

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: P#

Luminaire Tested: **HBLED-LD5-12HE-N-CLWG-UNV-L735-ED1-U**

Issue Date: 3/3/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33344)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-12HE-N-CLWG-UNV-L735-ED1-U
Description: METALUX HIGH BAY LINEAR LED
NARROW DISTRIBUTION WITH CLEAR LENS, WIREGUARD & DOORFRAME
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

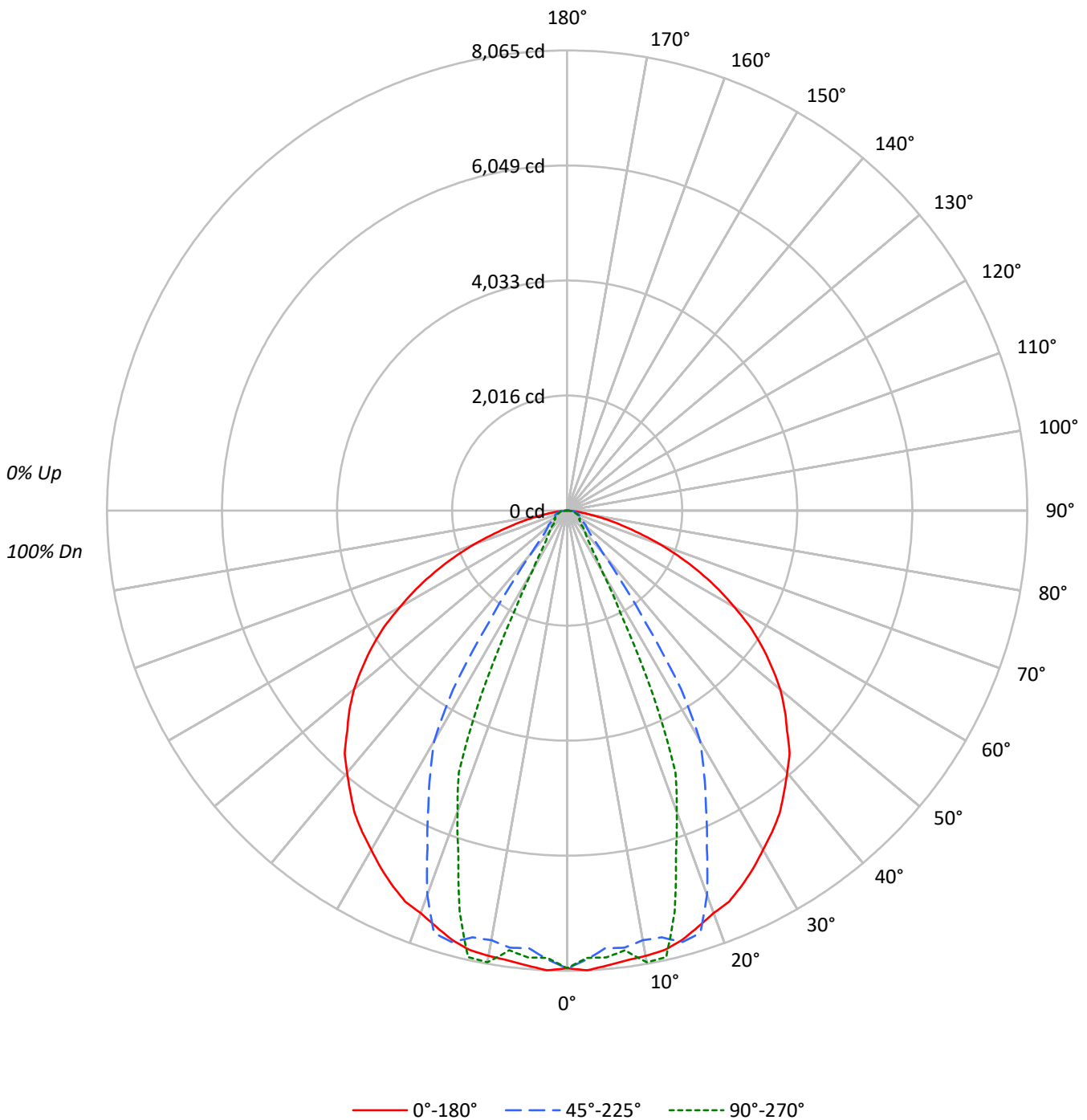
Lumens per Lamp: N/A
Luminaire Lumens: 10783.0 lumens
Efficiency: N/A
Efficacy: 148.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.81 / 0.91
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 72.6
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	111	108	104	101	109	105	103	100	101	99	97	98	96	94	94	92	91	89				89
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	84	81	79				79
3	97	89	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71				71
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64				64
5	85	74	67	62	83	73	66	61	71	65	61	69	64	60	68	63	59	58				58
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53				53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48				48
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44				44
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	52	46	43	41				41
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	48	43	40	38				38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10792	10792	10792
5°	10810	10398	10617
10°	10826	10448	10984
15°	10850	10906	10137
20°	10747	10258	8046
25°	10762	8552	5256
30°	10666	7244	1888
35°	10655	3925	1062
40°	10534	1711	832
45°	10371	1057	652
50°	10210	921	616
55°	9808	799	602
60°	9100	716	647
65°	8180	809	707
70°	6860	870	729
75°	5128	992	790
80°	3221	1152	900
85°	2144	1443	1318



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	743.4	6.9
10°-20°	2099.3	19.5
20°-30°	2570.6	23.8
30°-40°	2018.7	18.7
40°-50°	1497.0	13.9
50°-60°	911.4	8.5
60°-70°	545.9	5.1
70°-80°	299.5	2.8
80°-90°	97.2	0.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	5413.3	50.2
0°-40°	7432.1	68.9
0°-60°	9840.4	91.3
0°-90°	10783.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10783.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8021	8021	8021	8021	8021	
5°	8004	7786	7699	7784	7861	761
15°	7789	7576	7830	7513	7277	2193
25°	7250	7272	5760	4518	3540	3337
35°	6487	5901	2389	800	646	4048
45°	5450	3914	556	421	343	4215
55°	4181	1078	341	288	257	3721
65°	2569	318	254	239	222	2538
75°	986	201	191	166	152	1068
85°	139	109	94	86	85	169
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8020.9	8020.9	8020.9	8020.9	8020.9
2.5°	8064.7	7956.1	7872.8	7826.3	7845.3
5°	8003.6	7785.8	7698.8	7783.6	7860.9
7.5°	7950.7	7626.9	7725.2	7732.8	7773.4
10°	7923.6	7611.7	7647.4	7815.5	8039.9
12.5°	7888.0	7646.9	7659.3	7888.5	8015.0
15°	7789.0	7575.5	7829.6	7513.3	7277.1
17.5°	7644.7	7409.0	7758.2	6656.0	6334.9
20°	7505.8	7227.9	7164.1	5928.9	5619.2
22.5°	7416.0	7200.4	6399.8	5283.0	4962.9
25°	7249.5	7272.3	5760.3	4518.1	3540.2
27.5°	7066.3	7103.1	5194.9	3013.1	2028.2
30°	6865.2	6907.4	4662.9	1780.6	1215.2
32.5°	6683.0	6445.2	3724.0	1110.9	844.9
35°	6486.8	5900.8	2389.3	799.5	646.5
37.5°	6239.8	5328.9	1512.5	632.5	542.7
40°	5997.6	4815.4	974.1	540.0	473.5
42.5°	5771.1	4392.1	708.7	471.9	427.6
45°	5450.5	3913.7	555.7	421.1	342.7
47.5°	5173.2	3352.6	486.0	356.2	295.7
50°	4877.5	2563.4	440.0	316.8	294.1
52.5°	4526.7	1676.8	406.5	303.3	274.6
55°	4181.3	1078.4	340.6	288.1	256.8
57.5°	3808.3	683.8	300.6	279.5	268.1
60°	3381.8	461.1	266.0	264.9	240.6
62.5°	2987.2	378.9	256.8	254.1	227.6
65°	2569.3	317.9	254.1	238.9	222.2
67.5°	2152.0	272.4	229.7	218.4	203.8
70°	1743.9	249.2	221.1	216.2	185.4
72.5°	1324.4	205.4	196.2	183.3	154.1
75°	986.5	200.6	190.8	166.0	151.9
77.5°	667.6	184.9	173.5	148.7	137.3
80°	415.7	169.7	148.7	130.3	116.2
82.5°	247.0	141.6	122.2	107.6	98.4
85°	138.9	109.2	93.5	86.0	85.4
87.5°	29.7	39.5	31.4	29.7	21.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)