

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: P830433

Luminaire Tested: **OHBL-36SE-NL-UNV-L840-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830433
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P472951)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-36SE-NL-UNV-L840-CD
Description: 36000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

Summary

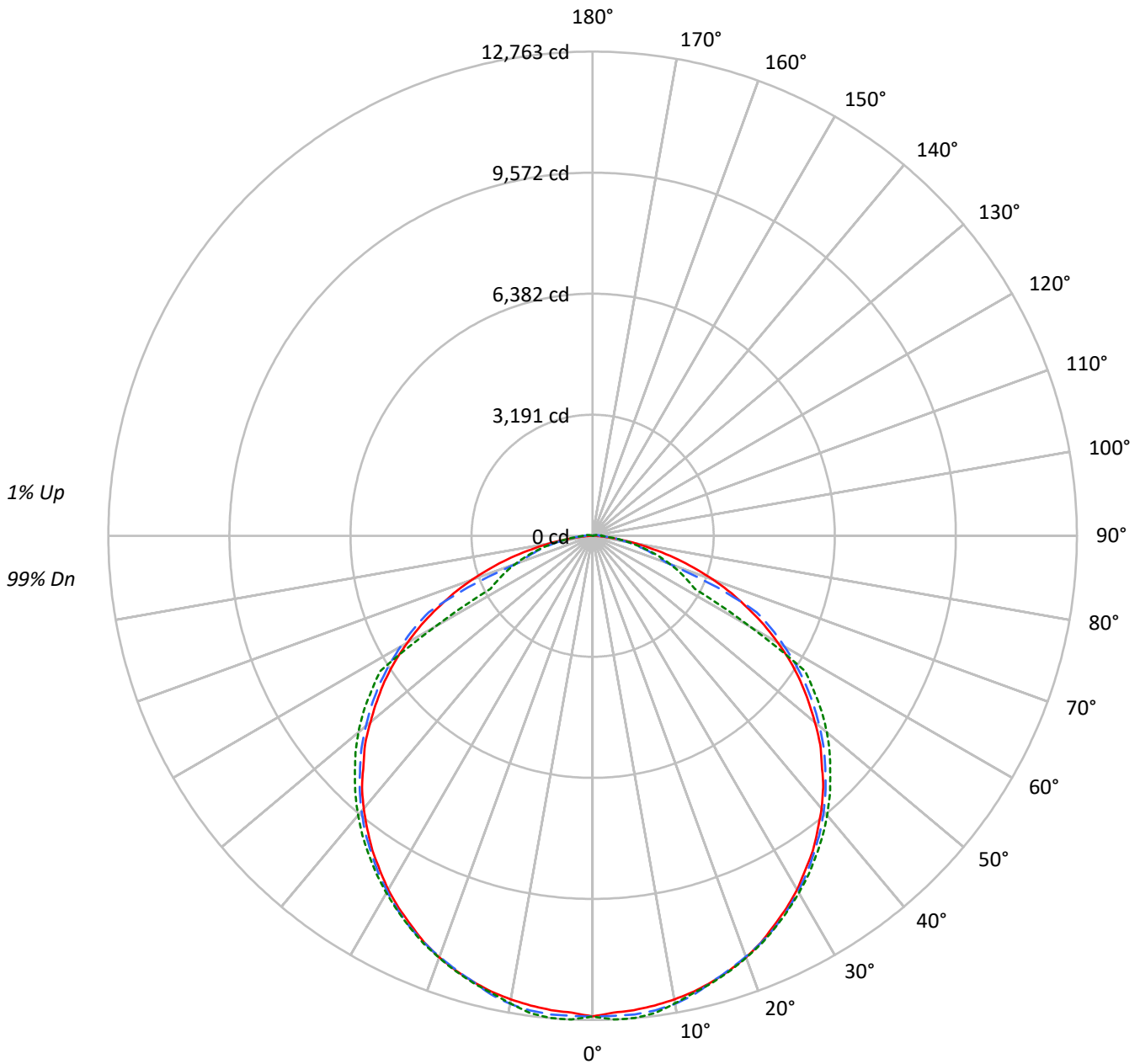
Lumens per Lamp: N/A
Luminaire Lumens: 35571.0 lumens
Efficiency: N/A
Efficacy: 168.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular (W 1.8' x L: 3.78' x H: 0')
CIE Type: Direct

Input Watts (W): 211
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102					99															
1	109	105	100	97	106	102	99	95	98	95	92	94	91	89	90	88	86					84															
2	99	92	85	79	97	90	84	78	86	81	76	83	78	75	80	76	73					71															
3	91	81	73	66	88	79	72	66	76	70	64	73	68	63	70	66	62					60															
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53					51															
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46					44															
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	45	41					39															
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36					34															
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32					30															
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29					27															
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26					25															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20036	20036	20036
5°	19926	20106	20258
10°	19931	20121	20096
15°	19928	19924	19968
20°	19901	19871	19919
25°	19765	19865	19881
30°	19673	19775	19852
35°	19546	19653	19837
40°	19377	19561	19850
45°	19097	19386	19809
50°	18810	19193	19827
55°	18450	18928	19609
60°	17832	18465	15266
65°	16871	17852	10274
70°	15604	9477	9971
75°	13611	9006	9522
80°	10467	8261	8727
85°	5282	8349	8550



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1203.6	3.4
10°-20°	3446.4	9.7
20°-30°	5243.9	14.7
30°-40°	6375.9	17.9
40°-50°	6704.0	18.8
50°-60°	6121.5	17.2
60°-70°	3924.2	11.0
70°-80°	1853.7	5.2
80°-90°	514.0	1.4
90°-100°	136.1	0.4
100°-110°	37.3	0.1
110°-120°	10.3	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	9894.0	27.8
0°-40°	16269.9	45.7
0°-60°	29095.3	81.8
0°-90°	35387.3	99.5
90°-120°	183.7	0.5
90°-150°	183.7	0.5
90°-180°	184.0	0.5
0°-180°	35571.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12670	12670	12670	12670	12670	
5°	12552	12600	12665	12734	12761	###
15°	12171	12262	12169	12187	12196	3436
25°	11327	11344	11384	11402	11393	5226
35°	10124	10064	10180	10304	10275	6327
45°	8539	8523	8668	8872	8857	6600
55°	6691	6640	6865	7094	7112	5968
65°	4508	4508	4771	2737	2746	4470
75°	2228	2270	1474	1552	1558	2348
85°	291	369	460	498	471	430
90°	0	124	204	242	238	13
95°	7	64	147	198	198	4
105°	11	24	36	36	33	11
115°	11	16	22	16	2	8
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CATALOG NUMBER: OHBL-36SE-NL-UNV-L840-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12669.5	12669.5	12669.5	12669.5	12669.5
2.5°	12580.5	12622.9	12669.5	12729.5	12762.7
5°	12551.6	12600.5	12665.0	12734.0	12760.6
7.5°	12489.4	12558.1	12620.5	12669.5	12685.0
10°	12411.5	12493.9	12529.4	12525.0	12513.9
12.5°	12307.0	12393.9	12382.8	12331.5	12340.4
15°	12171.4	12262.5	12169.3	12187.0	12195.9
17.5°	12011.4	12100.4	11991.4	12026.9	12029.3
20°	11824.7	11891.4	11806.9	11835.8	11835.8
22.5°	11600.2	11646.8	11611.3	11631.3	11635.8
25°	11326.7	11344.4	11384.4	11402.3	11393.3
27.5°	11064.5	11042.2	11120.1	11162.2	11139.8
30°	10773.1	10737.6	10828.7	10897.6	10871.0
32.5°	10439.6	10417.5	10522.0	10604.1	10588.6
35°	10124.0	10064.0	10179.5	10304.1	10275.1
37.5°	9750.5	9714.9	9846.0	9977.4	9961.8
40°	9385.9	9325.9	9474.9	9630.4	9614.9
42.5°	8994.7	8923.4	9085.8	9272.7	9254.8
45°	8538.8	8523.3	8667.8	8872.3	8856.8
47.5°	8134.5	8056.6	8258.7	8456.7	8474.6
50°	7645.1	7616.4	7800.9	8041.0	8058.7
52.5°	7167.3	7147.3	7340.6	7583.0	7614.1
55°	6691.4	6640.4	6864.9	7093.9	7111.8
57.5°	6182.6	6129.1	6358.2	6607.2	6644.8
60°	5637.7	5586.6	5837.8	6069.1	4826.4
62.5°	5093.1	5057.5	5320.0	3768.2	3036.9
65°	4508.4	4508.4	4770.6	2736.6	2745.5
67.5°	3961.7	3926.1	3557.1	2458.6	2458.6
70°	3374.7	3388.1	2049.6	2154.3	2156.4
72.5°	2785.5	2834.5	1769.7	1854.0	1858.4
75°	2227.5	2269.9	1473.9	1551.8	1558.4
77.5°	1636.3	1258.3	1184.8	1245.1	1247.2
80°	1149.3	793.7	907.1	964.8	958.2
82.5°	671.3	555.7	664.7	707.0	704.7
85°	291.1	369.1	460.1	498.0	471.2
87.5°	93.2	229.0	286.7	309.0	306.7
90°	0.0	124.5	204.5	242.2	238.0
92.5°	0.0	97.7	177.9	222.4	224.5
95°	6.6	64.5	146.9	197.9	197.9
97.5°	4.5	46.6	104.5	155.6	160.0
100°	4.5	37.7	69.0	111.1	113.4
102.5°	11.1	31.1	42.1	71.1	73.4
105°	11.1	24.5	35.5	35.5	33.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	13.4	17.9	24.5	17.9	2.1
115°	11.1	15.5	22.1	15.5	2.1
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	11.1	22.1	31.1	20.0	6.6
110°	13.4	20.0	26.6	17.9	2.1



(END OF REPORT)