

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: P827210

Luminaire Tested: **OHBL-36SE-W-UNV-L840-CD-UPL36**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P827210
REPORT IS A COMBINATION OF REPORTS P826322 AND G3-2310-221-2
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-UPL36
Description: 36000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND WIDE LENS AND 3600 LUMEN UPLIGHT MODULE
Light Source: -
Ballast/Driver: -

Summary

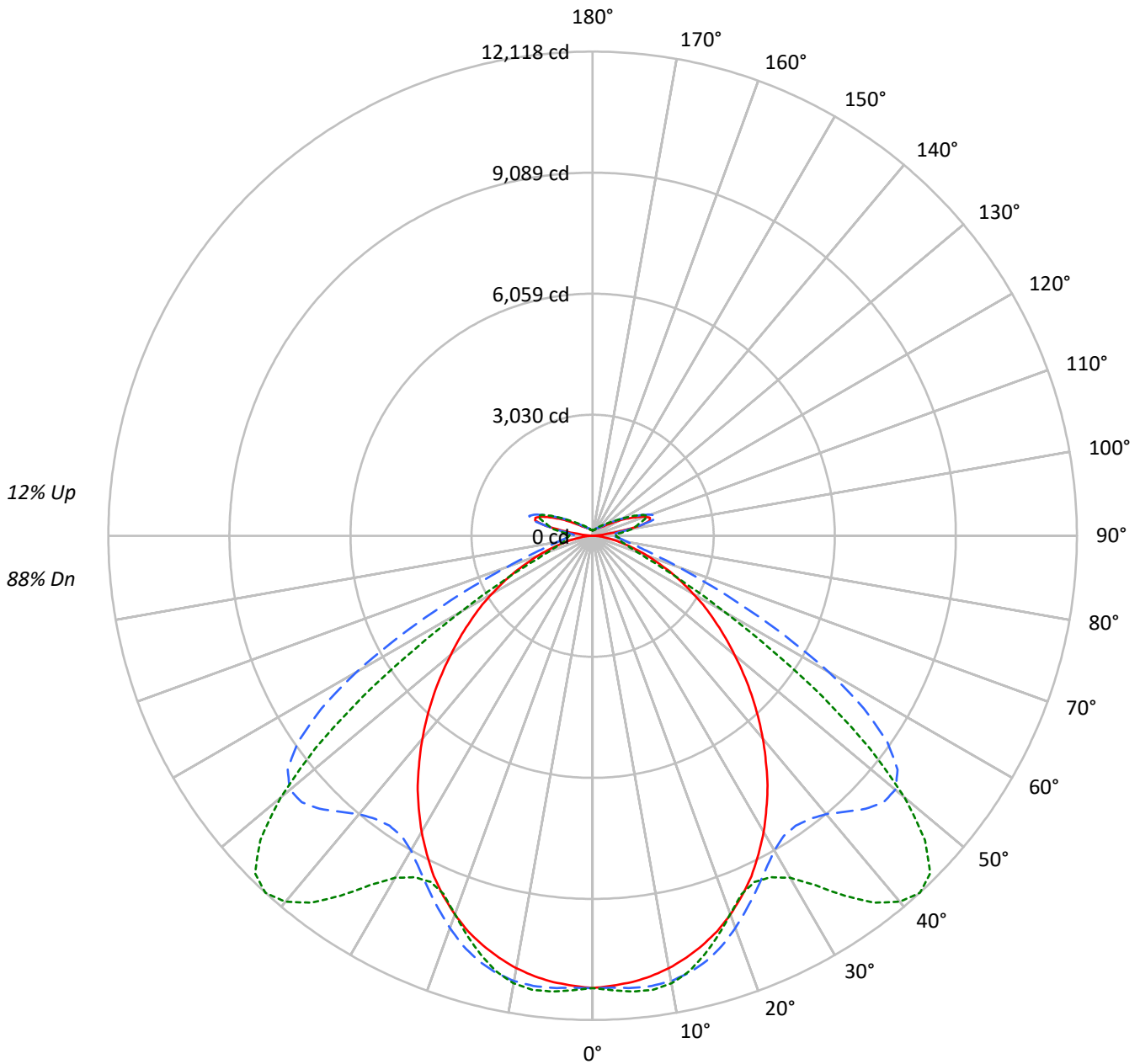
Lumens per Lamp: N/A
Luminaire Lumens: 37475.1 lumens
Efficiency: N/A
Efficacy: 156.3 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 239.8
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				20				
RC	80				70				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	116	116	116	116	112	112	112	112	105	105	105	98	98	98	91	91	91	88			88
1	107	102	98	94	103	99	95	92	92	89	87	87	84	82	81	79	78	75			75
2	97	89	83	77	94	86	81	76	81	76	72	76	72	69	72	68	66	63			63
3	89	79	71	64	85	76	69	63	72	66	61	67	62	58	63	59	56	53			53
4	81	69	61	54	78	67	60	53	63	57	52	60	54	50	56	52	48	45			45
5	74	62	53	47	72	60	52	46	57	50	44	54	48	43	51	45	41	39			39
6	69	56	47	40	66	54	46	40	51	44	39	48	42	37	46	40	36	34			34
7	63	50	42	36	61	49	41	35	46	39	34	44	38	33	42	36	32	30			30
8	59	46	37	31	57	44	36	31	42	35	30	40	34	29	38	33	28	26			26
9	55	42	34	28	53	41	33	28	39	32	27	37	31	26	35	30	26	24			24
10	51	38	30	25	49	37	30	25	36	29	24	34	28	24	32	27	23	21			21

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	2.9
10°-20°	3063.1	8.2
20°-30°	4482.3	12.0
30°-40°	5821.2	15.5
40°-50°	7108.5	19.0
50°-60°	6260.1	16.7
60°-70°	3262.2	8.7
70°-80°	1398.9	3.7
80°-90°	679.5	1.8
90°-100°	590.8	1.6
100°-110°	1442.3	3.8
110°-120°	1147.3	3.1
120°-130°	551.1	1.5
130°-140°	278.8	0.7
140°-150°	159.7	0.4
150°-160°	90.1	0.2
160°-170°	44.1	0.1
170°-180°	13.4	0.0
0°-30°	8627.2	23.0
0°-40°	14448.4	38.6
0°-60°	27817.0	74.2
0°-90°	33157.7	88.5
90°-120°	3180.3	8.5
90°-150°	4169.9	11.1
90°-180°	4317.0	11.5
0°-180°	37475.1	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°	10	308	508	580	593	18
95°	67	275	519	625	653	234
105°	1487	1560	1616	1307	1212	1414
115°	1045	1065	1166	1204	1199	1056
125°	524	549	620	636	628	492
135°	315	322	354	384	387	249
145°	238	238	245	263	269	151
155°	196	198	197	199	199	88
165°	151	153	154	155	156	43
175°	138	138	139	139	140	13
180°	136	136	136	136	136	



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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°	10.4	307.9	507.5	580.0	<i>593.2</i>
92.5°	25.0	257.8	467.8	550.3	<i>568.5</i>
95°	66.9	275.4	519.1	625.2	<i>653.4</i>
97.5°	378.9	526.6	666.5	798.0	<i>829.3</i>
100°	810.3	931.5	922.3	988.4	<i>1015.7</i>
102.5°	1265.3	1370.2	1262.0	1141.7	<i>1116.6</i>
105°	1486.8	1559.5	1615.6	1307.0	<i>1211.9</i>



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1224.7	1271.6	1363.2	1393.4	1366.3
115°	1044.7	1064.8	1165.6	1204.4	1199.3
117.5°	898.1	915.0	1003.6	1028.9	1020.3
120°	758.1	777.6	858.5	873.8	868.2
122.5°	631.1	657.3	730.2	747.1	736.6
125°	524.1	549.4	620.0	635.5	627.9
127.5°	449.7	458.1	525.8	545.2	547.7
130°	388.7	396.7	451.6	478.0	480.9
132.5°	346.7	354.7	398.8	426.3	434.2
135°	314.7	321.7	354.1	383.9	387.4
137.5°	288.7	294.7	317.7	347.2	353.1
140°	266.7	272.7	288.4	316.8	319.3
142.5°	251.1	254.7	267.0	289.5	292.0
145°	237.5	237.7	245.1	262.7	268.6
147.5°	225.5	227.1	232.1	242.9	246.3
150°	214.5	217.5	216.7	223.5	229.4
152.5°	204.5	207.5	206.7	207.7	213.5
155°	195.5	198.5	196.7	198.7	198.7
157.5°	168.0	171.0	174.0	175.0	175.0
160°	162.0	164.0	167.0	167.0	168.0
162.5°	156.0	158.0	160.0	161.0	162.0
165°	151.0	153.0	154.0	155.0	156.0
167.5°	147.0	148.0	149.0	150.0	150.0
170°	143.0	144.0	145.0	145.0	146.0
172.5°	140.0	141.0	142.0	142.0	142.0
175°	138.0	138.0	139.0	139.0	140.0
177.5°	136.0	137.0	137.0	137.0	138.0
180°	136.0	136.0	136.0	136.0	136.0



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	1503.2	1569.7	1663.1	1530.7	1361.5
110°	1388.2	1454.9	1546.7	1528.8	1454.7



(END OF REPORT)