

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-W-AWG-UNV-L835-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 (P23764)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-30HE-W-AWG-UNV-L835-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

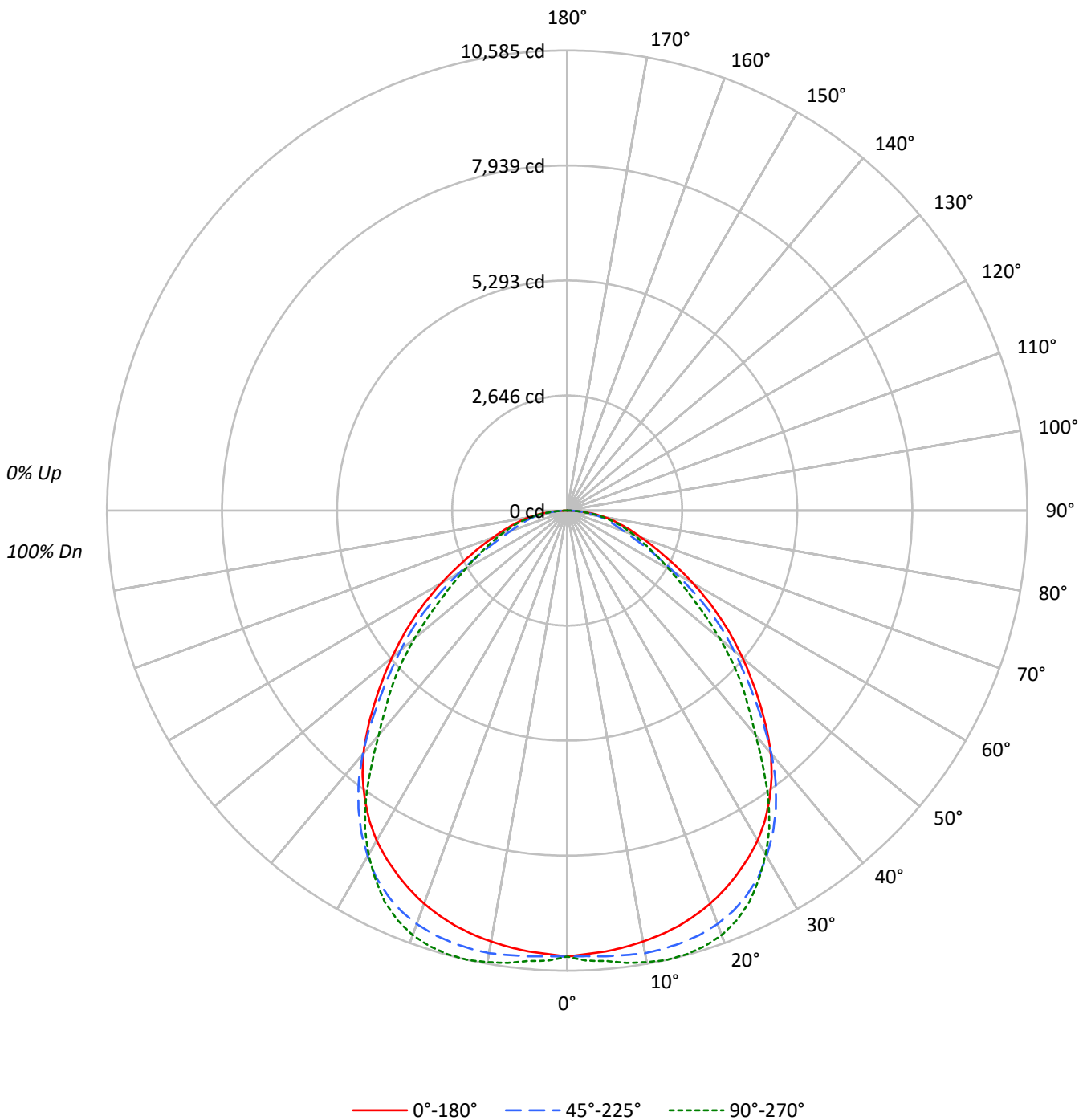
Lumens per Lamp: N/A
Luminaire Lumens: 25430.0 lumens
Efficiency: N/A
Efficacy: 141.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 180
Input Voltage (V): NR
Input Current (Ain): 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	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86				86
2	101	93	87	82	98	91	85	81	88	83	79	85	81	77	82	78	75	73				73
3	92	83	75	69	90	81	74	69	78	72	67	76	70	66	73	69	65	63				63
4	85	74	66	60	83	73	65	59	70	64	58	68	62	58	66	61	57	55				55
5	79	67	58	52	77	66	58	52	63	56	51	62	55	51	60	54	50	48				48
6	73	60	52	46	71	59	51	46	58	51	45	56	50	45	54	49	44	42				42
7	68	55	47	41	66	54	46	41	53	46	40	51	45	40	50	44	40	38				38
8	63	50	42	37	62	50	42	37	48	41	36	47	41	36	46	40	36	34				34
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31				31
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28				28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13802	13802	13802
5°	13749	13903	14044
10°	13753	14126	14410
15°	13779	14322	14725
20°	13776	14486	14875
25°	13717	14505	14740
30°	13615	14263	14188
35°	13326	13747	13247
40°	12805	12842	11843
45°	11919	11578	10826
50°	11017	10469	9593
55°	10085	9278	8278
60°	8993	7701	7310
65°	7887	6338	6717
70°	7121	5459	6396
75°	6806	5351	6378
80°	6861	5665	6223
85°	6078	5189	5431



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	985.4	3.9
10°-20°	2904.0	11.4
20°-30°	4454.3	17.5
30°-40°	5123.1	20.1
40°-50°	4672.6	18.4
50°-60°	3502.1	13.8
60°-70°	2154.3	8.5
70°-80°	1234.5	4.9
80°-90°	399.7	1.6
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°	8343.7	32.8
0°-40°	13466.8	53.0
0°-60°	21641.5	85.1
0°-90°	25430.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	25430.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10258	10258	10258	10258	10258	
5°	10180	10283	10294	10379	10398	968
15°	9892	10112	10282	10502	10571	2792
25°	9239	9505	9770	9921	9929	4257
35°	8113	8272	8370	8232	8065	5060
45°	6264	6400	6085	5771	5690	4834
55°	4299	4140	3955	3606	3529	3841
65°	2477	2216	1991	2052	2110	2491
75°	1309	1173	1029	1178	1227	1400
85°	394	372	336	354	352	439
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10258.3	10258.3	10258.3	10258.3	10258.3
2.5°	10209.9	10283.1	10259.6	10319.7	10364.2
5°	10179.8	10283.1	10293.6	10378.6	10398.2
7.5°	10128.8	10263.5	10310.6	10461.0	10495.0
10°	10066.0	10228.2	10339.3	10501.5	10547.3
12.5°	9990.1	10178.5	10319.7	10519.8	10585.2
15°	9892.0	10111.8	10281.8	10501.5	10570.9
17.5°	9767.8	10022.8	10221.6	10437.4	10509.4
20°	9621.3	9890.7	10117.0	10338.0	10389.0
22.5°	9444.7	9715.5	9973.1	10171.9	10199.4
25°	9239.4	9504.9	9770.4	9920.8	9928.6
27.5°	9015.7	9262.9	9511.4	9592.5	9557.2
30°	8763.3	8984.3	9180.5	9197.5	9132.1
32.5°	8463.7	8662.6	8802.5	8765.9	8656.0
35°	8113.2	8271.5	8369.6	8232.2	8064.8
37.5°	7728.7	7847.7	7880.4	7582.2	7391.2
40°	7290.5	7392.5	7311.4	6896.8	6742.5
42.5°	6785.6	6903.4	6695.4	6286.0	6191.8
45°	6263.8	6399.8	6084.6	5770.7	5689.6
47.5°	5752.4	5876.6	5519.5	5267.1	5146.8
50°	5263.2	5316.8	5001.6	4716.5	4583.1
52.5°	4781.9	4728.2	4504.6	4150.1	4032.4
55°	4299.2	4139.7	3955.2	3606.0	3528.8
57.5°	3815.3	3592.9	3391.5	3123.4	3093.3
60°	3341.8	3068.5	2861.8	2702.2	2716.6
62.5°	2890.6	2612.0	2390.9	2339.9	2394.9
65°	2477.3	2215.7	1990.7	2052.2	2109.7
67.5°	2133.3	1882.1	1653.2	1810.2	1856.0
70°	1810.2	1607.5	1387.7	1590.5	1625.8
72.5°	1552.5	1379.9	1188.9	1386.4	1416.5
75°	1309.3	1173.2	1029.4	1178.5	1226.9
77.5°	1097.4	984.9	886.8	974.4	1026.7
80°	885.5	790.0	731.1	770.4	803.1
82.5°	648.7	587.3	544.1	561.1	566.3
85°	393.7	371.5	336.1	354.5	351.8
87.5°	129.5	147.8	155.6	140.0	132.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)