

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-LD5-24HE-N-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 (P33344)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-24HE-N-CLWG-UNV-L750-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

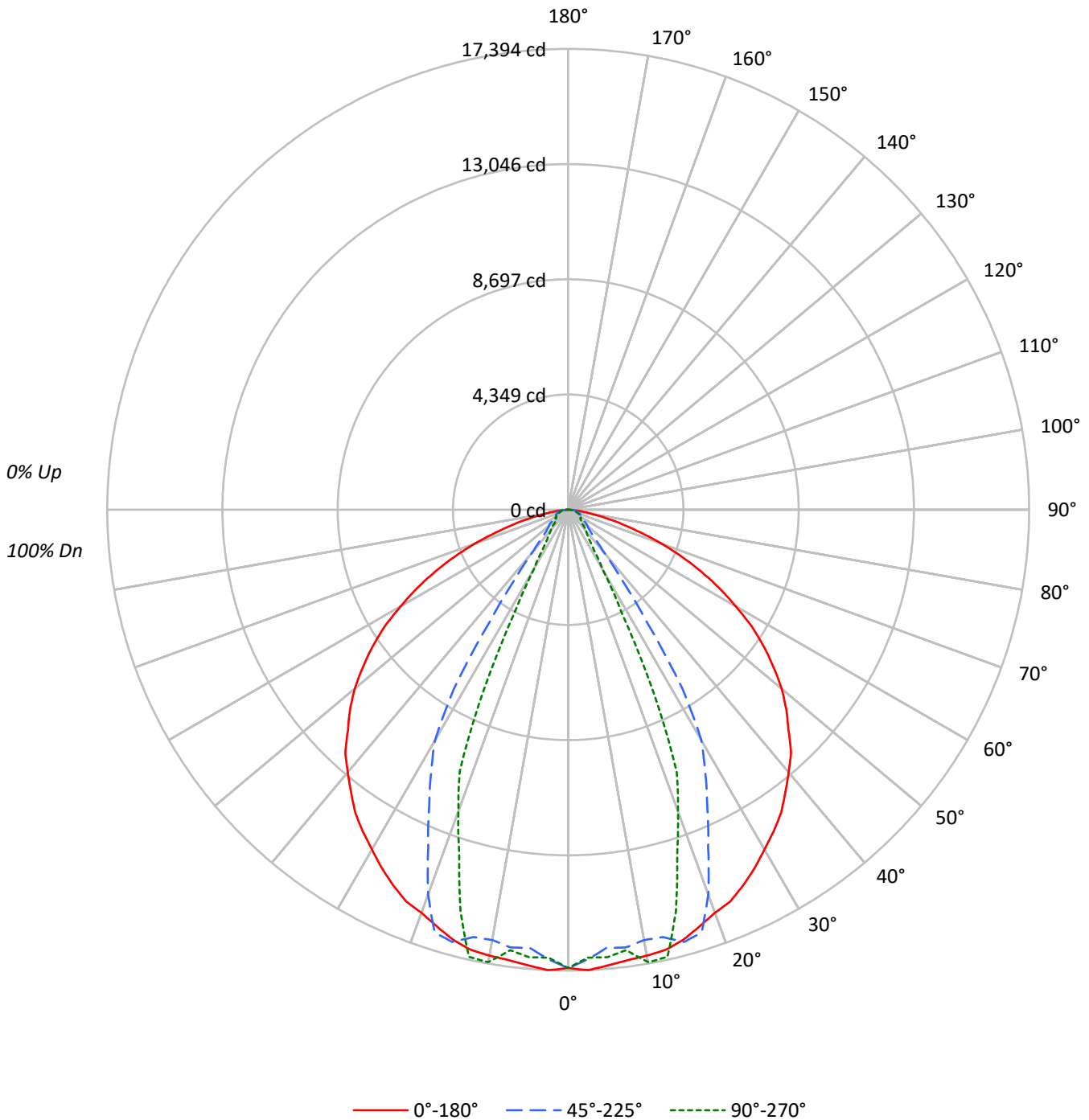
Lumens per Lamp: N/A
Luminaire Lumens: 23257.0 lumens
Efficiency: N/A
Efficacy: 159.0 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.81 / 0.91
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 146.3
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°	23277	23277	23277
5°	23315	22427	22899
10°	23349	22535	23691
15°	23401	23523	21863
20°	23179	22125	17353
25°	23213	18444	11336
30°	23005	15625	4072
35°	22981	8464	2290
40°	22720	3690	1794
45°	22369	2281	1407
50°	22021	1986	1328
55°	21155	1723	1299
60°	19628	1544	1396
65°	17643	1745	1526
70°	14796	1876	1573
75°	11062	2140	1703
80°	6947	2484	1943
85°	4625	3114	2844



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1603.5	6.9
10°-20°	4527.8	19.5
20°-30°	5544.4	23.8
30°-40°	4354.0	18.7
40°-50°	3228.8	13.9
50°-60°	1965.6	8.5
60°-70°	1177.4	5.1
70°-80°	646.0	2.8
80°-90°	209.5	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°	11675.6	50.2
0°-40°	16029.6	68.9
0°-60°	21224.0	91.3
0°-90°	23257.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	23257.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	17300	17300	17300	17300	17300	
5°	17262	16793	16605	16788	16955	###
15°	16800	16339	16887	16205	15695	4730
25°	15636	15685	12424	9745	7636	7198
35°	13991	12727	5153	1724	1394	8730
45°	11756	8441	1199	908	739	9091
55°	9018	2326	734	621	554	8025
65°	5542	686	548	515	479	5475
75°	2128	433	412	358	328	2304
85°	300	236	202	185	184	366
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	17299.7	17299.7	17299.7	17299.7	17299.7
2.5°	17394.2	17159.8	16980.3	16880.0	16920.8
5°	17262.4	16792.6	16604.8	16787.9	16954.6
7.5°	17148.2	16449.8	16662.0	16678.3	16765.7
10°	17089.9	16417.1	16494.1	16856.7	17340.5
12.5°	17012.9	16492.9	16519.7	17014.1	17286.9
15°	16799.5	16339.0	16887.0	16204.9	15695.4
17.5°	16488.3	15979.9	16733.1	14355.8	13663.3
20°	16188.6	15589.3	15451.8	12787.7	12119.6
22.5°	15995.1	15529.9	13803.2	11394.4	10704.2
25°	15636.0	15684.9	12423.9	9744.6	7635.5
27.5°	15240.7	15320.0	11204.4	6498.8	4374.5
30°	14807.0	14898.0	10057.1	3840.5	2621.0
32.5°	14414.1	13901.1	8031.9	2395.9	1822.3
35°	13990.9	12727.0	5153.3	1724.4	1394.4
37.5°	13458.1	11493.5	3262.2	1364.1	1170.6
40°	12935.7	10385.9	2101.0	1164.7	1021.3
42.5°	12447.2	9473.0	1528.5	1017.8	922.2
45°	11755.8	8441.2	1198.6	908.2	739.2
47.5°	11157.7	7231.0	1048.2	768.3	637.8
50°	10520.0	5528.7	949.0	683.2	634.3
52.5°	9763.3	3616.6	876.8	654.1	592.3
55°	9018.3	2326.0	734.5	621.4	553.8
57.5°	8213.8	1474.9	648.2	602.8	578.3
60°	7293.9	994.5	573.6	571.3	518.8
62.5°	6442.8	817.3	553.8	548.0	490.8
65°	5541.6	685.6	548.0	515.3	479.2
67.5°	4641.5	587.6	495.5	471.0	439.5
70°	3761.2	537.5	476.9	466.4	399.9
72.5°	2856.5	443.0	423.2	395.2	332.3
75°	2127.8	432.6	411.6	357.9	327.6
77.5°	1439.9	398.7	374.3	320.6	296.1
80°	896.6	366.1	320.6	281.0	250.7
82.5°	532.8	305.5	263.5	232.0	212.2
85°	299.6	235.5	201.7	185.4	184.2
87.5°	64.1	85.1	67.6	64.1	45.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)