

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: P827169

Luminaire Tested: **OHBL-30HE-N-UNV-L840-CD-UPL15**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P827169
REPORT IS A COMBINATION OF REPORTS P826122 AND G3-2310-221-10
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-30HE-N-UNV-L840-CD-UPL15
Description: 30000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND NARROW LENS AND 1500 LUMEN UPLIGHT MODULE
Light Source: -
Ballast/Driver: -

Summary

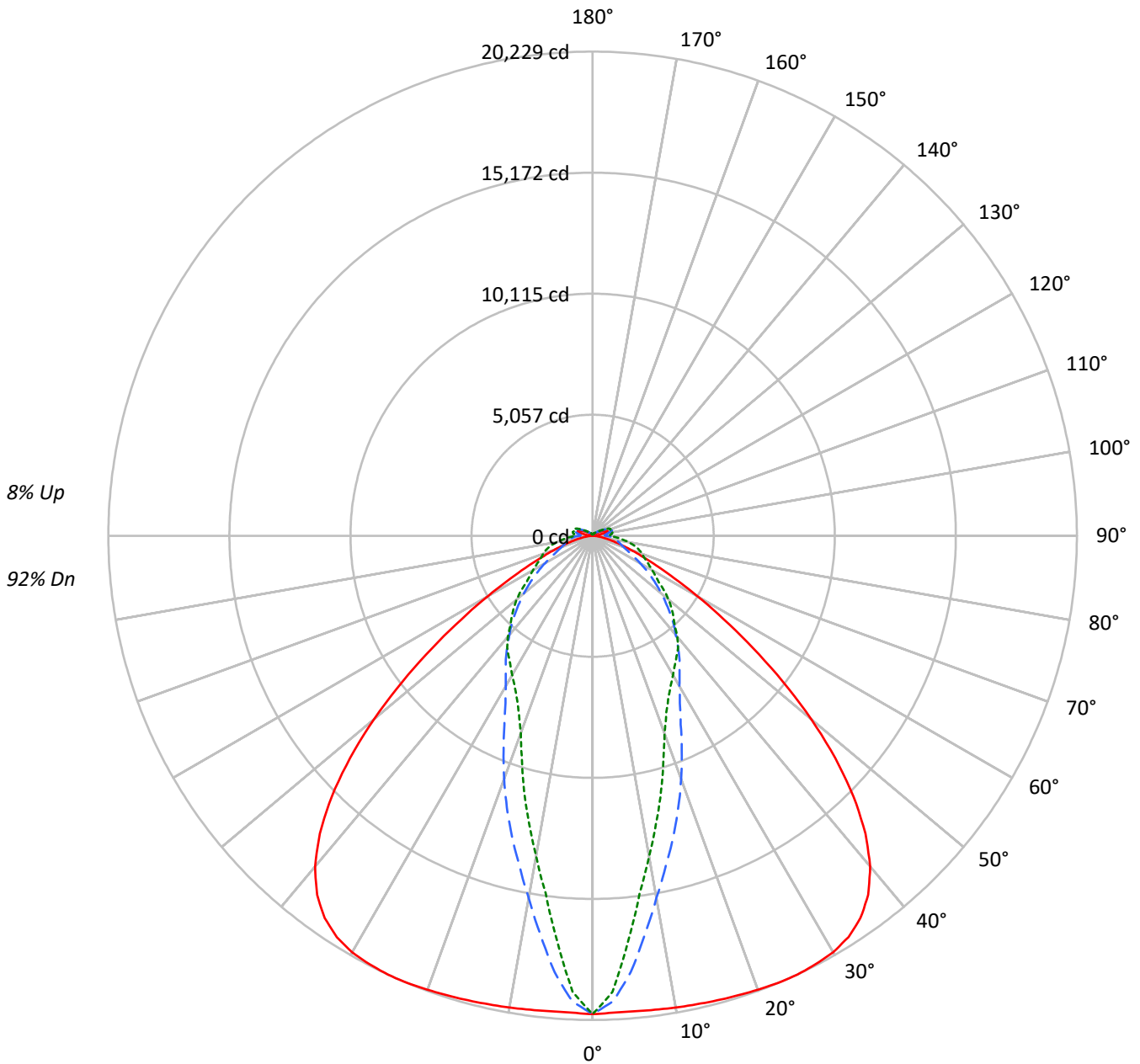
Lumens per Lamp: N/A
Luminaire Lumens: 31013.2 lumens
Efficiency: N/A
Efficacy: 178.1 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')
CIE Type: Direct

Input Watts (W): 174.1
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	107	107	107	100	100	100	95	95	95	92																			
1	108	103	99	96	104	100	97	93	95	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	74	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	46	41	50	44	40	48	43	39	37																			
8	64	51	43	38	62	50	43	38	48	42	37	46	41	36	45	40	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°	31604	31604	31604
5°	31407	28794	26889
10°	31627	24265	21667
15°	32106	20762	17872
20°	32861	17563	14530
25°	33838	14545	12800
30°	34832	12537	11960
35°	35363	11432	11466
40°	34547	10333	10954
45°	31562	9344	10222
50°	26415	8262	9683
55°	19879	7244	8712
60°	13764	6220	8456
65°	9115	5365	8427
70°	6092	5045	9060
75°	4094	5218	10040
80°	2669	5807	10988
85°	1392	7329	13103



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1682.2	5.4
10°-20°	3957.3	12.8
20°-30°	4960.4	16.0
30°-40°	5263.6	17.0
40°-50°	4759.1	15.3
50°-60°	3450.7	11.1
60°-70°	2165.5	7.0
70°-80°	1433.0	4.6
80°-90°	829.4	2.7
90°-100°	545.6	1.8
100°-110°	780.7	2.5
110°-120°	603.9	1.9
120°-130°	290.6	0.9
130°-140°	142.0	0.5
140°-150°	81.1	0.3
150°-160°	44.2	0.1
160°-170°	18.3	0.1
170°-180°	5.6	0.0
0°-30°	10600.0	34.2
0°-40°	15863.6	51.2
0°-60°	24073.4	77.6
0°-90°	28501.3	91.9
90°-120°	1930.2	6.2
90°-150°	2443.9	7.9
90°-180°	2512.0	8.1
0°-180°	31013.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	19984	19984	19984	19984	19984	
5°	19944	19432	18291	17443	17003	###
15°	20096	16380	13009	11570	11045	5699
25°	20229	12665	8711	7731	7486	9346
35°	19504	8420	6322	6124	6122	12125
45°	15419	5333	4582	4692	4772	11746
55°	8163	3306	2990	3243	3359	7376
65°	2920	1917	1731	2218	2465	3038
75°	902	1033	1162	1805	1913	1005
85°	158	428	850	1183	1086	189
90°	3	201	522	732	743	12
95°	36	198	541	732	781	106
105°	648	708	848	794	775	614
115°	457	495	653	704	701	461
125°	234	253	337	364	361	219
135°	144	152	180	208	209	114
145°	114	118	124	141	139	72
155°	96	102	106	108	106	41
165°	63	63	64	64	64	18
175°	57	57	57	58	58	6
180°	57	57	57	57	57	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	19983.8	19983.8	19983.8	19983.8	19983.8
2.5°	19941.9	19827.8	19472.1	19255.3	19072.7
5°	19943.8	19432.2	18291.0	17442.8	17003.4
7.5°	19972.3	18835.0	16779.0	15540.8	15057.7
10°	20016.1	18095.1	15367.7	14047.8	13597.0
12.5°	20048.4	17262.1	14125.8	12769.7	12275.2
15°	20096.0	16379.6	13009.3	11569.5	11044.6
17.5°	20139.7	15548.4	11906.2	10401.7	9817.9
20°	20183.5	14652.6	10803.1	9253.0	8771.8
22.5°	20225.3	13707.3	9726.6	8361.0	8031.9
25°	20229.1	12665.1	8710.9	7731.4	7486.1
27.5°	20179.7	11584.8	7887.4	7204.6	7052.4
30°	20094.1	10536.8	7248.3	6824.2	6715.8
32.5°	19881.1	9467.9	6753.8	6457.1	6394.3
35°	19504.5	8419.9	6322.1	6124.3	6122.4
37.5°	18911.1	7489.9	5854.2	5820.0	5861.8
40°	18034.3	6675.8	5411.0	5502.3	5502.3
42.5°	16864.6	5968.3	5009.7	5102.9	5078.2
45°	15419.1	5333.1	4581.8	4692.1	4772.0
47.5°	13743.5	4773.9	4144.3	4357.4	4467.7
50°	11921.4	4241.3	3744.9	4016.9	4142.4
52.5°	10011.8	3748.7	3355.0	3667.0	3767.8
55°	8163.2	3305.6	2989.9	3242.8	3358.8
57.5°	6489.4	2883.4	2632.3	2871.9	3111.6
60°	5049.7	2520.1	2295.7	2638.0	2877.6
62.5°	3857.1	2196.7	1979.9	2419.3	2658.9
65°	2919.5	1917.2	1730.8	2217.7	2464.9
67.5°	2200.6	1675.6	1536.8	2071.2	2312.8
70°	1652.8	1441.7	1380.8	1979.9	2196.7
72.5°	1221.1	1226.8	1257.2	1900.0	2065.5
75°	901.5	1032.8	1162.1	1804.9	1913.4
77.5°	644.8	855.9	1076.5	1690.8	1728.9
80°	447.0	698.0	987.1	1540.6	1508.2
82.5°	279.6	559.2	907.2	1375.1	1285.7
85°	157.9	427.9	850.2	1183.0	1086.0
87.5°	70.4	319.5	743.7	922.4	861.6
90°	3.0	200.8	521.6	732.2	742.9
92.5°	13.8	176.4	500.6	699.3	728.3
95°	35.6	197.5	540.6	731.6	781.2
97.5°	175.5	297.3	611.0	782.8	823.6
100°	348.4	462.9	673.7	818.0	844.0
102.5°	555.3	615.3	731.3	806.4	815.6
105°	648.2	707.7	847.7	794.4	774.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	528.0	580.7	744.7	789.5	781.0
115°	456.9	495.0	653.0	704.3	701.0
117.5°	396.8	423.4	562.4	607.9	607.8
120°	334.8	361.6	476.8	514.7	513.7
122.5°	280.8	304.0	404.1	433.5	430.6
125°	233.8	253.4	337.4	363.9	361.0
127.5°	200.9	211.7	282.5	309.1	305.2
130°	176.9	185.7	237.4	265.0	265.0
132.5°	158.0	165.8	205.1	232.7	233.7
135°	144.0	151.8	179.5	208.2	209.2
137.5°	134.0	141.7	160.9	186.7	187.7
140°	124.0	130.8	145.2	169.1	170.1
142.5°	118.9	122.8	132.4	153.5	153.5
145°	113.8	117.7	123.5	140.7	138.8
147.5°	108.8	114.6	118.5	128.0	127.1
150°	103.8	111.5	112.5	119.2	117.3
152.5°	99.8	106.5	108.5	112.3	111.4
155°	95.8	102.5	106.4	108.3	105.5
157.5°	70.0	71.0	72.0	73.0	73.0
160°	67.0	68.0	69.0	69.0	70.0
162.5°	65.0	66.0	66.0	67.0	67.0
165°	63.0	63.0	64.0	64.0	64.0
167.5°	61.0	61.0	62.0	62.0	63.0
170°	59.0	60.0	60.0	60.0	61.0
172.5°	58.0	58.0	59.0	59.0	59.0
175°	57.0	57.0	57.0	58.0	58.0
177.5°	56.0	57.0	57.0	57.0	57.0
180°	57.0	57.0	57.0	57.0	57.0



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	648.2	712.0	876.1	826.7	767.0
110°	601.1	659.4	827.4	846.7	798.1



(END OF REPORT)