

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: P826603

Luminaire Tested: **OHBL-36SE-MFL-UNV-L830-CD-UPL18**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P826603
REPORT IS A COMBINATION OF REPORTS P826175 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-MFL-UNV-L830-CD-UPL18
Description:
Light Source: -
Ballast/Driver: -

Summary

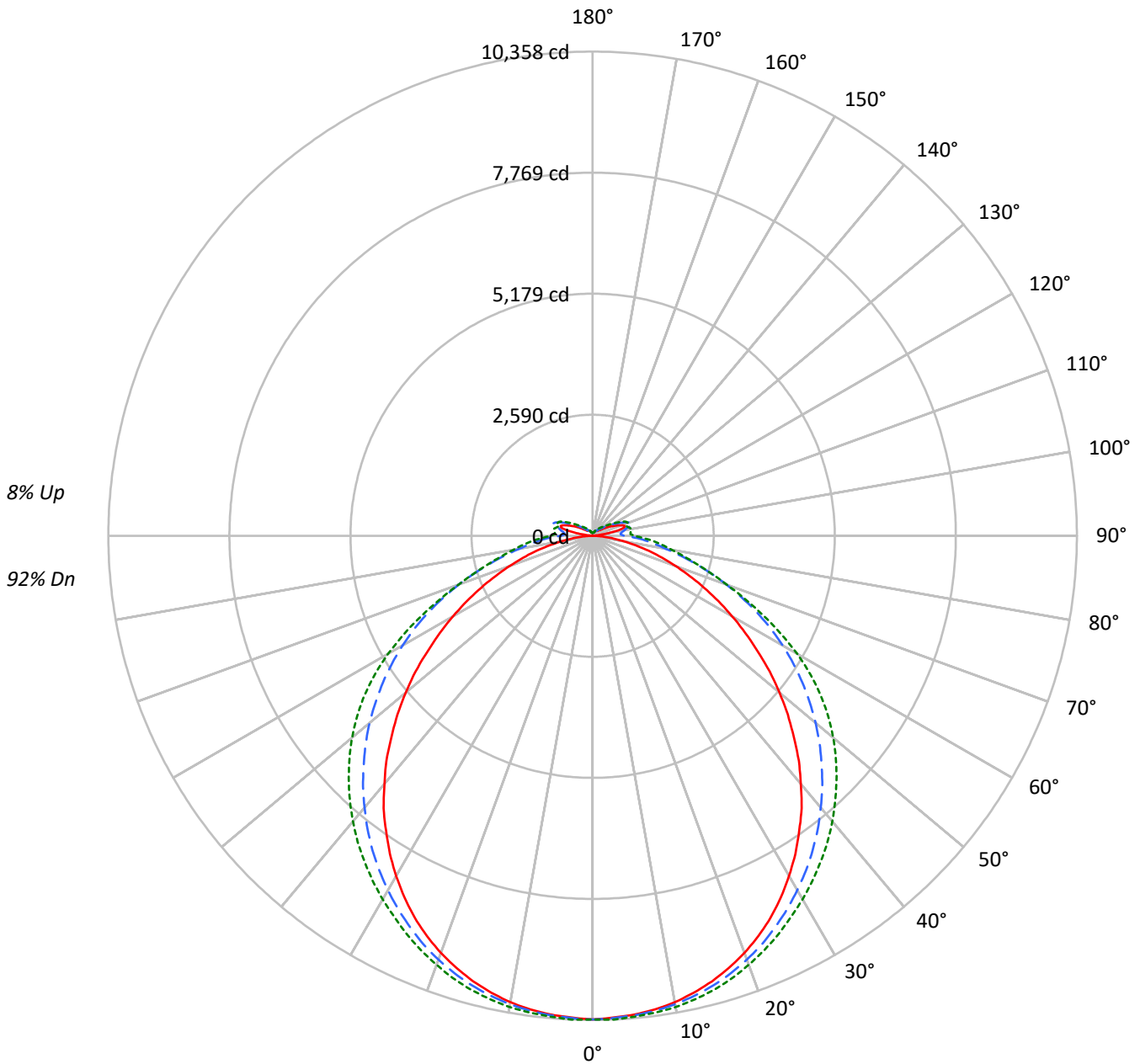
Lumens per Lamp: N/A
Luminaire Lumens: 32636.4 lumens
Efficiency: N/A
Efficacy: 146.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')
CIE Type: Direct

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									
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	107	107	107	100	100	100	95	95	95	92																			
1	106	101	97	93	103	98	94	91	92	89	86	87	85	82	82	80	78	76																			
2	97	88	81	75	93	86	79	74	81	75	71	76	72	68	72	68	65	63																			
3	88	77	69	63	85	75	68	61	71	65	59	67	62	57	64	59	55	53																			
4	80	68	60	53	78	67	58	52	63	56	50	60	54	49	57	52	47	45																			
5	74	61	52	45	71	59	51	45	56	49	44	54	47	42	51	46	41	39																			
6	68	55	46	40	66	54	45	39	51	44	38	48	42	37	46	41	36	34																			
7	63	50	41	35	61	49	40	34	46	39	34	44	38	33	42	36	32	30																			
8	59	45	37	31	57	44	36	31	42	35	30	40	34	29	39	33	29	27																			
9	55	42	33	28	53	41	33	28	39	32	27	37	31	26	36	30	26	24																			
10	51	38	30	25	50	38	30	25	36	29	25	35	28	24	33	28	24	22																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16366	16366	16366
5°	16192	16211	16329
10°	16011	16068	16312
15°	15764	15897	16270
20°	15458	15688	16176
25°	15073	15426	16083
30°	14567	15143	15993
35°	13968	14842	15932
40°	13264	14494	15882
45°	12447	14116	15803
50°	11560	13734	15700
55°	10491	13266	15458
60°	9395	12715	14847
65°	8208	12011	13750
70°	6927	11113	12576
75°	5624	10076	11960
80°	4038	9326	12529
85°	2277	9694	15707



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	980.6	3.0
10°-20°	2813.1	8.6
20°-30°	4254.3	13.0
30°-40°	5107.3	15.6
40°-50°	5275.0	16.2
50°-60°	4745.9	14.5
60°-70°	3575.0	11.0
70°-80°	2158.7	6.6
80°-90°	1060.0	3.2
90°-100°	603.7	1.8
100°-110°	807.0	2.5
110°-120°	624.3	1.9
120°-130°	312.5	1.0
130°-140°	158.4	0.5
140°-150°	87.8	0.3
150°-160°	46.7	0.1
160°-170°	20.0	0.1
170°-180°	6.1	0.0
0°-30°	8047.9	24.7
0°-40°	13155.2	40.3
0°-60°	23176.2	71.0
0°-90°	29969.8	91.8
90°-120°	2035.1	6.2
90°-150°	2593.8	7.9
90°-180°	2667.0	8.2
0°-180°	32636.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10348	10348	10348	10348	10348	
5°	10282	10310	10298	10338	10326	977
15°	9867	9915	9961	10044	10055	2782
25°	9011	9110	9239	9383	9406	4145
35°	7704	7884	8208	8456	8507	4816
45°	6081	6387	6922	7299	7378	4695
55°	4308	4754	5476	5888	5959	3862
65°	2629	3166	3875	4067	4022	2612
75°	1238	1778	2244	2302	2279	1321
85°	258	681	1124	1279	1302	298
90°	4	289	675	852	890	19
95°	48	256	601	768	813	122
105°	707	787	861	775	759	672
115°	498	541	654	707	716	502
125°	253	272	354	399	404	237
135°	156	163	198	238	249	123
145°	126	125	130	152	159	79
155°	105	110	108	106	109	45
165°	69	70	70	71	71	20
175°	62	62	63	63	63	6
180°	62	62	62	62	62	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10348.3	10348.3	10348.3	<i>10348.3</i>	10348.3
2.5°	<i>10317.9</i>	<i>10343.2</i>	<i>10328.0</i>	<i>10361.0</i>	<i>10358.5</i>
5°	10282.5	10310.4	10297.6	<i>10338.2</i>	10325.5
7.5°	10221.7	10252.1	10249.5	<i>10295.1</i>	10290.1
10°	10133.0	10165.9	10176.1	<i>10236.9</i>	10236.9
12.5°	10011.5	10054.6	10079.9	<i>10153.3</i>	10155.8
15°	9867.1	9915.3	9960.9	<i>10044.4</i>	10054.6
17.5°	9692.4	9753.2	9816.4	<i>9912.7</i>	9925.4
20°	9494.8	9563.2	9649.3	<i>9750.6</i>	9765.8
22.5°	9266.8	9347.9	9459.4	<i>9578.4</i>	9596.2
25°	9011.1	9109.9	9239.0	<i>9383.4</i>	9406.1
27.5°	8719.9	8833.8	9008.5	<i>9170.6</i>	9190.9
30°	8403.3	8537.5	8755.3	<i>8947.8</i>	8980.7
32.5°	8068.9	8223.4	8491.9	<i>8707.2</i>	8752.7
35°	7704.3	7884.0	8208.2	<i>8456.4</i>	8507.1
37.5°	7344.6	7542.2	7909.4	<i>8193.1</i>	8253.8
40°	6924.2	7169.8	7590.3	<i>7904.3</i>	7977.7
42.5°	6529.2	6795.0	7271.2	<i>7613.1</i>	7684.0
45°	6080.8	6387.2	6921.7	<i>7299.0</i>	7377.5
47.5°	5660.4	5992.2	6584.8	<i>6974.9</i>	7055.9
50°	5217.3	5581.9	6225.2	<i>6632.9</i>	6716.6
52.5°	4774.0	5166.5	5852.9	<i>6275.9</i>	6354.4
55°	4308.0	4753.7	5475.6	<i>5888.4</i>	5959.3
57.5°	3874.9	4346.0	5088.1	<i>5480.6</i>	5523.7
60°	3446.9	3935.7	4693.0	<i>5037.4</i>	5052.5
62.5°	3029.1	3543.2	4287.7	<i>4561.3</i>	4541.0
65°	2628.9	3165.8	3874.9	<i>4067.4</i>	4021.8
67.5°	2243.9	2798.6	3452.0	<i>3576.0</i>	3515.3
70°	1879.2	2441.5	3041.7	<i>3105.0</i>	3049.2
72.5°	1557.6	2102.1	2626.3	<i>2679.5</i>	2639.0
75°	1238.5	1777.9	2243.9	<i>2302.2</i>	2279.4
77.5°	939.6	1463.9	1891.9	<i>1967.8</i>	1972.9
80°	676.2	1177.7	1585.4	<i>1704.5</i>	1719.7
82.5°	445.7	914.3	1329.7	<i>1481.6</i>	1504.3
85°	258.3	681.3	1124.5	<i>1279.0</i>	1301.8
87.5°	111.5	491.3	904.1	<i>1043.4</i>	1071.3
90°	3.7	289.2	674.9	<i>852.3</i>	889.9
92.5°	19.7	251.1	603.3	<i>774.8</i>	810.1
95°	48.0	256.1	601.2	<i>768.3</i>	813.4
97.5°	196.6	350.2	639.4	<i>796.8</i>	834.5
100°	389.3	524.4	691.6	<i>813.8</i>	839.6
102.5°	600.5	700.9	739.0	<i>791.8</i>	804.0
105°	707.3	786.9	861.1	<i>775.1</i>	758.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	580.5	632.3	745.2	796.2	783.1
115°	497.7	541.2	654.3	706.9	716.2
117.5°	429.5	460.1	563.3	617.1	625.6
120°	362.5	389.3	484.1	532.0	540.3
122.5°	306.6	327.6	415.9	461.2	467.0
125°	252.9	271.6	354.2	398.8	404.5
127.5°	215.1	228.5	302.7	347.3	353.1
130°	189.0	198.0	259.3	303.3	311.8
132.5°	171.3	179.1	225.2	266.7	278.7
135°	155.5	163.3	198.4	238.2	249.3
137.5°	143.4	151.2	175.2	212.5	223.6
140°	135.7	141.0	156.4	188.7	199.7
142.5°	129.8	132.6	140.4	169.3	177.7
145°	125.8	125.2	130.5	151.7	159.3
147.5°	119.3	121.2	123.0	135.0	142.7
150°	113.7	118.1	117.4	120.9	129.4
152.5°	110.0	113.4	112.8	111.2	116.2
155°	105.3	109.7	108.1	106.5	109.1
157.5°	77.2	78.2	79.1	80.0	80.0
160°	74.4	74.4	75.4	76.3	76.3
162.5°	71.7	71.7	72.6	73.5	73.5
165°	68.9	69.8	69.8	70.7	70.7
167.5°	67.0	67.0	67.9	67.9	68.9
170°	65.1	65.1	66.1	66.1	66.1
172.5°	63.3	64.2	64.2	64.2	64.2
175°	62.3	62.3	63.3	63.3	63.3
177.5°	61.4	62.3	62.3	62.3	62.3
180°	62.3	62.3	62.3	62.3	62.3



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	713.8	787.2	887.8	823.0	754.7
110°	655.2	725.9	834.8	849.9	798.3



(END OF REPORT)