

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: P828090

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P828090
REPORT IS A COMBINATION OF REPORTS P826312 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-36HE-MCL-UNV-L935-CD-UPL36
Description:
Light Source: -
Ballast/Driver: -

Summary

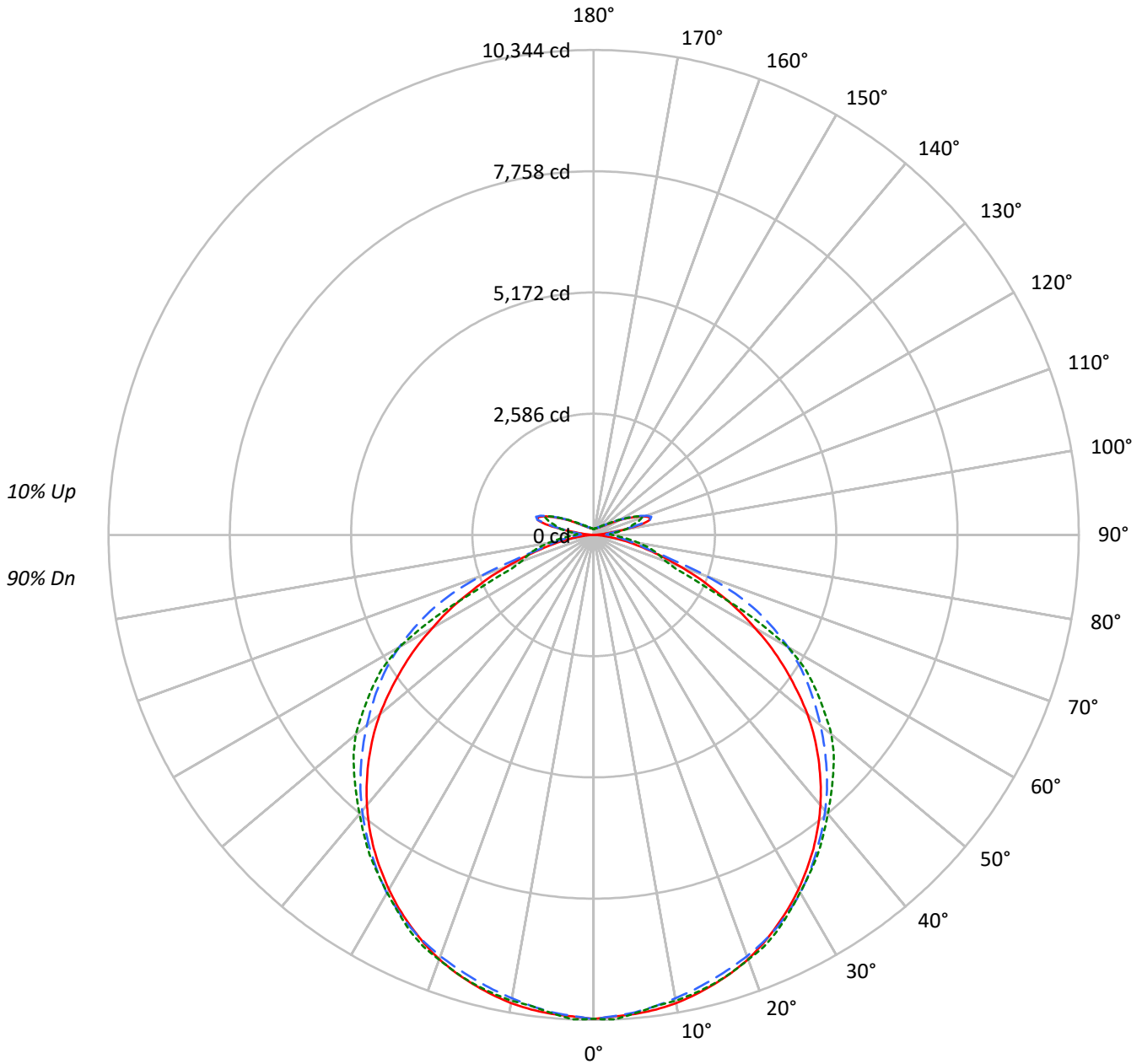
Lumens per Lamp: N/A
Luminaire Lumens: 32161.8 lumens
Efficiency: N/A
Efficacy: 133.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 240.8
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									
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	117	117	117	117	113	113	113	113	105	105	105	99	99	99	93	93	93	90																			
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	77	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	62	49	41	36	47	40	35	45	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	33	28	38	31	27	36	30	26	24																			
10	52	39	31	26	50	38	31	26	36	30	25	35	29	25	33	28	24	22																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16325	16325	16325
5°	16150	16088	16190
10°	16023	15844	16078
15°	15853	15662	16040
20°	15681	15547	15969
25°	15420	15432	15902
30°	15138	15250	15680
35°	14813	14960	15598
40°	14411	14661	15464
45°	13880	14316	15469
50°	13189	13923	15470
55°	12151	13536	15037
60°	10826	12969	14070
65°	9143	11918	9058
70°	7207	9303	6710
75°	5232	5523	7033
80°	3450	4592	7090
85°	1750	4208	7455



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	973.3	3.0
10°-20°	2791.1	8.7
20°-30°	4262.8	13.3
30°-40°	5172.3	16.1
40°-50°	5421.1	16.9
50°-60°	4912.3	15.3
60°-70°	3293.5	10.2
70°-80°	1478.9	4.6
80°-90°	543.1	1.7
90°-100°	390.8	1.2
100°-110°	1114.6	3.5
110°-120°	897.6	2.8
120°-130°	427.8	1.3
130°-140°	220.4	0.7
140°-150°	130.1	0.4
150°-160°	77.8	0.2
160°-170°	41.4	0.1
170°-180°	12.7	0.0
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0°-30°	8027.3	25.0
0°-40°	13199.6	41.0
0°-60°	23532.9	73.2
0°-90°	28848.5	89.7
90°-120°	2403.1	7.5
90°-150°	3181.4	9.9
90°-180°	3313.0	10.3
0°-180°	32161.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10323	10323	10323	10323	10323	
5°	10256	10291	10220	10251	10238	975
15°	9923	9884	9814	9900	9912	2802
25°	9218	9178	9242	9327	9300	4249
35°	8170	8190	8273	8362	8329	5107
45°	6781	6891	7020	7199	7221	5224
55°	4990	5230	5587	5811	5797	4454
65°	2928	3387	3845	3245	2649	2918
75°	1152	1672	1230	1258	1340	1259
85°	198	381	488	590	618	242
90°	8	168	305	376	392	17
95°	53	182	311	385	405	194
105°	1237	1263	1240	962	883	1177
115°	870	865	897	914	909	879
125°	433	449	474	471	464	408
135°	263	271	279	289	291	208
145°	195	201	205	209	211	125
155°	162	166	168	170	168	76
165°	142	144	145	146	146	41
175°	131	131	131	129	130	13
180°	128	128	128	128	128	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10322.8	10322.8	10322.8	10322.8	10322.8
2.5°	10280.9	10324.2	10270.5	10328.7	10343.7
5°	10255.6	10291.4	10219.8	10251.1	10237.7
7.5°	10209.3	10221.2	10136.2	10161.5	10134.7
10°	10140.7	10134.7	10034.7	10083.9	10089.9
12.5°	10039.2	10021.2	9931.7	10006.3	10007.8
15°	9922.8	9883.9	9813.8	9900.3	9912.3
17.5°	9788.4	9737.7	9691.3	9803.3	9785.4
20°	9631.7	9571.9	9563.0	9685.4	9640.6
22.5°	9437.7	9391.3	9412.3	9528.7	9500.3
25°	9218.2	9177.9	9242.1	9327.2	9300.3
27.5°	8986.8	8963.0	9036.1	9101.8	9049.6
30°	8733.1	8719.7	8816.8	8870.4	8804.8
32.5°	8457.0	8461.5	8554.0	8627.2	8565.9
35°	8170.4	8189.8	8273.4	8361.5	8328.7
37.5°	7855.5	7898.8	7982.3	8082.3	8048.0
40°	7522.7	7585.3	7677.8	7798.8	7767.4
42.5°	7162.9	7242.0	7361.4	7495.8	7492.8
45°	6780.8	6891.2	7019.7	7198.8	7221.2
47.5°	6383.8	6507.7	6670.3	6909.2	6943.5
50°	5952.4	6107.7	6310.7	6597.2	6618.2
52.5°	5471.8	5683.8	5952.4	6227.1	6201.7
55°	4989.8	5230.0	5586.8	5810.7	5797.2
57.5°	4509.1	4779.3	5212.1	5371.8	5370.3
60°	3971.8	4313.6	4786.8	4907.6	4788.2
62.5°	3474.8	3841.9	4333.0	4244.9	3835.9
65°	2928.4	3386.7	3844.9	3244.9	2649.3
67.5°	2443.3	2921.0	3265.8	2222.5	1903.1
70°	1955.3	2482.2	2546.3	1649.3	1626.9
72.5°	1522.4	2083.7	1756.8	1412.0	1483.7
75°	1152.2	1671.7	1229.9	1258.3	1340.3
77.5°	840.3	1283.6	956.8	1103.0	1170.2
80°	577.7	909.0	780.6	926.9	973.2
82.5°	362.7	600.0	625.4	746.3	794.1
85°	198.5	380.6	488.1	589.6	617.9
87.5°	82.1	229.8	373.2	455.2	479.1
90°	8.2	167.7	304.8	376.4	392.2
92.5°	22.3	147.0	270.2	335.2	350.7
95°	53.2	182.4	310.7	385.4	404.8
97.5°	314.7	397.7	435.6	522.2	548.1
100°	673.7	738.9	653.4	682.9	704.1
102.5°	1054.3	1104.3	941.5	817.4	796.8
105°	1236.8	1262.7	1240.1	962.2	883.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1018.8	1031.8	1052.4	1062.5	1038.8
115°	870.2	864.6	896.6	914.4	909.1
117.5°	746.1	740.8	769.8	775.4	769.2
120°	629.4	630.9	658.7	654.5	649.3
122.5°	523.6	535.2	557.5	556.7	547.3
125°	432.9	449.4	474.3	471.3	464.5
127.5°	374.4	379.4	403.1	403.3	404.8
130°	323.6	331.8	348.4	356.0	354.3
132.5°	290.1	298.2	311.1	319.5	322.0
135°	263.4	270.8	278.9	288.9	291.2
137.5°	243.2	248.2	253.2	264.9	267.2
140°	224.9	229.9	233.4	242.8	244.3
142.5°	208.4	214.9	217.6	224.6	226.1
145°	195.1	200.8	204.9	208.9	211.2
147.5°	186.6	189.9	194.1	194.9	197.2
150°	177.4	179.9	183.2	184.9	185.8
152.5°	169.1	171.6	174.9	175.8	176.6
155°	161.6	165.6	168.1	169.8	168.2
157.5°	154.9	158.9	161.4	162.2	162.2
160°	149.9	153.1	155.6	155.6	156.4
162.5°	146.4	148.1	149.8	150.6	151.4
165°	142.2	143.9	144.8	145.6	146.4
167.5°	138.9	141.2	140.6	141.4	141.4
170°	135.6	136.4	137.2	135.8	136.6
172.5°	133.1	133.9	134.8	133.2	133.2
175°	131.4	131.4	130.8	129.2	130.1
177.5°	131.2	130.6	129.1	127.6	126.9
180°	128.2	128.2	128.2	128.2	128.2



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	1250.0	1273.3	1288.2	1158.1	<i>1016.1</i>
110°	1155.6	1181.4	1199.5	1165.5	<i>1102.6</i>



(END OF REPORT)