

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: P827205

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

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P827205
REPORT IS A COMBINATION OF REPORTS P826176 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-N-UNV-L840-CD-UPL18
Description: 36000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND NARROW LENS AND 1800 LUMEN UPLIGHT MODULE
Light Source: -
Ballast/Driver: -

Summary

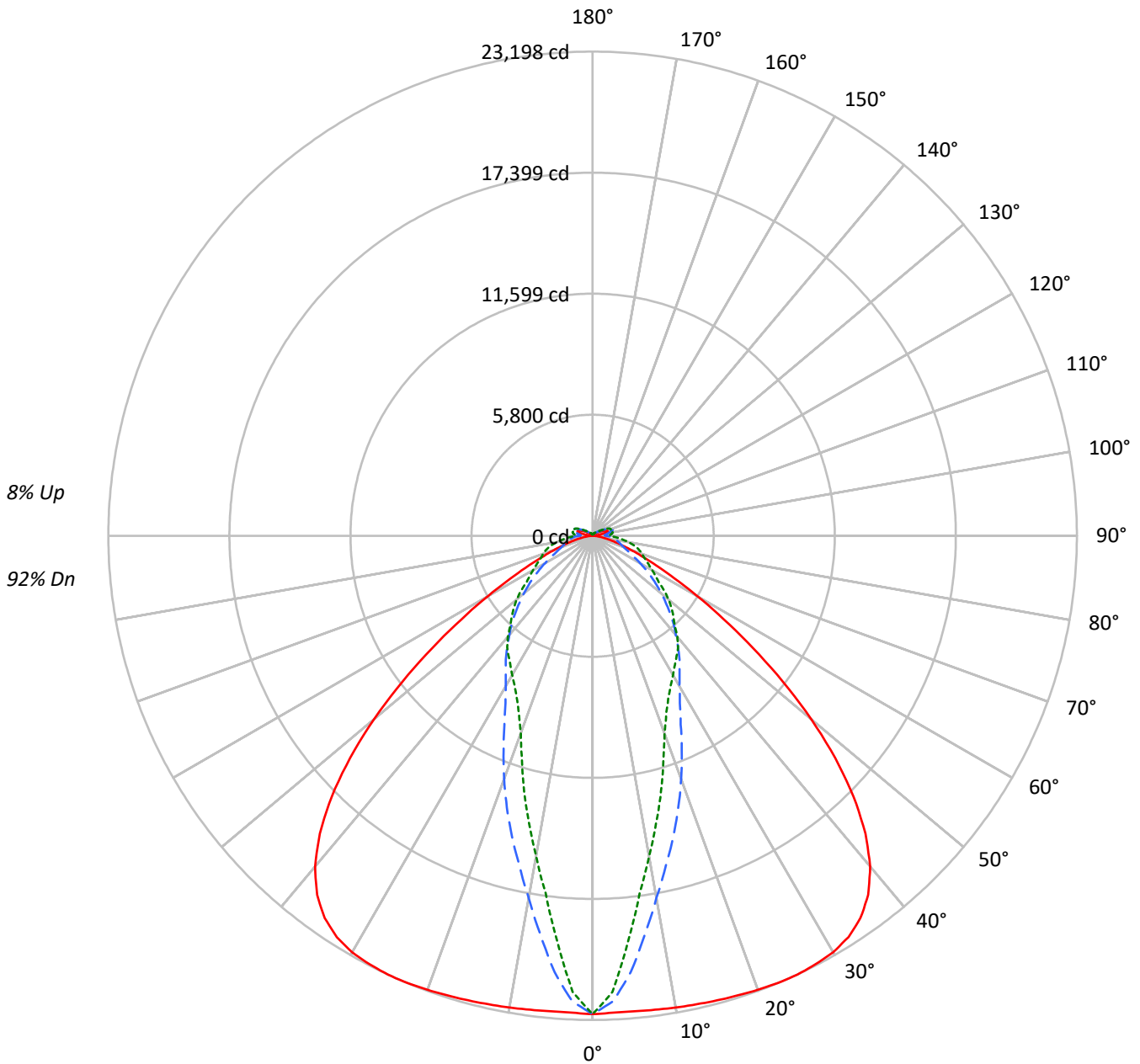
Lumens per Lamp: N/A
Luminaire Lumens: 35612.9 lumens
Efficiency: N/A
Efficacy: 159.5 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')
CIE Type: Direct

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

TEST NUMBER: P827205

CATALOG NUMBER: OHBL-36SE-N-UNV-L840-CD-UPL18

Luminous Intensity Polar Plot





TEST NUMBER: P827205

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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	113	113	113	113	107	107	107	100	100	100	94	94	94	92																			
1	108	103	99	96	104	100	97	93	94	92	89	89	87	85	84	83	81	78																			
2	99	92	85	80	96	89	83	79	84	80	76	80	76	73	76	73	70	67																			
3	91	82	74	68	88	80	73	67	76	70	65	72	67	63	68	64	61	59																			
4	84	73	66	59	82	72	64	59	68	62	57	65	60	55	62	58	54	52																			
5	78	67	58	52	76	65	57	52	62	55	50	59	54	49	57	52	48	46																			
6	73	61	52	47	70	59	52	46	57	50	45	54	49	44	52	47	43	41																			
7	68	56	48	42	66	54	47	41	52	45	41	50	44	40	48	43	39	37																			
8	64	51	43	38	62	50	43	38	48	42	37	46	41	36	45	39	36	34																			
9	60	47	40	35	58	46	39	34	45	38	34	43	37	33	42	36	33	31																			
10	56	44	37	32	55	43	36	32	42	35	31	40	35	31	39	34	30	28																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	36243	36243	36243
5°	36016	33020	30836
10°	36269	27826	24847
15°	36818	23809	20495
20°	37684	20141	16662
25°	38804	16680	14678
30°	39944	14377	13715
35°	40553	13110	13149
40°	39617	11849	12562
45°	36195	10716	11722
50°	30292	9475	11104
55°	22796	8307	9991
60°	15784	7133	9697
65°	10453	6152	9664
70°	6986	5786	10390
75°	4694	5984	11513
80°	3061	6659	12601
85°	1595	8405	15026



TEST NUMBER: P827205

CATALOG NUMBER: OHBL-36SE-N-UNV-L840-CD-UPL18

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1929.1	5.4
10°-20°	4538.1	12.7
20°-30°	5688.5	16.0
30°-40°	6036.2	16.9
40°-50°	5457.6	15.3
50°-60°	3957.2	11.1
60°-70°	2483.3	7.0
70°-80°	1643.4	4.6
80°-90°	951.2	2.7
90°-100°	629.9	1.8
100°-110°	911.2	2.6
110°-120°	706.2	2.0
120°-130°	340.0	1.0
130°-140°	166.1	0.5
140°-150°	94.9	0.3
150°-160°	51.9	0.1
160°-170°	21.5	0.1
170°-180°	6.6	0.0
0°-30°	12155.8	34.1
0°-40°	18191.9	51.1
0°-60°	27606.7	77.5
0°-90°	32684.6	91.8
90°-120°	2247.3	6.3
90°-150°	2848.3	8.0
90°-180°	2928.0	8.2
0°-180°	35612.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	22917	22917	22917	22917	22917	
5°	22871	22284	20976	20003	19499	###
15°	23046	18784	14919	13268	12666	6536
25°	23198	14524	9990	8866	8585	10717
35°	22367	9656	7250	7023	7021	13905
45°	17682	6116	5254	5381	5472	13470
55°	9361	3791	3429	3719	3852	8458
65°	3348	2199	1985	2543	2827	3484
75°	1034	1184	1333	2070	2194	1152
85°	181	491	975	1357	1245	217
90°	4	230	599	841	853	15
95°	47	226	626	843	898	127
105°	758	830	988	921	900	720
115°	537	587	762	817	823	541
125°	276	297	393	425	421	258
135°	170	177	210	243	244	134
145°	134	138	146	164	162	84
155°	112	121	124	127	123	48
165°	74	75	75	76	76	21
175°	67	67	68	68	68	6
180°	67	67	67	67	67	



TEST NUMBER: P827205

CATALOG NUMBER: OHBL-36SE-N-UNV-L840-CD-UPL18

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	22916.9	22916.9	22916.9	22916.9	22916.9
2.5°	22868.9	22738.0	22330.2	22081.5	21872.1
5°	22871.1	22284.4	20975.7	20002.9	19499.1
7.5°	22903.8	21599.5	19241.7	17821.8	17267.8
10°	22954.0	20751.0	17623.3	16109.7	15592.7
12.5°	22991.0	19795.7	16199.1	14643.9	14076.9
15°	23045.6	18783.7	14918.8	13267.7	12665.7
17.5°	23095.7	17830.5	13653.7	11928.5	11258.9
20°	23145.9	16803.2	12388.7	10611.1	10059.3
22.5°	23193.9	15719.2	11154.2	9588.1	9210.8
25°	23198.2	14524.0	9989.5	8866.2	8584.8
27.5°	23141.5	13285.1	9045.0	8262.0	8087.5
30°	23043.4	12083.3	8312.2	7825.8	7701.5
32.5°	22799.1	10857.5	7745.1	7404.9	7332.9
35°	22367.2	9655.8	7250.0	7023.2	7021.0
37.5°	21686.7	8589.2	6713.4	6674.2	6722.2
40°	20681.3	7655.7	6205.2	6309.9	6309.9
42.5°	19339.9	6844.3	5745.0	5851.9	5823.6
45°	17682.2	6115.8	5254.3	5380.8	5472.4
47.5°	15760.7	5474.6	4752.6	4996.9	5123.4
50°	13671.2	4863.9	4294.6	4606.5	4750.5
52.5°	11481.3	4299.0	3847.5	4205.2	4320.8
55°	9361.3	3790.8	3428.7	3718.8	3851.8
57.5°	7441.9	3306.6	3018.7	3293.5	3568.3
60°	5790.8	2890.0	2632.6	3025.2	3300.0
62.5°	4423.3	2519.2	2270.5	2774.4	3049.2
65°	3348.0	2198.6	1984.8	2543.2	2826.7
67.5°	2523.5	1921.6	1762.3	2375.2	2652.2
70°	1895.4	1653.3	1583.5	2270.5	2519.2
72.5°	1400.3	1406.8	1441.7	2178.9	2368.7
75°	1033.8	1184.3	1332.7	2069.9	2194.2
77.5°	739.4	981.5	1234.5	1939.0	1982.6
80°	512.6	800.5	1132.0	1766.7	1729.6
82.5°	320.6	641.2	1040.4	1576.9	1474.4
85°	181.0	490.7	975.0	1356.6	1245.4
87.5°	80.7	366.4	852.8	1057.8	988.0
90°	4.0	230.0	598.9	841.1	852.6
92.5°	17.4	203.1	576.3	804.5	834.3
95°	46.7	226.0	626.3	843.1	897.7
97.5°	205.9	339.5	704.8	910.2	952.3
100°	415.1	535.4	783.7	949.0	976.8
102.5°	644.3	732.7	848.8	935.6	947.1
105°	758.4	830.0	988.1	920.8	899.9



TEST NUMBER: P827205

CATALOG NUMBER: OHBL-36SE-N-UNV-L840-CD-UPL18

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	623.8	680.2	866.6	922.6	908.5
115°	537.0	586.6	762.3	817.4	822.9
117.5°	463.2	498.9	655.7	708.3	711.5
120°	391.2	424.3	559.2	602.0	600.0
122.5°	331.2	357.6	471.7	505.8	501.6
125°	276.2	296.9	393.3	425.0	420.9
127.5°	236.0	249.4	330.3	359.9	355.7
130°	208.0	219.4	277.7	309.2	310.2
132.5°	186.8	194.2	239.4	271.0	273.0
135°	169.8	177.2	210.5	243.1	244.1
137.5°	156.8	166.4	187.8	218.2	219.2
140°	145.8	153.2	169.3	197.4	198.4
142.5°	139.0	144.2	155.9	178.7	179.7
145°	134.2	138.4	145.7	164.2	162.0
147.5°	127.2	133.5	137.7	150.6	148.4
150°	121.2	129.7	131.7	139.3	138.1
152.5°	117.2	124.7	126.7	132.1	129.9
155°	112.2	120.7	123.9	127.1	122.7
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°	765.4	837.4	1021.5	965.7	893.9
110°	704.6	773.7	966.2	986.9	933.1



(END OF REPORT)