

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: P827199

Luminaire Tested: **OHBL-36SE-A-UNV-L840-CD-UPL18**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P827199
REPORT IS A COMBINATION OF REPORTS P826173 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-A-UNV-L840-CD-UPL18
Description: 36000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND AISLE LENS AND 1800 LUMEN UPLIGHT MODULE
Light Source: -
Ballast/Driver: -

Summary

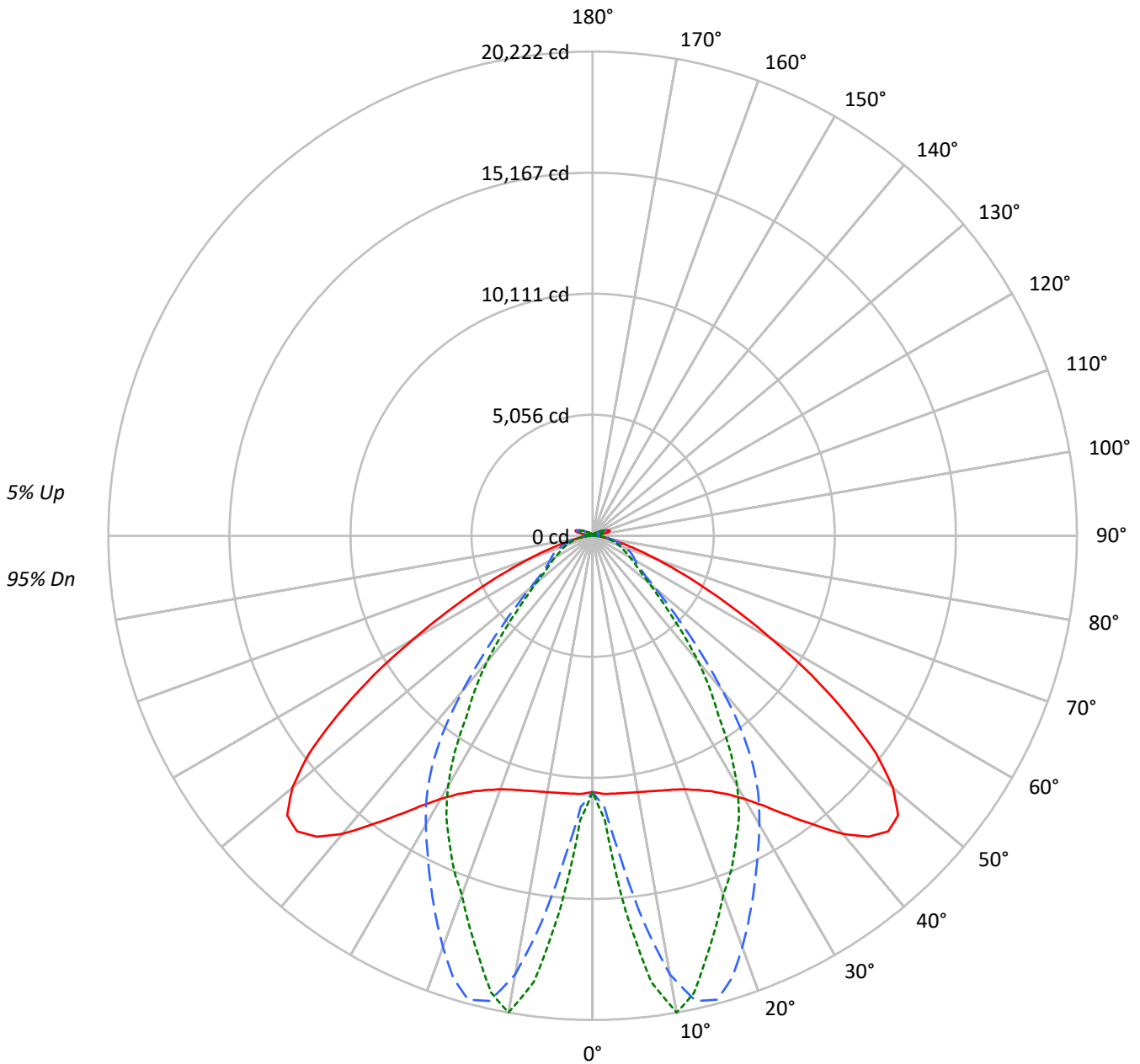
Lumens per Lamp: N/A
Luminaire Lumens: 36128.9 lumens
Efficiency: N/A
Efficacy: 161.8 lumens/watt
Spacing Criteria (0/90/45): 2.18 / 1.37 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')
CIE Type: Direct

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	118	118	118	118	115	115	115	115	108	108	108	103	103	103	98	98	98	95																			
1	109	105	102	99	106	103	99	97	98	95	93	93	91	89	89	87	86	83																			
2	101	94	88	84	98	92	87	82	88	83	80	84	80	77	80	77	75	73																			
3	94	85	78	72	91	83	76	71	79	74	69	76	71	67	73	69	66	64																			
4	87	76	69	63	84	75	68	62	72	66	61	69	64	60	66	62	58	56																			
5	80	69	61	55	78	68	60	55	65	59	54	63	57	53	61	56	52	50																			
6	75	63	55	49	73	62	54	49	60	53	48	58	52	47	56	51	47	45																			
7	70	58	50	44	68	57	49	44	55	48	43	53	47	43	51	46	42	40																			
8	65	53	45	40	64	52	45	40	51	44	39	49	43	39	48	42	38	37																			
9	61	49	42	37	60	48	41	36	47	40	36	45	40	35	44	39	35	33																			
10	58	46	38	33	56	45	38	33	44	37	33	42	37	33	41	36	32	31																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16923	16923	16923
5°	17020	21295	24808
10°	17183	29372	32223
15°	17604	32011	29575
20°	18344	29716	26431
25°	19696	26738	24176
30°	21979	24088	21498
35°	25859	21095	17131
40°	31121	16075	13634
45°	35734	10960	9704
50°	36269	7524	7177
55°	31438	5927	5863
60°	23523	5552	5275
65°	16159	5578	4997
70°	10362	5392	4839
75°	6257	5005	4630
80°	3707	4419	4777
85°	1808	3829	4429



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1397.0	3.9
10°-20°	4930.7	13.6
20°-30°	7265.8	20.1
30°-40°	7635.2	21.1
40°-50°	5842.3	16.2
50°-60°	3527.8	9.8
60°-70°	2152.8	6.0
70°-80°	1175.0	3.3
80°-90°	416.9	1.2
90°-100°	171.2	0.5
100°-110°	594.6	1.6
110°-120°	510.9	1.4
120°-130°	245.3	0.7
130°-140°	122.6	0.3
140°-150°	71.2	0.2
150°-160°	41.5	0.1
160°-170°	21.5	0.1
170°-180°	6.6	0.0
0°-30°	13593.5	37.6
0°-40°	21228.7	58.8
0°-60°	30598.8	84.7
0°-90°	34343.5	95.1
90°-120°	1276.7	3.5
90°-150°	1715.8	4.7
90°-180°	1785.0	4.9
0°-180°	36128.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10701	10701	10701	10701	10701	
5°	10808	11596	13527	15104	15687	###
15°	11019	17162	20058	18717	18277	3133
25°	11775	19918	16013	14498	14140	5503
35°	14263	15951	11666	9715	9147	9048
45°	17457	9102	5374	4729	4530	13190
55°	12910	3086	2446	2267	2260	11408
65°	5176	1954	1800	1540	1462	5303
75°	1378	1215	1115	920	882	1586
85°	205	377	444	405	367	253
90°	4	25	34	45	50	14
95°	38	82	129	167	191	120
105°	741	734	626	441	407	703
115°	513	519	518	512	511	517
125°	250	262	269	268	266	235
135°	148	151	156	158	159	117
145°	108	110	113	114	114	68
155°	86	88	89	90	90	40
165°	74	75	75	76	76	21
175°	67	67	68	68	68	6
180°	67	67	67	67	67	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10701.0	10701.0	10701.0	10701.0	<i>10701.0</i>
2.5°	10788.6	10898.7	11332.8	11783.5	<i>11893.1</i>
5°	10808.3	11595.8	13527.2	15104.3	<i>15687.1</i>
7.5°	10831.3	12725.1	16246.0	18177.0	<i>18795.1</i>
10°	<i>10874.9</i>	<i>14153.1</i>	<i>18601.9</i>	<i>19988.1</i>	<i>20221.7</i>
12.5°	10929.0	15666.0	19898.2	19847.7	<i>19553.1</i>
15°	11019.0	17162.4	20057.9	18717.1	<i>18277.0</i>
17.5°	11113.5	18428.4	19361.3	17486.4	<i>17103.2</i>
20°	11267.2	19368.2	18277.9	16392.4	<i>15956.9</i>
22.5°	11488.9	19884.9	17141.7	15403.1	<i>15119.0</i>
25°	11774.7	19918.4	16013.4	14497.7	<i>14139.8</i>
27.5°	12157.9	19456.3	14931.8	13610.7	<i>13232.6</i>
30°	12679.2	18571.6	13926.9	12541.1	<i>12072.1</i>
32.5°	13387.2	17298.2	12890.7	11249.8	<i>10723.9</i>
35°	14262.8	15951.0	11666.0	9715.3	<i>9147.2</i>
37.5°	15218.1	14455.0	10179.7	8356.6	<i>8025.7</i>
40°	16246.0	12913.7	8418.1	7085.0	<i>6848.3</i>
42.5°	17048.1	11237.8	6781.7	5887.8	<i>5635.9</i>
45°	17457.0	9101.8	5373.9	4728.7	<i>4530.0</i>
47.5°	17297.8	7065.3	4260.2	3757.3	<i>3697.6</i>
50°	16368.5	5217.0	3410.4	3095.1	<i>3070.3</i>
52.5°	14915.7	3888.5	2817.0	2622.0	<i>2579.3</i>
55°	12910.0	3086.4	2446.3	2267.3	<i>2260.4</i>
57.5°	10839.1	2622.0	2220.5	2081.9	<i>2033.7</i>
60°	8630.1	2338.0	2049.3	1892.9	<i>1795.1</i>
62.5°	6764.7	2139.3	1923.6	1711.1	<i>1619.8</i>
65°	5175.7	1953.9	1799.7	1540.0	<i>1461.5</i>
67.5°	3858.2	1777.2	1648.3	1360.1	<i>1314.2</i>
70°	2811.1	1596.0	1475.7	1209.6	<i>1173.3</i>
72.5°	2003.4	1415.2	1303.2	1068.3	<i>1028.3</i>
75°	1378.0	1215.1	1114.6	919.6	<i>882.4</i>
77.5°	929.7	1010.9	928.8	785.1	<i>769.5</i>
80°	620.9	801.7	751.2	665.4	<i>655.7</i>
82.5°	376.7	581.9	592.9	541.0	<i>514.9</i>
85°	205.1	376.7	444.2	404.7	<i>367.1</i>
87.5°	80.3	208.8	306.1	274.9	<i>258.8</i>
90°	4.0	25.0	34.0	45.0	<i>50.0</i>
92.5°	13.0	33.0	55.0	76.0	<i>84.0</i>
95°	38.0	82.0	129.0	167.0	<i>191.0</i>
97.5°	195.0	213.0	238.0	282.0	<i>298.0</i>
100°	402.0	422.0	354.0	371.0	<i>377.0</i>
102.5°	629.0	628.0	454.0	410.0	<i>404.0</i>
105°	741.0	734.0	626.0	441.0	<i>407.0</i>



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	602.0	606.0	594.0	578.0	553.0
115°	513.0	519.0	518.0	512.0	511.0
117.5°	437.0	440.0	442.0	440.0	441.0
120°	365.0	372.0	376.0	373.0	371.0
122.5°	305.0	314.0	319.0	316.0	314.0
125°	250.0	262.0	269.0	268.0	266.0
127.5°	212.0	221.0	230.0	229.0	227.0
130°	184.0	191.0	197.0	198.0	199.0
132.5°	165.0	168.0	174.0	175.0	177.0
135°	148.0	151.0	156.0	158.0	159.0
137.5°	135.0	138.0	142.0	144.0	145.0
140°	124.0	127.0	130.0	132.0	133.0
142.5°	115.0	118.0	121.0	122.0	123.0
145°	108.0	110.0	113.0	114.0	114.0
147.5°	101.0	103.0	105.0	107.0	107.0
150°	95.0	97.0	99.0	100.0	101.0
152.5°	91.0	92.0	94.0	95.0	95.0
155°	86.0	88.0	89.0	90.0	90.0
157.5°	83.0	84.0	85.0	86.0	86.0
160°	80.0	80.0	81.0	82.0	82.0
162.5°	77.0	77.0	78.0	79.0	79.0
165°	74.0	75.0	75.0	76.0	76.0
167.5°	72.0	72.0	73.0	73.0	74.0
170°	70.0	70.0	71.0	71.0	71.0
172.5°	68.0	69.0	69.0	69.0	69.0
175°	67.0	67.0	68.0	68.0	68.0
177.5°	66.0	67.0	67.0	67.0	67.0
180°	67.0	67.0	67.0	67.0	67.0



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	748.0	748.0	690.0	536.0	449.0
110°	685.0	693.0	663.0	603.0	534.0



(END OF REPORT)