

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: P827188

Luminaire Tested: **OHBL-36HE-A-UNV-L840-CD-UPL36**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P827188
REPORT IS A COMBINATION OF REPORTS P826311 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-36HE-A-UNV-L840-CD-UPL36
Description: 36000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND AISLE LENS AND 3600 LUMEN UPLIGHT MODULE
Light Source: -
Ballast/Driver: -

Summary

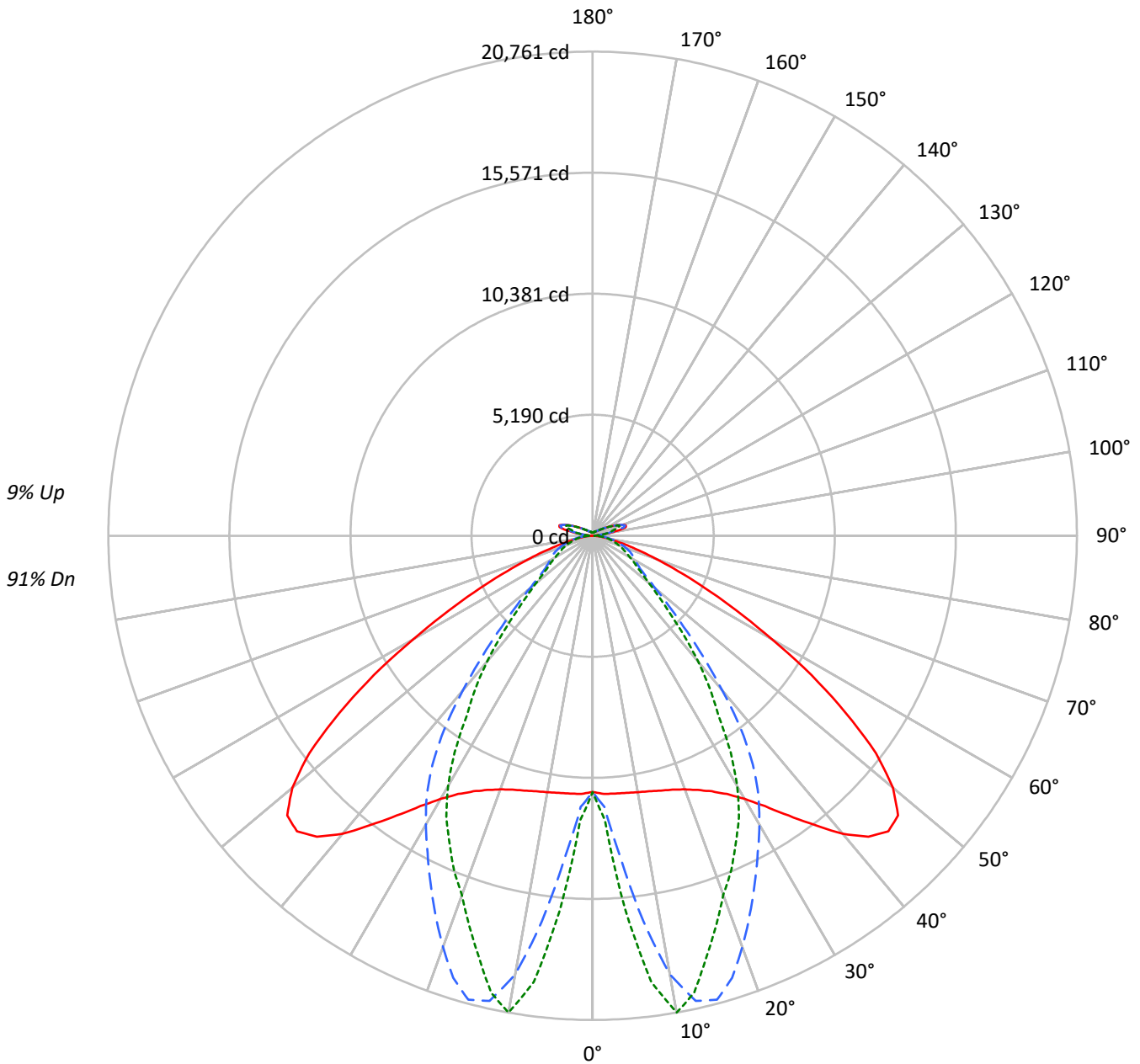
Lumens per Lamp: N/A
Luminaire Lumens: 38837.1 lumens
Efficiency: N/A
Efficacy: 161.3 lumens/watt
Spacing Criteria (0/90/45): 2.18 / 1.37 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')
CIE Type: Direct

Input Watts (W): 240.8
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									
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	106	106	106	100	100	100	94	94	94	91																			
1	108	104	101	98	105	101	98	95	95	93	91	90	88	86	85	84	82	79																			
2	100	93	87	83	97	91	85	81	86	81	78	81	78	75	77	74	72	69																			
3	93	84	77	71	90	81	75	70	77	72	68	73	69	65	70	66	63	61																			
4	86	75	68	62	83	73	66	61	70	64	59	67	62	58	64	59	56	54																			
5	80	68	60	55	77	67	59	54	64	57	53	61	55	51	58	54	50	48																			
6	74	62	54	49	72	61	53	48	58	52	47	56	50	46	53	49	45	43																			
7	69	57	49	44	67	56	48	43	53	47	42	51	46	41	49	44	40	39																			
8	65	52	45	39	63	51	44	39	49	43	38	47	42	38	46	41	37	35																			
9	60	48	41	36	59	47	40	35	46	39	35	44	38	34	42	37	34	32																			
10	57	45	38	33	55	44	37	32	42	36	32	41	35	31	40	34	31	29																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17375	17375	17375
5°	17475	21863	25470
10°	17641	30155	33082
15°	18074	32865	30364
20°	18833	30508	27136
25°	20221	27451	24821
30°	22565	24731	22071
35°	26549	21658	17588
40°	31951	16504	13997
45°	36687	11252	9963
50°	37237	7725	7368
55°	32276	6085	6020
60°	24151	5700	5416
65°	16590	5727	5130
70°	10638	5536	4968
75°	6424	5138	4754
80°	3806	4537	4905
85°	1856	3931	4547



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1434.3	3.7
10°-20°	5062.3	13.0
20°-30°	7459.6	19.2
30°-40°	7838.8	20.2
40°-50°	5998.1	15.4
50°-60°	3621.9	9.3
60°-70°	2210.2	5.7
70°-80°	1206.4	3.1
80°-90°	431.1	1.1
90°-100°	275.1	0.7
100°-110°	1246.1	3.2
110°-120°	1031.3	2.7
120°-130°	488.1	1.3
130°-140°	247.1	0.6
140°-150°	144.5	0.4
150°-160°	84.7	0.2
160°-170°	44.1	0.1
170°-180°	13.4	0.0
0°-30°	13956.1	35.9
0°-40°	21794.9	56.1
0°-60°	31415.0	80.9
0°-90°	35262.7	90.8
90°-120°	2552.5	6.6
90°-150°	3432.2	8.8
90°-180°	3574.0	9.2
0°-180°	38837.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10986	10986	10986	10986	10986	
5°	11097	11905	13888	15507	16106	###
15°	11313	17620	20593	19216	18764	3217
25°	12089	20450	16440	14884	14517	5650
35°	14643	16376	11977	9974	9391	9289
45°	17923	9345	5517	4855	4651	13542
55°	13254	3169	2512	2328	2321	11712
65°	5314	2006	1848	1581	1500	5445
75°	1415	1248	1144	944	906	1628
85°	211	387	456	416	377	260
90°	8	49	63	72	73	17
95°	62	124	165	210	226	231
105°	1477	1474	1386	1031	931	1404
115°	1030	1016	1024	1031	1021	1041
125°	507	525	537	528	518	477
135°	300	307	315	318	319	237
145°	218	223	228	231	232	139
155°	176	179	182	184	184	82
165°	151	153	154	155	156	43
175°	138	138	139	139	140	13
180°	136	136	136	136	136	



TEST NUMBER: P827188

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10986.4	10986.4	10986.4	10986.4	10986.4
2.5°	11076.4	11189.5	11635.1	12097.8	12210.4
5°	11096.7	11905.1	13888.0	15507.2	16105.6
7.5°	11120.2	13064.5	16679.4	18661.8	19296.4
10°	11165.0	14530.6	19098.1	20521.3	20761.1
12.5°	11220.6	16083.9	20429.0	20377.2	20074.7
15°	11312.9	17620.2	20592.9	19216.3	18764.5
17.5°	11409.9	18920.0	19877.8	17952.8	17559.4
20°	11567.8	19884.8	18765.5	16829.7	16382.6
22.5°	11795.3	20415.3	17599.0	15813.9	15522.3
25°	12088.8	20449.7	16440.5	14884.4	14517.0
27.5°	12482.2	19975.3	15330.1	13973.8	13585.6
30°	13017.4	19067.0	14298.4	12875.6	12394.1
32.5°	13744.3	17759.6	13234.6	11549.9	11010.0
35°	14643.2	16376.4	11977.2	9974.5	9391.2
37.5°	15624.1	14840.6	10451.2	8579.5	8239.8
40°	16679.4	13258.1	8642.6	7274.0	7030.9
42.5°	17502.9	11537.6	6962.6	6044.9	5786.2
45°	17922.7	9344.6	5517.2	4854.8	4650.9
47.5°	17759.2	7253.8	4373.8	3857.5	3796.2
50°	16805.2	5356.1	3501.3	3177.7	3152.2
52.5°	15313.6	3992.2	2892.2	2692.0	2648.1
55°	13254.4	3168.7	2511.5	2327.8	2320.7
57.5°	11128.2	2692.0	2279.7	2137.5	2088.0
60°	8860.3	2400.3	2104.0	1943.4	1843.0
62.5°	6945.2	2196.3	1974.9	1756.8	1663.0
65°	5313.7	2006.0	1847.7	1581.1	1500.5
67.5°	3961.1	1824.6	1692.2	1396.4	1349.3
70°	2886.1	1638.5	1515.1	1241.9	1204.6
72.5°	2056.9	1452.9	1338.0	1096.8	1055.8
75°	1414.8	1247.5	1144.3	944.1	906.0
77.5°	954.5	1037.9	953.5	806.1	790.1
80°	637.4	823.0	771.2	683.1	673.2
82.5°	386.8	597.4	608.7	555.4	528.6
85°	210.6	386.8	456.0	415.5	376.9
87.5°	82.4	214.4	314.2	282.2	265.7
90°	8.0	49.0	63.0	72.0	73.0
92.5°	25.0	60.0	77.0	96.0	102.0
95°	62.0	124.0	165.0	210.0	226.0
97.5°	374.0	402.0	349.0	417.0	441.0
100°	803.0	824.0	639.0	644.0	664.0
102.5°	1258.0	1275.0	1008.0	834.0	804.0
105°	1477.0	1474.0	1386.0	1031.0	931.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1210.0	1213.0	1202.0	1198.0	1166.0
115°	1030.0	1016.0	1024.0	1031.0	1021.0
117.5°	881.0	871.0	879.0	875.0	864.0
120°	741.0	741.0	751.0	737.0	729.0
122.5°	614.0	628.0	635.0	625.0	612.0
125°	507.0	525.0	537.0	528.0	518.0
127.5°	435.0	441.0	455.0	450.0	450.0
130°	374.0	382.0	393.0	395.0	393.0
132.5°	332.0	340.0	350.0	353.0	356.0
135°	300.0	307.0	315.0	318.0	319.0
137.5°	274.0	280.0	286.0	291.0	292.0
140°	252.0	258.0	264.0	268.0	268.0
142.5°	234.0	240.0	245.0	248.0	248.0
145°	218.0	223.0	228.0	231.0	232.0
147.5°	206.0	210.0	215.0	216.0	217.0
150°	195.0	198.0	202.0	204.0	205.0
152.5°	185.0	188.0	192.0	193.0	194.0
155°	176.0	179.0	182.0	184.0	184.0
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°	1491.0	1494.0	1458.0	1284.0	<i>1110.0</i>
110°	1376.0	1389.0	1366.0	1309.0	<i>1230.0</i>



(END OF REPORT)