

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: P827209

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

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P827209
REPORT IS A COMBINATION OF REPORTS P826178 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-W-UNV-L840-CD-UPL18
Description: 36000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND WIDE LENS AND 1800 LUMEN UPLIGHT MODULE
Light Source: -
Ballast/Driver: -

Summary

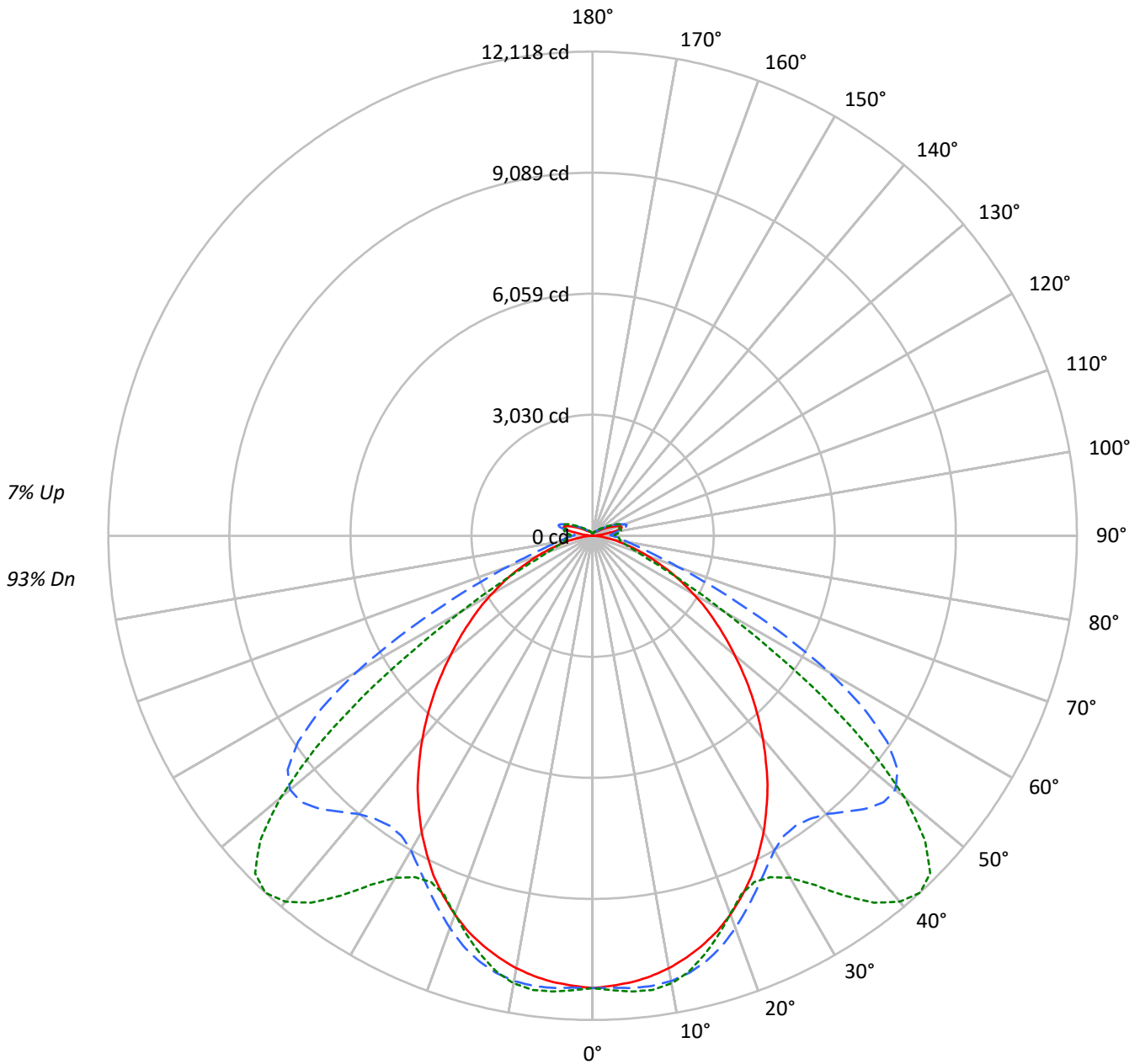
Lumens per Lamp: N/A
Luminaire Lumens: 35682.9 lumens
Efficiency: N/A
Efficacy: 159.8 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')
CIE Type: Direct

Input Watts (W): 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	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	89	87	85	85	83	81	79																			
2	98	90	84	78	95	88	82	77	83	78	74	79	75	71	75	71	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	36	30	25	35	29	25	34	28	24	22																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17902	17902	17902
5°	17660	17885	18106
10°	17365	17866	18127
15°	16953	17578	17546
20°	16418	16982	16687
25°	15728	16258	16352
30°	14838	15722	17596
35°	13837	16022	20591
40°	12692	17363	23804
45°	11503	19708	25587
50°	10271	21811	23811
55°	9111	21804	18194
60°	7935	18467	11124
65°	6702	12770	6738
70°	5329	8271	4865
75°	3926	5944	4511
80°	2669	5244	5089
85°	1615	5810	8044



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1081.7	3.0
10°-20°	3063.1	8.6
20°-30°	4482.3	12.6
30°-40°	5821.2	16.3
40°-50°	7108.5	19.9
50°-60°	6260.1	17.5
60°-70°	3262.2	9.1
70°-80°	1398.9	3.9
80°-90°	676.3	1.9
90°-100°	486.9	1.4
100°-110°	790.8	2.2
110°-120°	626.9	1.8
120°-130°	308.4	0.9
130°-140°	154.2	0.4
140°-150°	86.4	0.2
150°-160°	46.9	0.1
160°-170°	21.5	0.1
170°-180°	6.6	0.0
0°-30°	8627.2	24.2
0°-40°	14448.4	40.5
0°-60°	27817.0	78.0
0°-90°	33154.5	92.9
90°-120°	1904.6	5.3
90°-150°	2453.5	6.9
90°-180°	2528.0	7.1
0°-180°	35682.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11320	11320	11320	11320	11320	
5°	11215	11300	11361	11461	11449	###
15°	10611	10909	11014	10931	10843	2988
25°	9402	9906	9737	9554	9564	4315
35°	7632	8438	8860	10333	10995	4757
45°	5620	7070	9664	11701	11945	4333
55°	3742	6193	9000	7891	7014	3358
65°	2147	4291	4120	2291	1971	2124
75°	864	2008	1324	906	860	943
85°	183	716	674	659	667	204
90°	6	284	478	553	570	16
95°	43	233	483	582	618	123
105°	751	820	856	717	688	713
115°	528	568	660	685	689	533
125°	267	286	352	376	376	250
135°	163	166	195	224	227	129
145°	128	125	130	146	151	80
155°	106	108	104	105	105	46
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°	11319.6	11319.6	11319.6	11319.6	<i>11319.6</i>
2.5°	11270.8	11319.6	11322.1	11390.5	<i>11383.1</i>
5°	11214.6	11300.1	11361.2	11461.3	<i>11449.1</i>
7.5°	11121.8	11256.1	11363.6	11473.5	<i>11463.7</i>
10°	10989.9	11173.1	11314.8	11405.1	<i>11375.8</i>
12.5°	10819.0	11060.8	11200.0	11219.5	<i>11163.3</i>
15°	10611.4	10909.4	11014.4	10931.3	<i>10843.4</i>
17.5°	10377.0	10726.2	10762.8	10582.1	<i>10472.2</i>
20°	10083.9	10482.0	10445.3	10196.2	<i>10074.1</i>
22.5°	9759.1	10213.3	10096.1	9834.8	<i>9717.6</i>
25°	9402.5	9905.6	9737.1	9553.9	<i>9563.7</i>
27.5°	8984.9	9556.4	9392.7	9475.8	<i>9632.1</i>
30°	8559.9	9190.0	9089.9	9573.5	<i>9881.2</i>
32.5°	8093.5	8813.9	8904.3	9859.2	<i>10362.3</i>
35°	7631.9	8437.8	8860.3	10333.0	<i>10994.8</i>
37.5°	7121.5	8056.9	8931.2	10880.0	<i>11573.6</i>
40°	6625.7	7685.6	9092.3	11370.9	<i>11957.1</i>
42.5°	<i>6120.2</i>	<i>7353.5</i>	<i>9363.4</i>	<i>11661.6</i>	<i>12118.2</i>
45°	5619.5	7070.2	9663.8	11700.6	<i>11944.8</i>
47.5°	5118.9	6830.9	9871.4	11390.5	<i>11278.1</i>
50°	4635.3	6618.4	9886.1	10645.6	<i>10186.5</i>
52.5°	4183.5	6423.0	9617.4	9458.7	<i>8745.6</i>
55°	3741.5	6193.4	8999.5	7890.8	<i>7014.0</i>
57.5°	3338.5	5876.0	8047.1	6205.7	<i>5248.3</i>
60°	2911.1	5446.1	6816.2	4540.1	<i>3785.4</i>
62.5°	2517.9	4911.3	5436.4	3160.2	<i>2720.6</i>
65°	2146.7	4291.0	4120.0	2290.8	<i>1970.9</i>
67.5°	1753.5	3648.7	3040.6	1670.5	<i>1465.3</i>
70°	1445.8	3052.8	2263.9	1299.3	<i>1179.6</i>
72.5°	1130.7	2486.2	1692.5	1055.0	<i>989.1</i>
75°	864.5	2007.5	1323.7	906.1	<i>859.7</i>
77.5°	637.4	1587.4	1064.8	801.0	<i>757.1</i>
80°	446.9	1250.4	891.4	715.6	<i>698.5</i>
82.5°	300.4	967.1	759.5	681.4	<i>683.8</i>
85°	183.2	715.6	674.0	659.4	<i>666.7</i>
87.5°	87.9	508.0	578.8	600.8	<i>608.1</i>
90°	6.4	283.9	478.5	553.0	<i>570.2</i>
92.5°	13.0	230.8	445.8	530.3	<i>550.5</i>
95°	42.9	233.4	483.1	582.2	<i>618.4</i>
97.5°	199.9	337.6	555.5	663.0	<i>686.3</i>
100°	409.3	529.5	637.3	715.4	<i>728.7</i>
102.5°	636.3	723.2	708.0	717.7	<i>716.6</i>
105°	750.8	819.5	855.6	717.0	<i>687.9</i>



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	616.7	664.6	755.2	773.4	753.3
115°	527.7	567.8	659.6	685.4	689.3
117.5°	454.1	484.0	566.6	593.9	597.3
120°	382.1	408.6	483.5	509.8	510.2
122.5°	322.1	343.3	414.2	438.1	438.6
125°	267.1	286.4	352.0	375.5	375.9
127.5°	226.7	238.1	300.8	324.2	324.7
130°	198.7	205.7	255.6	281.0	286.9
132.5°	179.7	182.7	222.8	248.3	255.2
135°	162.7	165.7	195.1	223.9	227.4
137.5°	149.7	152.7	173.7	200.2	206.1
140°	138.7	141.7	154.4	180.8	184.3
142.5°	132.1	132.7	143.0	163.5	167.0
145°	127.5	124.7	130.1	145.7	150.6
147.5°	120.5	120.1	122.1	133.9	136.3
150°	114.5	116.5	113.7	119.5	125.4
152.5°	110.5	111.5	108.7	109.7	114.5
155°	105.5	107.5	103.7	104.7	104.7
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°	760.2	823.7	895.1	782.7	700.5
110°	697.2	758.9	843.7	822.8	758.7



(END OF REPORT)