

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: P827164

Luminaire Tested: **OHBL-30HE-A-UNV-L840-CD-UPL30**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P827164
REPORT IS A COMBINATION OF REPORTS P826275 AND G3-2310-221-4
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-30HE-A-UNV-L840-CD-UPL30
Description: 30000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND AISLE LENS AND 3000 LUMEN UPLIGHT MODULE
Light Source: -
Ballast/Driver: -

Summary

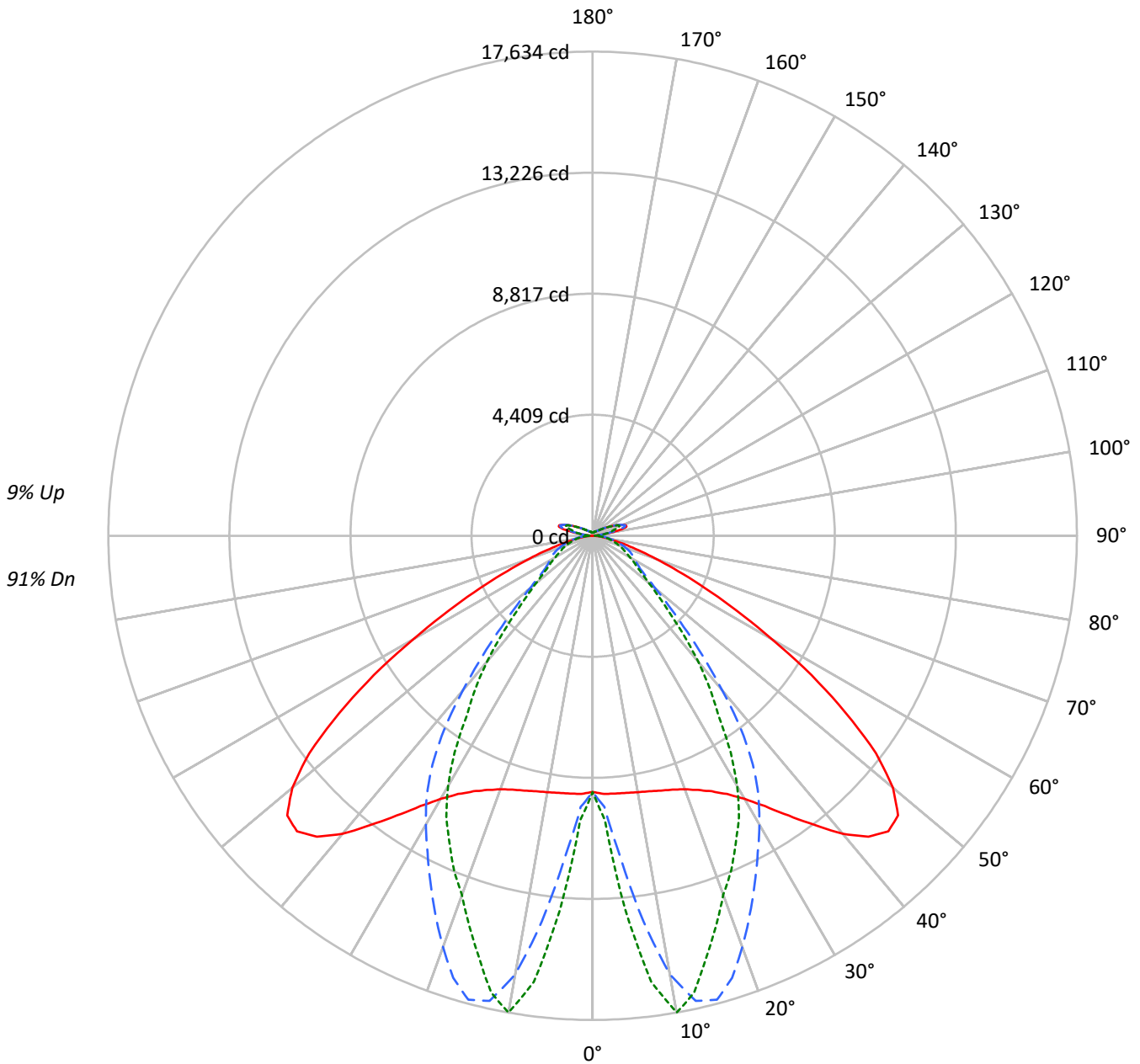
Lumens per Lamp: N/A
Luminaire Lumens: 33006.9 lumens
Efficiency: N/A
Efficacy: 176.5 lumens/watt
Spacing Criteria (0/90/45): 2.18 / 1.37 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')
CIE Type: Direct

Input Watts (W): 187
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: P827164

CATALOG NUMBER: OHBL-30HE-A-UNV-L840-CD-UPL30

Luminous Intensity Polar Plot





TEST NUMBER: P827164

CATALOG NUMBER: OHBL-30HE-A-UNV-L840-CD-UPL30

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	99	99	99	94	94	94	91																			
1	108	104	101	98	105	101	98	95	95	93	90	90	88	86	85	83	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	89	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	39	34	31	29																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14757	14757	14757
5°	14842	18569	21633
10°	14984	25612	28099
15°	15351	27914	25790
20°	15996	25912	23048
25°	17175	23315	21082
30°	19166	21005	18747
35°	22549	18395	14938
40°	27138	14018	11889
45°	31160	9557	8462
50°	31627	6561	6258
55°	27414	5168	5113
60°	20512	4842	4600
65°	14090	4864	4357
70°	9036	4702	4220
75°	5456	4365	4038
80°	3233	3853	4166
85°	1577	3339	3862



TEST NUMBER: P827164

CATALOG NUMBER: OHBL-30HE-A-UNV-L840-CD-UPL30

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1218.2	3.7
10°-20°	4299.7	13.0
20°-30°	6335.8	19.2
30°-40°	6657.9	20.2
40°-50°	5094.6	15.4
50°-60°	3076.3	9.3
60°-70°	1877.2	5.7
70°-80°	1024.6	3.1
80°-90°	366.2	1.1
90°-100°	236.7	0.7
100°-110°	1070.2	3.2
110°-120°	881.1	2.7
120°-130°	415.8	1.3
130°-140°	209.6	0.6
140°-150°	122.5	0.4
150°-160°	71.8	0.2
160°-170°	37.3	0.1
170°-180°	11.4	0.0
0°-30°	11853.7	35.9
0°-40°	18511.6	56.1
0°-60°	26682.5	80.8
0°-90°	29950.5	90.7
90°-120°	2188.0	6.6
90°-150°	2936.0	8.9
90°-180°	3056.0	9.3
0°-180°	33006.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9331	9331	9331	9331	9331	
5°	9425	10112	11796	13171	13679	901
15°	9609	14966	17491	16322	15938	2732
25°	10268	17369	13964	12642	12330	4799
35°	12437	13909	10173	8472	7976	7890
45°	15223	7937	4686	4124	3950	11502
55°	11258	2691	2133	1977	1971	9948
65°	4513	1704	1569	1343	1274	4624
75°	1202	1060	972	802	770	1383
85°	179	328	387	353	320	221
90°	7	41	54	61	61	14
95°	57	115	140	177	190	206
105°	1277	1287	1188	892	785	1206
115°	882	882	881	885	867	884
125°	434	447	459	447	441	406
135°	255	260	266	271	271	201
145°	186	189	194	196	196	118
155°	149	152	154	156	156	70
165°	128	129	130	132	132	37
175°	116	117	117	118	118	11
180°	115	115	115	115	115	



TEST NUMBER: P827164

CATALOG NUMBER: OHBL-30HE-A-UNV-L840-CD-UPL30

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9331.4	9331.4	9331.4	9331.4	9331.4
2.5°	9407.8	9503.8	9882.4	10275.3	10370.9
5°	9425.0	10111.6	11795.9	13171.1	13679.3
7.5°	9445.0	11096.4	14166.7	15850.5	16389.5
10°	9483.0	12341.6	16221.0	17429.9	17633.6
12.5°	9530.2	13660.9	17351.5	17307.4	17050.5
15°	9608.7	14965.8	17490.7	16321.5	15937.7
17.5°	9691.1	16069.8	16883.3	15248.3	14914.2
20°	9825.1	16889.3	15938.5	14294.4	13914.6
22.5°	10018.4	17339.9	14947.8	13431.6	13184.0
25°	10267.7	17369.1	13963.8	12642.2	12330.0
27.5°	10601.8	16966.1	13020.7	11868.7	11539.0
30°	11056.4	16194.6	12144.4	10935.9	10527.0
32.5°	11673.8	15084.2	11240.9	9809.9	9351.4
35°	12437.3	13909.4	10172.9	8471.9	7976.5
37.5°	13270.4	12604.9	8876.8	7287.0	6998.5
40°	14166.7	11260.9	7340.6	6178.2	5971.8
42.5°	14866.2	9799.5	5913.7	5134.3	4914.6
45°	15222.7	7936.9	4686.1	4123.5	3950.2
47.5°	15083.8	6161.0	3714.9	3276.4	3224.4
50°	14273.5	4549.2	2973.9	2699.0	2677.4
52.5°	13006.7	3390.8	2456.5	2286.4	2249.2
55°	11257.7	2691.4	2133.2	1977.1	1971.1
57.5°	9451.8	2286.4	1936.3	1815.5	1773.4
60°	7525.5	2038.7	1787.0	1650.6	1565.4
62.5°	5898.9	1865.5	1677.4	1492.1	1412.5
65°	4513.2	1703.8	1569.4	1342.9	1274.5
67.5°	3364.4	1549.8	1437.3	1186.0	1146.0
70°	2451.3	1391.7	1286.9	1054.8	1023.2
72.5°	1747.0	1234.0	1136.4	931.5	896.7
75°	1201.6	1059.6	972.0	801.9	769.5
77.5°	810.7	881.5	809.9	684.6	671.0
80°	541.4	699.1	655.0	580.2	571.8
82.5°	328.5	507.4	517.0	471.8	449.0
85°	178.9	328.5	387.3	352.9	320.1
87.5°	70.0	182.1	266.9	239.7	225.7
90°	7.0	41.0	54.0	61.0	61.0
92.5°	21.0	51.0	66.0	81.0	83.0
95°	57.0	115.0	140.0	177.0	190.0
97.5°	348.0	346.0	300.0	349.0	388.0
100°	687.0	726.0	541.0	550.0	555.0
102.5°	1084.0	1104.0	862.0	714.0	684.0
105°	1277.0	1287.0	1188.0	892.0	785.0



TEST NUMBER: P827164

CATALOG NUMBER: OHBL-30HE-A-UNV-L840-CD-UPL30

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1024.0	1032.0	1033.0	1020.0	996.0
115°	882.0	882.0	881.0	885.0	867.0
117.5°	744.0	749.0	751.0	743.0	735.0
120°	626.0	635.0	633.0	627.0	619.0
122.5°	523.0	538.0	543.0	532.0	523.0
125°	434.0	447.0	459.0	447.0	441.0
127.5°	368.0	377.0	386.0	385.0	380.0
130°	317.0	325.0	335.0	337.0	336.0
132.5°	282.0	289.0	296.0	299.0	298.0
135°	255.0	260.0	266.0	271.0	271.0
137.5°	231.0	238.0	243.0	247.0	247.0
140°	214.0	219.0	224.0	226.0	227.0
142.5°	199.0	203.0	208.0	210.0	211.0
145°	186.0	189.0	194.0	196.0	196.0
147.5°	174.0	178.0	182.0	184.0	184.0
150°	165.0	168.0	172.0	173.0	174.0
152.5°	157.0	159.0	162.0	164.0	164.0
155°	149.0	152.0	154.0	156.0	156.0
157.5°	143.0	145.0	147.0	148.0	149.0
160°	138.0	139.0	141.0	142.0	143.0
162.5°	132.0	134.0	135.0	136.0	137.0
165°	128.0	129.0	130.0	132.0	132.0
167.5°	124.0	125.0	126.0	127.0	127.0
170°	121.0	122.0	123.0	123.0	123.0
172.5°	118.0	119.0	120.0	120.0	120.0
175°	116.0	117.0	117.0	118.0	118.0
177.5°	115.0	116.0	116.0	116.0	117.0
180°	115.0	115.0	115.0	115.0	115.0



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	1276.0	1294.0	1247.0	1092.0	952.0
110°	1170.0	1191.0	1166.0	1115.0	1045.0



(END OF REPORT)