.0
102.5°	553.0	588.4	497.8	480.9	480.2
105°	650.3	673.0	630.7	488.1	463.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	534.0	548.1	568.0	567.7	549.1
115°	458.2	469.4	494.4	501.2	503.4
117.5°	392.1	397.7	422.2	429.6	433.5
120°	329.5	337.1	360.3	365.3	365.0
122.5°	277.4	285.2	306.1	311.2	310.9
125°	228.0	240.0	261.2	264.8	264.7
127.5°	196.5	204.3	224.2	227.9	227.7
130°	172.2	179.7	192.5	199.5	200.3
132.5°	157.1	161.2	171.0	178.0	179.7
135°	142.3	146.4	152.3	161.6	164.1
137.5°	132.5	135.1	138.6	148.0	150.3
140°	122.9	125.5	126.7	134.5	136.9
142.5°	113.6	117.7	118.9	124.2	126.7
145°	107.6	110.8	113.4	115.8	117.3
147.5°	102.9	104.7	106.4	108.2	109.7
150°	97.7	99.5	101.2	102.1	102.9
152.5°	94.2	95.1	96.9	97.7	97.7
155°	89.9	93.2	94.1	94.9	93.4
157.5°	87.3	89.7	90.6	91.5	91.5
160°	84.7	86.2	87.1	88.0	88.0
162.5°	83.6	83.6	84.5	85.4	85.4
165°	81.0	81.9	81.9	82.8	82.8
167.5°	79.3	80.8	80.2	80.2	81.0
170°	77.6	77.6	78.4	76.9	76.9
172.5°	75.8	76.7	76.7	75.1	75.1
175°	74.9	74.9	74.3	72.8	72.8
177.5°	75.6	74.9	73.4	71.9	70.4
180°	73.4	73.4	73.4	73.4	73.4



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	657.9	679.1	674.3	555.5	482.9
110°	604.7	626.8	638.6	600.1	543.1



(END OF REPORT)