

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-LD5-30HE-N-CLWG-UNV-L740-ED2-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-LD5-30HE-N-CLWG-UNV-L740-ED2-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

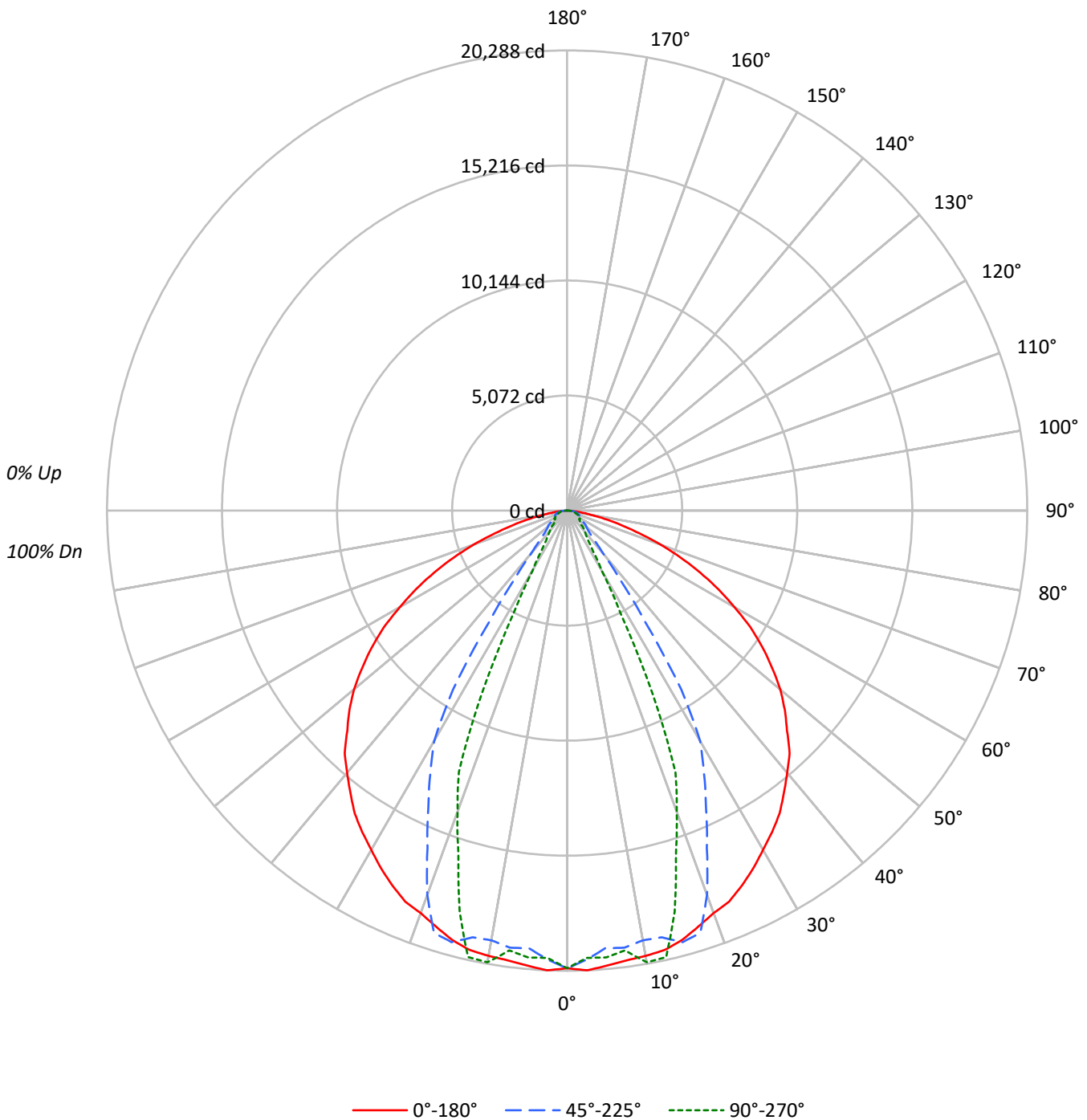
Lumens per Lamp: N/A
Luminaire Lumens: 27126.0 lumens
Efficiency: N/A
Efficacy: 150.7 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.81 / 0.91
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 180
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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	111	108	104	101	109	105	103	100	101	99	97		98	96	94		94	92	91	89
2	104	97	92	88	101	96	91	87	92	88	85		89	86	83		86	84	81	79
3	97	89	82	77	95	87	81	76	84	79	75		82	77	74		79	76	73	71
4	90	81	74	68	88	80	73	68	77	72	67		75	70	66		73	69	65	64
5	85	74	67	62	83	73	66	61	71	65	61		69	64	60		68	63	59	58
6	79	68	61	56	78	68	61	56	66	60	55		64	59	55		63	58	54	53
7	75	63	56	51	73	63	56	51	61	55	50		60	54	50		59	54	50	48
8	70	59	52	47	69	58	51	47	57	51	46		56	50	46		55	50	46	44
9	66	55	48	43	65	54	48	43	53	47	43		52	47	43		52	46	43	41
10	63	52	45	40	62	51	45	40	50	44	40		49	44	40		48	43	40	38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	27149	27149	27149
5°	27194	26158	26709
10°	27233	26284	27633
15°	27294	27436	25500
20°	27036	25805	20240
25°	27075	21513	13221
30°	26832	18224	4749
35°	26804	9873	2671
40°	26500	4304	2092
45°	26090	2660	1641
50°	25684	2317	1549
55°	24674	2010	1515
60°	22893	1801	1628
65°	20578	2035	1779
70°	17258	2188	1835
75°	12902	2495	1986
80°	8102	2898	2266
85°	5395	3633	3318



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1870.2	6.9
10°-20°	5281.0	19.5
20°-30°	6466.7	23.8
30°-40°	5078.4	18.7
40°-50°	3765.9	13.9
50°-60°	2292.6	8.5
60°-70°	1373.3	5.1
70°-80°	753.5	2.8
80°-90°	244.4	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°	13618.0	50.2
0°-40°	18696.3	68.9
0°-60°	24754.8	91.3
0°-90°	27126.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	27126.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	20178	20178	20178	20178	20178	
5°	20134	19586	19367	19581	19775	###
15°	19594	19057	19696	18901	18306	5517
25°	18237	18294	14491	11366	8906	8395
35°	16318	14844	6011	2011	1626	10182
45°	13712	9845	1398	1059	862	10603
55°	10519	2713	857	725	646	9360
65°	6463	800	639	601	559	6386
75°	2482	504	480	418	382	2687
85°	350	275	235	216	215	426
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	20177.7	20177.7	20177.7	20177.7	20177.7
2.5°	20287.8	20014.5	19805.1	19688.1	19735.7
5°	20134.2	19586.1	19367.2	19580.7	19775.2
7.5°	20000.9	19186.3	19433.8	19452.9	19554.9
10°	19932.9	19148.3	19238.0	19660.9	20225.3
12.5°	19843.2	19236.7	19267.9	19844.5	20162.7
15°	19594.3	19057.1	19696.3	18900.8	18306.5
17.5°	19231.2	18638.3	19516.8	16744.0	15936.3
20°	18881.7	18182.8	18022.3	14915.0	14135.8
22.5°	18656.0	18113.4	16099.4	13290.0	12484.9
25°	18237.2	18294.3	14490.7	11365.8	8905.8
27.5°	17776.2	17868.6	13068.3	7579.9	5102.2
30°	17270.3	17376.4	11730.2	4479.4	3057.0
32.5°	16812.0	16213.7	9368.1	2794.5	2125.5
35°	16318.4	14844.3	6010.6	2011.2	1626.4
37.5°	15696.9	13405.5	3804.9	1591.0	1365.3
40°	15087.7	12113.7	2450.5	1358.5	1191.2
42.5°	14517.9	11048.9	1782.8	1187.2	1075.7
45°	13711.5	9845.4	1397.9	1059.3	862.2
47.5°	13013.9	8433.9	1222.5	896.2	743.8
50°	12270.1	6448.5	1106.9	796.9	739.8
52.5°	11387.5	4218.3	1022.6	762.9	690.8
55°	10518.6	2712.9	856.7	724.8	645.9
57.5°	9580.2	1720.2	756.1	703.1	674.5
60°	8507.3	1160.0	669.1	666.3	605.1
62.5°	7514.6	953.3	645.9	639.1	572.5
65°	6463.4	799.6	639.1	601.1	558.9
67.5°	5413.6	685.4	577.9	549.4	512.7
70°	4386.9	626.9	556.2	543.9	466.4
72.5°	3331.7	516.7	493.6	461.0	387.6
75°	2481.8	504.5	480.0	417.5	382.1
77.5°	1679.4	465.1	436.5	374.0	345.4
80°	1045.7	427.0	374.0	327.7	292.4
82.5°	621.5	356.3	307.3	270.6	247.5
85°	349.5	274.7	235.3	216.2	214.9
87.5°	74.8	99.3	78.9	74.8	53.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)