

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: P827197

Luminaire Tested: **OHBL-36HE-W-UNV-L840-CD-UPL18**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P827197
REPORT IS A COMBINATION OF REPORTS P826172 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-36HE-W-UNV-L840-CD-UPL18
Description: 36000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND WIDE LENS AND 1800 LUMEN UPLIGHT MODULE
Light Source: -
Ballast/Driver: -

Summary

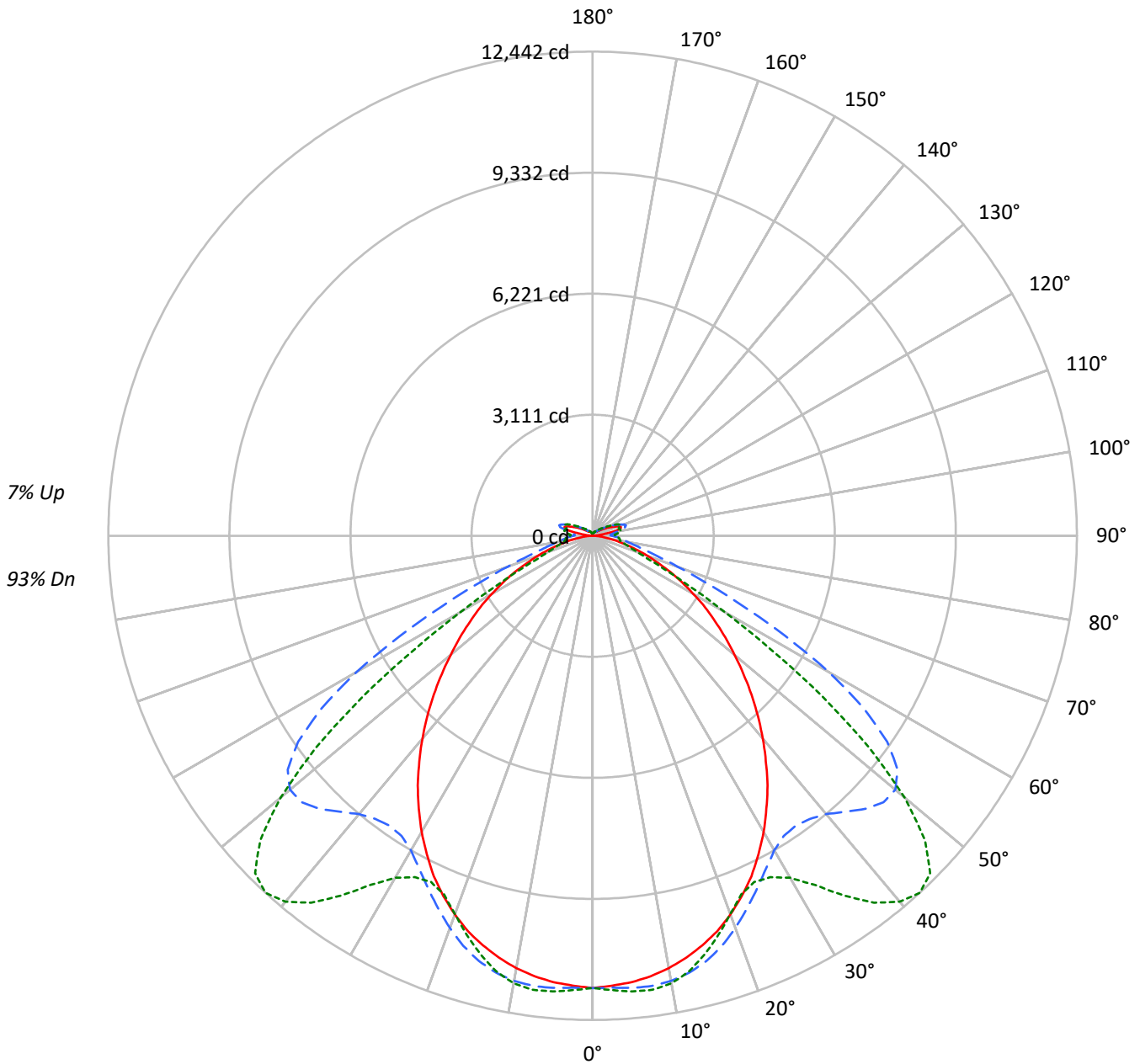
Lumens per Lamp: N/A
Luminaire Lumens: 36586.9 lumens
Efficiency: N/A
Efficacy: 163.1 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')
CIE Type: Direct

Input Watts (W): 224.3
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	114	114	114	114	107	107	107	101	101	101	96	96	96	93																			
1	108	103	99	95	104	100	96	93	95	92	89	90	87	85	85	83	81	79																			
2	98	90	84	78	95	88	82	77	83	78	74	79	75	71	75	72	69	66																			
3	90	79	71	65	86	77	70	64	73	67	62	70	64	60	66	62	58	56																			
4	82	70	62	55	79	68	60	54	65	58	53	62	56	51	59	54	50	48																			
5	75	63	54	47	73	61	53	47	58	51	45	55	49	44	53	48	43	41																			
6	69	56	47	41	67	55	47	41	52	45	40	50	44	39	48	42	38	36																			
7	64	51	42	36	62	50	41	36	47	40	35	45	39	34	43	38	33	31																			
8	59	46	38	32	58	45	37	32	43	36	31	41	35	30	40	34	30	28																			
9	55	42	34	28	54	41	34	28	40	33	28	38	32	27	37	31	27	25																			
10	52	39	31	26	50	38	30	25	37	30	25	35	29	25	34	28	24	22																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18379	18379	18379
5°	18131	18362	18589
10°	17828	18342	18611
15°	17405	18047	18014
20°	16855	17435	17132
25°	16147	16692	16788
30°	15234	16141	18066
35°	14206	16449	21140
40°	13031	17826	24439
45°	11810	20234	26270
50°	10545	22392	24446
55°	9354	22385	18679
60°	8147	18960	11420
65°	6881	13111	6918
70°	5472	8492	4995
75°	4030	6103	4631
80°	2740	5384	5225
85°	1658	5966	8259



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1110.6	3.0
10°-20°	3144.8	8.6
20°-30°	4601.9	12.6
30°-40°	5976.5	16.3
40°-50°	7298.1	19.9
50°-60°	6427.1	17.6
60°-70°	3349.2	9.2
70°-80°	1436.3	3.9
80°-90°	694.2	1.9
90°-100°	495.3	1.4
100°-110°	796.0	2.2
110°-120°	630.0	1.7
120°-130°	310.1	0.8
130°-140°	155.0	0.4
140°-150°	86.8	0.2
150°-160°	47.0	0.1
160°-170°	21.5	0.1
170°-180°	6.6	0.0
0°-30°	8857.3	24.2
0°-40°	14833.8	40.5
0°-60°	28558.9	78.1
0°-90°	34038.6	93.0
90°-120°	1921.3	5.3
90°-150°	2473.2	6.8
90°-180°	2548.0	7.0
0°-180°	36586.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11622	11622	11622	11622	11622	
5°	11514	11602	11664	11767	11754	###
15°	10894	11200	11308	11223	11133	3068
25°	9653	10170	9997	9809	9819	4430
35°	7836	8663	9097	10609	11288	4884
45°	5769	7259	9922	12013	12263	4449
55°	3841	6359	9240	8101	7201	3447
65°	2204	4405	4230	2352	2023	2181
75°	888	2061	1359	930	883	968
85°	188	735	692	677	684	210
90°	6	291	490	566	584	16
95°	43	238	493	593	630	123
105°	751	822	862	724	695	713
115°	528	569	663	690	694	533
125°	268	287	354	378	379	250
135°	163	166	196	226	229	129
145°	128	125	131	147	152	80
155°	106	108	104	105	105	47
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°	11621.6	11621.6	11621.6	11621.6	11621.6
2.5°	11571.4	11621.6	11624.1	11694.3	11686.8
5°	11513.7	11601.5	11664.2	11767.0	11754.5
7.5°	11418.5	11556.4	11666.7	11779.5	11769.5
10°	11283.1	11471.1	11616.5	11709.3	11679.2
12.5°	11107.6	11355.8	11498.7	11518.8	11461.1
15°	10894.4	11200.3	11308.1	11222.9	11132.6
17.5°	10653.7	11012.3	11049.9	10864.3	10751.5
20°	10352.8	10761.5	10723.9	10468.2	10342.8
22.5°	10019.4	10485.7	10365.4	10097.1	9976.7
25°	9653.3	10169.8	9996.8	9808.7	9818.8
27.5°	9224.5	9811.3	9643.3	9728.5	9889.0
30°	8788.3	9435.2	9332.4	9828.8	10144.7
32.5°	8309.4	9049.0	9141.8	10122.2	10638.7
35°	7835.5	8662.9	9096.7	10608.6	11288.1
37.5°	7311.4	8271.7	9169.4	11170.2	11882.3
40°	6802.4	7890.6	9334.9	11674.2	12276.0
42.5°	6283.4	7549.6	9613.2	11972.6	12441.5
45°	5769.4	7258.8	9921.6	12012.7	12263.4
47.5°	5255.4	7013.1	10134.7	11694.3	11578.9
50°	4758.9	6794.9	10149.7	10929.5	10458.2
52.5°	4295.1	6594.3	9873.9	9711.0	8978.8
55°	3841.3	6358.6	9239.6	8101.2	7201.1
57.5°	3427.5	6032.7	8261.7	6371.2	5388.3
60°	2988.8	5591.4	6998.0	4661.2	3886.4
62.5°	2585.1	5042.3	5581.4	3244.5	2793.2
65°	2204.0	4405.4	4229.9	2351.9	2023.4
67.5°	1800.3	3746.0	3121.6	1715.0	1504.4
70°	1484.4	3134.2	2324.3	1333.9	1211.0
72.5°	1160.9	2552.5	1737.6	1083.2	1015.5
75°	887.6	2061.0	1359.0	930.2	882.6
77.5°	654.4	1629.8	1093.2	822.4	777.3
80°	458.8	1283.8	915.2	734.7	717.1
82.5°	308.4	992.9	779.8	699.6	702.1
85°	188.1	734.7	692.0	677.0	684.5
87.5°	90.3	521.5	594.2	616.8	624.3
90°	6.5	290.8	490.3	566.5	584.1
92.5°	13.0	236.1	456.2	542.4	562.9
95°	43.0	237.5	492.6	593.2	629.8
97.5°	200.0	340.9	564.0	673.1	696.7
100°	409.5	532.3	644.9	724.5	738.1
102.5°	636.5	725.8	714.8	725.9	724.9
105°	751.0	821.8	861.7	724.3	695.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	617.0	666.2	759.5	778.6	758.6
115°	528.0	569.1	663.4	690.0	694.0
117.5°	454.6	485.1	569.9	598.0	601.5
120°	382.6	409.6	486.3	513.4	513.9
122.5°	322.6	344.1	416.8	441.4	441.9
125°	267.6	287.1	354.2	378.3	378.8
127.5°	227.0	238.6	302.7	326.8	327.3
130°	199.0	206.0	257.2	283.2	289.3
132.5°	180.0	183.0	224.1	250.2	257.2
135°	163.0	166.0	196.1	225.7	229.2
137.5°	150.0	153.0	174.6	201.7	207.7
140°	139.0	142.0	155.1	182.1	185.7
142.5°	132.6	133.0	143.6	164.6	168.1
145°	128.1	125.0	130.6	146.6	151.6
147.5°	121.1	120.6	122.6	134.6	137.1
150°	115.1	117.1	114.0	120.1	126.1
152.5°	111.1	112.1	109.0	110.0	115.1
155°	106.1	108.1	104.0	105.0	105.0
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°	760.5	825.7	900.6	789.2	707.3
110°	697.5	760.7	848.5	828.7	764.7



(END OF REPORT)