

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-CLWG-UNV-L750-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 (P33385)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-30HE-W-CLWG-UNV-L750-ED2-U
Description: METALUX HIGH BAY LINEAR LED
WIDE DISTRIBUTION WITH CLEAR LENS, WIREGUARD & DOORFRAME
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30120.0 lumens
Efficiency: N/A
Efficacy: 167.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.3 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

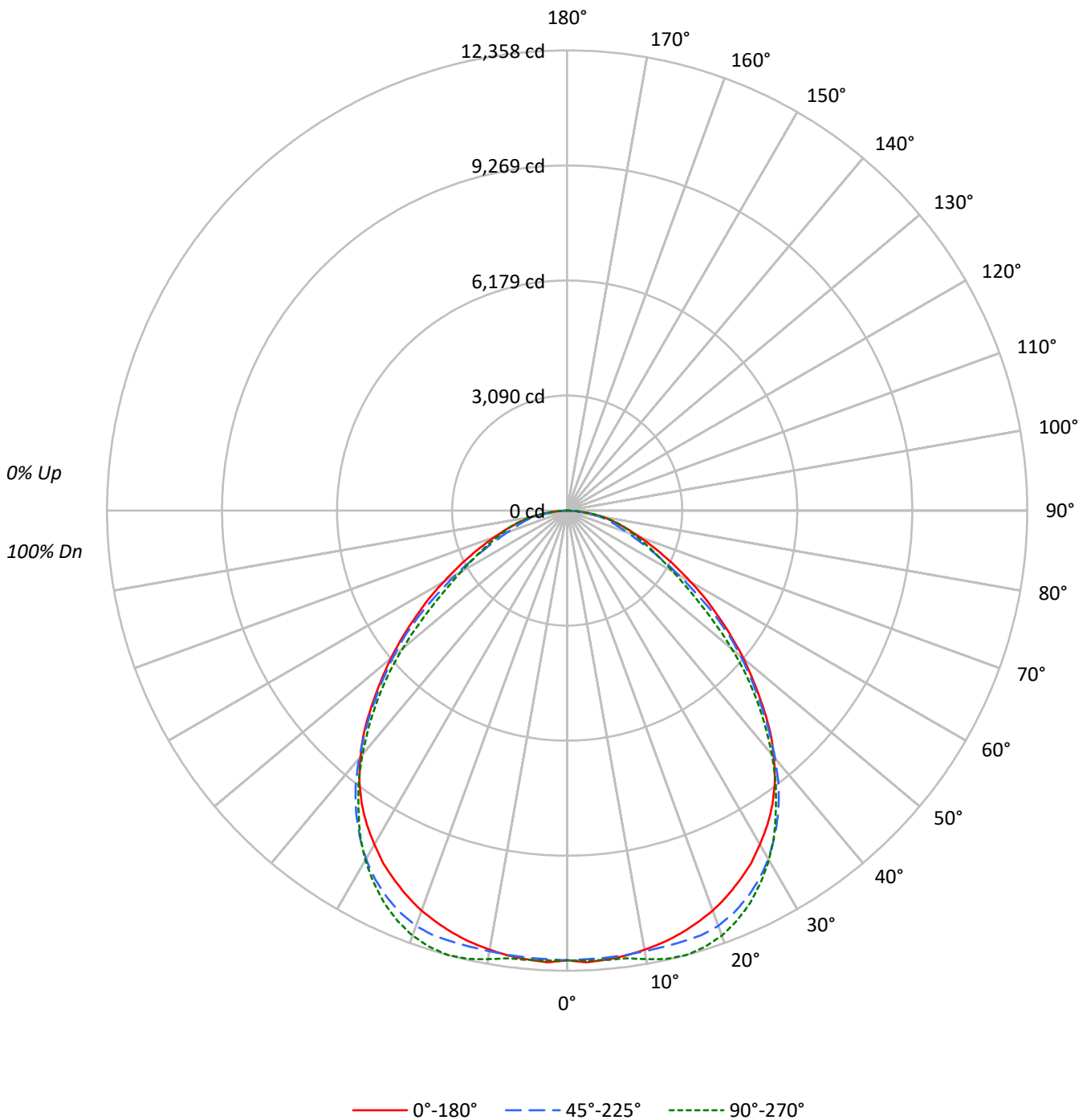
Input Watts (W): 180
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	92	83	75	69	90	81	74	68	78	72	67	76	70	66	73	69	65	63
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57	55
5	79	67	58	52	77	65	57	52	63	56	51	61	55	50	60	54	50	48
6	73	60	52	46	71	59	51	45	58	50	45	56	50	45	54	49	44	42
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	32	31
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16250	16250	16250
5°	16346	16278	16358
10°	16360	16415	16709
15°	16380	16689	17214
20°	16369	16994	17391
25°	16269	17009	17259
30°	16082	16784	16837
35°	15795	16240	16046
40°	15172	15265	15025
45°	14137	13989	13704
50°	12943	12735	12083
55°	11626	11195	10216
60°	10311	9263	8819
65°	9084	7696	8004
70°	8125	6679	7622
75°	7611	6494	7708
80°	7410	6565	7338
85°	5916	5193	5386



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1150.5	3.8
10°-20°	3388.8	11.3
20°-30°	5213.3	17.3
30°-40°	6084.2	20.2
40°-50°	5653.8	18.8
50°-60°	4190.8	13.9
60°-70°	2561.9	8.5
70°-80°	1459.3	4.8
80°-90°	417.4	1.4
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°	9752.6	32.4
0°-40°	15836.8	52.6
0°-60°	25681.5	85.3
0°-90°	30120.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	30120.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12077	12077	12077	12077	12077	
5°	12102	12046	12052	12043	12112	###
15°	11760	11753	11981	12217	12358	3319
25°	10959	11043	11457	11554	11626	5048
35°	9616	9691	9887	9806	9769	5992
45°	7430	7473	7352	7236	7202	5725
55°	4956	4832	4772	4433	4355	4448
65°	2853	2592	2417	2483	2514	2856
75°	1464	1374	1249	1424	1483	1567
85°	383	374	336	349	349	442
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12077.3	12077.3	12077.3	12077.3	12077.3
2.5°	12142.7	12074.1	12061.7	12033.6	12095.9
5°	12102.2	12046.1	12052.3	12043.0	12111.5
7.5°	12055.4	12014.9	12039.9	12036.8	12127.1
10°	11974.5	11952.6	12014.9	12083.5	12229.9
12.5°	11884.1	11862.3	11999.4	12173.8	12332.7
15°	11759.5	11753.3	11980.7	12217.4	12357.6
17.5°	11603.8	11613.1	11958.9	12161.4	12286.0
20°	11432.4	11448.0	11868.5	12033.6	12145.8
22.5°	11211.3	11264.2	11694.1	11831.2	11918.4
25°	10958.9	11043.0	11457.3	11553.9	11625.6
27.5°	10687.9	10772.0	11164.5	11214.4	11254.9
30°	10351.5	10469.9	10803.2	10809.4	10837.4
32.5°	10008.8	10114.7	10370.2	10342.1	10348.4
35°	9616.3	9691.1	9887.3	9806.3	9769.0
37.5°	9164.6	9205.1	9329.7	9208.2	9202.0
40°	8638.2	8691.1	8691.1	8522.9	8554.1
42.5°	8077.5	8096.2	8018.3	7859.4	7884.3
45°	7429.5	7473.1	7351.6	7236.4	7202.1
47.5°	6787.8	6831.4	6703.7	6569.8	6510.6
50°	6183.5	6161.7	6083.8	5856.4	5772.3
52.5°	5557.3	5488.8	5457.7	5124.3	5027.8
55°	4956.1	4831.5	4772.3	4432.8	4354.9
57.5°	4398.5	4174.2	4062.1	3797.3	3766.2
60°	3831.6	3579.3	3442.2	3270.9	3277.1
62.5°	3317.6	3052.8	2887.7	2837.9	2859.7
65°	2853.4	2591.8	2417.3	2482.7	2513.9
67.5°	2432.9	2218.0	2021.7	2174.3	2205.5
70°	2065.3	1894.0	1697.7	1922.0	1937.6
72.5°	1760.0	1619.9	1454.8	1666.6	1700.8
75°	1464.1	1373.8	1249.2	1423.6	1482.8
77.5°	1205.5	1133.9	1062.2	1168.2	1233.6
80°	956.3	884.7	847.3	903.4	947.0
82.5°	676.0	629.3	591.9	632.4	654.2
85°	383.2	373.8	336.4	348.9	348.9
87.5°	87.2	99.7	112.1	102.8	87.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)